1.1.1E. Teaching plan and work load distribution of the Departments.

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BENGALI

DEPARTMENT OF BENGALI
Academic Calendar for **ODD** SEMESTER
Session **2022 July to 2022 December**

B. A. SEMESTER-III

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-5	**Unit-I**	KABYA-KABITA ONATAK	15	3+1	Dr. Ruma Chakraborti
			8	3+1	Dr. Mrinal Ch. Halder
	Unit- II	KATHA SAHITYA	23	6+1	Prof. Dibyendu Sarkar
	Unit- III	GADYA PRABANDYA O SAMAYEK PATRA	13	3+1	Dr. Ruma Chakraborti
			10	3+1	
CC-6	**Unit-I**	BHASHA, BHASHA PORIBAR	23	6+1	Dr. Ruma Chakraborti
	Unit- II	PRACHIN BANGLAO MADYA BANGLA	23	6+1	Dr. Sampa Mondal
	Unit- III	ANTYA MADYA BANGLA O ADHUNIK BANGLA	23	6+1	Prof. Panchali Mukherjee
CC-7	**Unit-I**	UPONAYASH	23	6+1	Prof. Panchali Mukherjee
	Unit- II	UPONAYASH	23	6+1	Dr. Ruma Chakraborti
	Unit- III	CHOTO GALPO	11	3+1	Dr. Ruma Chakraborti
			12	3+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2023 January – 2023 June**

B. A. SEMESTER-IV

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-8	Unit-I	BAISHNOB PADABALI	23	6+1	Dr. Ruma Chakraborti
	Unit- II	CHANDIMANGAL (1ST PART)	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	SAKTO PADABALI	23	6+1	Prof. Panchali Mukherjee
CC-9	Unit-I	CHANDO	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	ALANKAR	23	6+1	Dr. Sampa Mondal
	Unit- III	KABYATATTA, ANUKARANTATTA	23	6+1	Dr. Ruma Chakraborti
CC-10	Unit-I	KAMALAKANTER DAPTTAR	11	3+1	Prof. Panchali Mukherjee
		EAKALER PRABANDHA SANCHANYAN	12	3+1	Dr. Mrinal Ch. Halder
	Unit- II	SAHITYA, SAMALOCHANA	11	3+1	Prof. Panchali Mukherjee
			12	3+1	Dr. Mrinal Ch. Halder
	Unit- III	CHINNAPATRA	23	6+1	Dr. Ruma Chakraborti
SEC-B-IV					
Unit-I		SRIJANSIL RACHANA	10	1+1	Prof. Panchali Mukherjee
Unit-II		BANGLA BANAN O WEST BENGAL BANGLA BANAN ACADEMI	10	1	Dr. Sampa Mondal
Unit-III		IPA O ROMIOLIPI	10	1	Dr. Ruma Chakraborti

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DEPARTMENT OF BENGALI

Academic Calendar for **ODD** SEMESTER
Session **2021 JULY – 2021 DECEMBER**

B. A. SEMESTER-I

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-1	**Unit-I**	BANGLA BHASA O SAHITYER ITIHAS, CHARJAPAD, SHREEKRISHNA KIRTAN	23	6+1	Dr. Ruma Chakraborti
	Unit- II	ANUBAD SAHITYA, BOISHNOB PADABALI, CHARIT SAHITYA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	MANGAL KABYA, PRANOY UPAKHAYAN , SAKTO PADABALI	23	6+1	Dr. Ruma Chakraborti Dr. Sampa Mondal
CC-2	**Unit-I**	DHANI, BARNA, etc	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	BANGLA BHASA, DHANI PORIBARTANER RITI, UPOBHASA	23	6+1	Prof. Panchali Mukherjee
	Unit- III	BACHAN,LINGO, PURUSH, SAMASH- etc	23	6+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2022January – 2022 June**

B. A. SEMESTER-II

BNGA

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-3	Unit-I	KABYA KABITA O NATAK- PRAHASAN	23	6+1	Dr. Ruma Chakraborti
	Unit- II	KATHA SATHIYA O SAMAYIK PATRA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	GADYA O PRABANDHA	23	6+1	Dr. Sampa Mondal
CC-4	Unit-I	KABITA	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	KATHA SATHIYA	23	6+1	Dr. Ruma Chakraborti
	Unit- III	NATAK O PRABANDHA	23	6+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI
Academic Calendar for **ODD** SEMESTER
Session **2020 July to 2020 December**

B. A. SEMESTER-V

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-11	Unit-I	KABYA-KABITA	13	3+1	Dr. Ruma Chakraborti
		NATOK	13	3+1	
	Unit- II	UPONAYAS O CHOTO GALPO	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	PROBANDHA, SAMALOCHANA	23	6+1	Dr. Ruma Chakraborti
CC-12	Unit-I	BURO SALIKER GHARE RONYA – MADHUSUDHAN DUTTA	8	2+1	Prof. Panchali Mukherjee
		MUKTODHARA- RABINDRANATH TAGORE	15	4+1	Dr. Sampa Mondal
	Unit- II	KARAGAR- MANMATHA ROY	8	2+1	Prof. Dibyendu Sarkar
		TINER TOLOYAR- UTPAL DUTTA	15	4+1	
	Unit- III	RANGAMANCHER ITIHAS	23	6+1	Dr. Ruma Chakraborti
DSE-A-5-1					
DSE-A-5-1	Unit-I	BANGLAR SAMAJ O SANSKRITIR ITIHAS	23	6+1	Dr. Mrinal Ch. Halder
	Unit- II		23	6+1	Dr. Mrinal Ch. Halder
	Unit- III		23	6+1	Dr. Sampa Mondal

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2021 January – 2021 June**

B. A. SEMESTER-VI

BNGA

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-13	Unit-I	BIRANGANA KABYA	23	6+1	Dr. Ruma Chakraborti
	Unit- II	SONAR TARI	13	3+1	Dr. Mrinal Ch. Halder
		SANCHITA	10	3+1	Dr. Ruma Chakraborti
	Unit- III	EAKALER KABITA SANCHAYAN	12	3+1	Prof. Dibyendu Sarkar
			11	3+1	Dr. Sampa Mondal
CC-14	Unit-I	SANSKRIT SAHITYA	23	6+1	Prof. Panchali Mukherjee
	Unit- II	ENGLISH LITERATURE	23	6+1	Dr. Ruma Chakraborti
	Unit- III	PRATIBASHI SAHITYA	23	6+1	Prof. Dibyendu Sarkar
					Dr. Sampa Mondal
DSE-B-6-3					
DSE-B	Unit-I	CHAITANYA BHAGABATH	23	1+1	Dr. Ruma Chakraborti
	Unit- II	JIBANSMRITI	15	6+1	Dr. Mrinal Ch. Halder
	Unit- III	DASHE BIDASHE	15	6+1	Prof. Dibyendu Sarkar

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Academic Calendar for **ODD** SEMESTER
Session **2019 July to 2019 December**

B. A. SEMESTER-III

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-5	**Unit-I**	KABYA-KABITA ONATAK	15	3+1	Dr. Ruma Chakraborti
			8	3+1	Dr. Mrinal Ch. Halder
	Unit- II	KATHA SAHITYA	23	6+1	Prof. Dibyendu Sarkar
	Unit- III	GADYA PRABANDYA O SAMAYEK PATRA	13	3+1	Dr. Ruma Chakraborti
			10	3+1	
CC-6	**Unit-I**	BHASHA, BHASHA PORIBAR	23	6+1	Dr. Ruma Chakraborti
	Unit- II	PRACHIN BANGLAO MADYA BANGLA	23	6+1	Dr. Sampa Mondal
	Unit- III	ANTYA MADYA BANGLA O ADHUNIK BANGLA	23	6+1	Prof. Panchali Mukherjee
CC-7	**Unit-I**	UPONAYASH	23	6+1	Prof. Panchali Mukherjee
	Unit- II	UPONAYASH	23	6+1	Dr. Ruma Chakraborti
	Unit- III	CHOTO GALPO	11	3+1	Dr. Ruma Chakraborti
			12	3+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2020 January – 2020 June**

B. A. SEMESTER-IV

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-8	Unit-I	BAISHNOB PADABALI	23	6+1	Dr. Ruma Chakraborti
	Unit- II	CHANDIMANGAL (1ST PART)	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	SAKTO PADABALI	23	6+1	Prof. Panchali Mukherjee
CC-9	Unit-I	CHANDO	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	ALANKAR	23	6+1	Dr. Sampa Mondal
	Unit- III	KABYATATTA, ANUKARANTATTA	23	6+1	Dr. Ruma Chakraborti
CC-10	Unit-I	KAMALAKANTER DAPTTAR	11	3+1	Prof. Panchali Mukherjee
		EAKALER PRABANDHA SANCHANYAN	12	3+1	Dr. Mrinal Ch. Halder
	Unit- II	SAHITYA, SAMALOCHANA	11	3+1	Prof. Panchali Mukherjee
			12	3+1	Dr. Mrinal Ch. Halder
	Unit- III	CHINNAPATRA	23	6+1	Dr. Ruma Chakraborti
SEC-B-IV					
Unit-I		SRIJANSIL RACHANA	10	1+1	Prof. Panchali Mukherjee
Unit-II		BANGLA BANAN O WEST BENGAL BANGLA BANAN ACADEMI	10	1	Dr. Sampa Mondal
Unit-III		IPA O ROMIOLIPI	10	1	Dr. Ruma Chakraborti

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DEPARTMENT OF BENGALI

Academic Calendar for **ODD** SEMESTER
Session **2018 JULY – 2018 DECEMBER**

B. A. SEMESTER-I

BNGA					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-1	**Unit-I**	BANGLA BHASA O SAHITYER ITIHAS, CHARJAPAD, SHREEKRISHNA KIRTAN	23	6+1	Dr. Ruma Chakraborti
	Unit- II	ANUBAD SAHITYA, BOISHNOB PADABALI, CHARIT SAHITYA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	MANGAL KABYA, PRANOY UPAKHAYAN , SAKTO PADABALI	23	6+1	Dr. Ruma Chakraborti Dr. Sampa Mondal
CC-2	**Unit-I**	DHANI, BARNA, etc	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	BANGLA BHASA, DHANI PORIBARTANER RITI, UPOBHASA	23	6+1	Prof. Panchali Mukherjee
	Unit- III	BACHAN,LINGO, PURUSH, SAMASH- etc	23	6+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2019 January – 2019 June**

B. A. SEMESTER-II

BNGA

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-3	Unit-I	KABYA KABITA O NATAK- PRAHASAN	23	6+1	Dr. Ruma Chakraborti
	Unit- II	KATHA SATHIYA O SAMAYIK PATRA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	GADYA O PRABANDHA	23	6+1	Dr. Sampa Mondal
CC-4	Unit-I	KABITA	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	KATHA SATHIYA	23	6+1	Dr. Ruma Chakraborti
	Unit- III	NATAK O PRABANDHA	23	6+1	Dr. Mrinal Ch. Halder

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2022January – 2022 June**

B. A. SEMESTER-II

BNGG

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
DSE-B-6-2					
DSE-B-6-2	**Unit-I**	LOKO SANASKRITI O LOKO SAHITYA, TYPEO MOTIF, INDEX – BANGLAR BRATA	23	6+1	Dr. Ruma Chakraborti
	Unit-II	LOKO CHARA O LOKONRITYA O DHANDA	23	6+1	Dr. Mrinal Ch. Halder
	Unit-III	BANGLAR PROBAD ,LOKO GAN, LOKO KATHA	23	6+1	Prof. Panchali Mukherjee
LCC(2)-6					
LCC(2)-6	**Unit-I**	SAMAYIK PATRA	23	6+1	Dr. Sampa Mondal
	Unit-II	UPANAYAS	23	6+1	Dr. Ruma Chakraborti Dr. Mrinal Ch. Halder
	Unit-III	EAKALER CHATAGALPA	23	6+1	Prof. Dibyendu Sarkar

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DEPARTMENT OF BENGALI
Academic Calendar for **ODD** SEMESTER
Session **2022 July to 2022 December**

B. A. SEMESTER-III

BNGG

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-GE-3	**Unit-I**	BOISNOB PADABALI	23	6+1	Dr. Ruma Chakraborti
	Unit- II	ADHUNIK KABITA-PUNASCHA, EAKALER KABITA SANCHAYAN	10	3+1	Dr. Mrinal Ch. Halder
			13	3+1	Prof. Panchali Mukherjee
	Unit- III	RAJA O RANI	23	6+1	Dr. Sampa Mondal

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
Session **2021 January – 2021 June**

B. A. SEMESTER-VI

BNGG

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
DSE-B-6-2					
DSE-B-6-2	Unit-I	LOKO SANASKRITI O LOKO SAHITYA, TYPEO MOTIF, INDEX – BANGLAR BRATA	23	6+1	Dr. Ruma Chakraborti
	Unit-II	LOKO CHARA O LOKONRITYA O DHANDA	23	6+1	Dr. Mrinal Ch. Halder
	Unit-III	BANGLAR PROBAD ,LOKO GAN, LOKO KATHA	23	6+1	Prof. Panchali Mukherjee
LCC(2)-6					
LCC(2)-6	Unit-I	SAMAYIK PATRA	23	6+1	Dr. Sampa Mondal
	Unit-II	UPANAYAS	23	6+1	Dr. Ruma Chakraborti Dr. Mrinal Ch. Halder
	Unit-III	EAKALER CHATAGALPA	23	6+1	Prof. Dibyendu Sarkar

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DEPARTMENT OF BENGALI

Academic Calendar for **ODD** SEMESTER
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B. A. SEMESTER-I

BNGG

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-1	Unit-I	GADYA O PRABANDHA	23	6+1	Dr. Ruma Chakraborti
	Unit- II	KABYA O KABITA	13	3+1	Dr. Mrinal Ch. Halder
		NATOK	10	3+1	Prof. Dibyendu Sarkar
	Unit- III	UPONASH O CHATA GALPA	23	6+1	Dr. Sampa Mondal

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
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B. A. SEMESTER-IV

BNGG

Paper	Unit	Unit/Chapters	No. of Lectures/ week		To Be Taken By
			TH	TU+IA	
CC-GE-4	**Unit-I**	UPANAYAS	23	6+1	Dr. Ruma Chakraborti
	Unit- II	EAKALER CHATA GALPA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	PRABANDHA	23	6+1	Dr. Ruma Chakraborti Dr. Mrinal Ch. Halder
LCC(2)-4					
LCC(2)-4	**Unit-I**	BANGLA BHASA BIGAYAN	23	6+1	Prof. Dibyendu Sarkar
	Unit- II	SAHITYER RUPVED	23	6+1	Dr. Sampa Mondal
	Unit- III	MEGHNATHBADH KABYA- 1ST UNIT	23	6+1	Prof. Panchali Mukherjee

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Academic Calendar for **ODD** SEMESTER
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B. A. SEMESTER-V

BNGG					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
DSE-A-5					
DSE-A-5	**Unit-I**	SAJARUR KANTA	23	6+1	Dr. Ruma Chakraborti
	Unit-II	SANKU SAMAGRA	23	6+1	Dr. Mrinal Ch. Halder
	Unit-III	SAB BHUTURE	23	6+1	Prof. Dibyendu Sarkar

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DEPARTMENT OF BENGALI

Academic Calendar for **ODD** SEMESTERSession

2018 JULY – 2018 DECEMBER

B. A. SEMESTER-1

BNGG					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-1	**Unit-I**	GADYA O PRABANDHA	23	6+1	Dr. Ruma Chakraborti
	Unit- II	KABYA O KABITA	13	3+1	Dr. Mrinal Ch. Halder
		NATOK	10	3+1	Prof. Dibyendu Sarkar
	Unit- III	UPONASH O CHATA GALPA	23	6+1	Dr. Sampa Mondal

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DEPARTMENT OF BENGALI Academic
Calendarfor **EVEN** SEMESTER
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B. A. SEMESTER-II

BNGG					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-GE-2	**Unit-I**	OAITIHASIK BHASA BIGAYAN	23	6+1	Dr. Ruma Chakraborti
	Unit- II	CHANDA	23	6+1	Dr. Mrinal Ch. Halder
	Unit- III	ALANKAR	23	6+1	Dr. Sampa Mondal Prof. Dibyendu Sarkar

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Kolkata - 700 094

DEPARTMENT OF BENGALI

Academic Calendar for **ODD** SEMESTERSession

2018 JULY – 2018 DECEMBER

B. A. SEMESTER-1

BNGG					
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**		**To Be Taken By**
			TH	TU+IA	
CC-1	**Unit-I**	GADYA O PRABANDHA	23	6+1	Dr. Ruma Chakraborti
	Unit- II	KABYA O KABITA	13	3+1	Dr. Mrinal Ch. Halder
		NATOK	10	3+1	Prof. Dibyendu Sarkar
	Unit- III	UPONASH O CHATA GALPA	23	6+1	Dr. Sampa Mondal

NB:

SMV : Sammilani Mahavidyalaya

Mrinal Ch. Halder

DR. MRINAL CH. HALDER
DEPT. OF BENGALI

Head, Department of Bengali
Sammilani Mahavidyalaya

ATTESTED

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Kolkata - 700 094

EDUCATION

Department of Education

Teaching plan (2022-23) ODD SEMESTER
HONOURSE COURSE UNDER CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
I	.CC1 Introduction to Education	1. Concept of Education	1	MB
		2. Factors of Education	1	ST
		3. Agencies of Education	2	ST
		4. Child Centricism and Play-way in Education	2	AG
	CC 2 History of Indian Education	1. Education in India during ancient and medieval period	1	ST
		2. Education in India during British period (1800-1853)	2	MC
		3. Education in India during British period (1854-1946)	2	MC
		4. Education in India after independence	1	ST
III	CC5 Sociological Foundation of Education	1. Introductory Concept of Sociology of Education	1	ST
		2. Social Groups	2	ST
		3. Social Change and Education	1	ST
		4. Social Communication in Education	2	ST
	CC6 Educational Organization, Management and Planning	1. Organization and Management	1	MB
		2. Educational organization	1	MB
		3. Educational Management	2	MB
		4. Educational Planning	2	MB
	CC7: Guidance and Counselling	1. Guidance – Meaning, Functions, Need	2	MC
		2. Guidance - Educational, Vocational, Personal	1	MC
		3. Counselling – Meaning, Techniques, Types	1	MC
		4. Basic data necessary for Guidance	2	MC
	SEC – A Communication Skill	1. Introduction to Communication 2. Listening Skills	1	AG
		3. Speaking Skills 4. Reading and	1	AG

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Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
V	CC11 Evaluation and Measurement in Education	1. Measurement and Evaluation in Education	1	MB
		2. Evaluation Process	1	MB
		3. Tools and Techniques of Evaluation	2	MB
		4. Criteria of a Good Tool and its Construction	2	MB
	CC 12 Statistics In Education	1. Concept of Statistics and Descriptive Statistics	2	MC
		2. Normal Distribution and Derived Score	1	MC
		3. Measure of Relationship	1	MC
		4 Statistics (Practical)	2	MC
	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	ST
		4 = Indian Educators (Part 2)	2	ST
	DSE B Teacher Education	1 Basic concept of teacher education	2	AG
		2 Development of teacher education in India	1	AG
		3 Role of the different agencies in teacher education	2	AG
		4 Some Courses for preparation of teacher	1	AG

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
I	CC– 1/GE – 1 Introduction to Education	1 3Concept of Education	1	MB
		2 Factors of Education	1	MC
		3 Agencies of Education	2	ST
		4 Child Centricism and Play-way in Education	2	ST
III	CC – 3/GE – 3 Sociological Foundation of Education	1 Introductory Concept of Sociology of Education	1	ST
		2 4Social Groups	2	ST
		3 Social Change and Education	1	MB
		4 Social Communication in Education	2	MB
	SEC-A (Semester – 3 / 5) Communication Skill	1. Introduction to Communication Listening Skills	1	AG
		2. Speaking Skills Reading and Writing Skills	1	AG
V	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	MB
		4 = Indian Educators (Part 2)	2	AG

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		3. Skills of Teaching (Basic Concept) 4. Learning Design (LD)	1	AG

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
VI	CC13 Psychology of Adjustment	1.Adjustment, Maladjustment and Problem Behaviour	2	MB
		2. Multi-axial Classification of Mental Disorders	1	MB
		3. Coping Strategies for Stressful Situation	1	MB
		4. Administration, Scoring and Interpretation of the following Tests (Practical)	2	AG
	CC 14Basic Concept of Educational Research	1. Concept of Educational Research	2	MC
		2. Basic elements of educational research	2	MC
		3. Data collection procedure	1	MC
		4 Tutorial (Project/Term Paper centric)	1	MC
	DSE – A Gender and Society	1. Gender Concepts	1	AG
		2. Gender Socialization	2	AG
		3. Gender roles	1	AG
		4.Gender inequality in the schools	2	AG
	DSE – B Women Education	1 Historical Perspectives of Women Education	2	ST
		2 Policy Perspective, Committee and Commission on Women Education	1	ST
		3 Role of Indian Thinkers in promoting Women Education	2	ST
		4 Major Constraints of Women Education and Women Empowerment	1	ST

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC – 2/GE – 2 Psychological Foundation of Education	2. Relation between Psychology and Education	1	MB
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	AG
		4 Intelligence	1	
IV	CC– 4/GE – 4 Inclusive Education	Inclusion Overview	1	ST
		Differently Abled	2	AG
		Socially Disabled	2	MB
		Educational Reforms for Inclusive Society.	1	MB
	SEC–B (Semester – 4 / 6) Teaching Skill	5. Understanding Teaching 5 Types of Teaching (Concept and Characteristics)	1	AG
		6. Skills of Teaching (Basic Concept) 6 Learning Design (LD)	1	AG
VI	CC – 9 Curriculum Studies	5. Introductory concept	1	MB
		6. Content selection	1	MB
		7. Curriculum development	2	MB
		8. Evaluation & reform of curriculum	2	MB
	DSE – B Women Education	5. 1 Historical Perspectives of Women Education	2	MC
		6. 2 Policy Perspective, Committee and Commission on Women Education	1	ST
		7. 3 Role of Indian Thinkers in promoting Women Education	2	ST
		8. 4 Major Constraints of Women Education and Women Empowerment	1	ST

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Teaching plan (2021-22) ODD SEMESTER
HONOURSE COURSE UNDER CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
I	CC1 Introduction to Education	1. Concept of Education	1	MB
		2. Factors of Education	1	ST
		3. Agencies of Education	2	ST
		4. Child Centricism and Play-way in Education	2	AG
	CC 2 History of Indian Education	1. Education in India during ancient and medieval period	1	ST
		2. Education in India during British period (1800-1853)	2	MC
		3. Education in India during British period (1854-1946)	2	MC
		4. Education in India after independence	1	ST
III	CC5 Sociological Foundation of Education	1. Introductory Concept of Sociology of Education	1	ST
		2. Social Groups	2	ST
		3. Social Change and Education	1	ST
		4. Social Communication in Education	2	ST
	CC6 Educational Organization, Management and Planning	1. Organization and Management	1	MB
		2. Educational organization	1	MB
		3. Educational Management	2	MB
		4. Educational Planning	2	MB
	CC7: Guidance and Counselling	1. Guidance – Meaning, Functions, Need	2	MC
		2. Guidance - Educational, Vocational, Personal	1	MC
		3. Counselling – Meaning, Techniques, Types	1	MC
		4. Basic data necessary for Guidance	2	MC
	SEC – A Communication Skill	1. Introduction to Communication 2. Listening Skills	1	AG
		3. Speaking Skills 4. Reading and Writing Skills	1	AG

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Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
V	CC11 Evaluation and Measurement in Education	1. Measurement and Evaluation in Education	1	MB
		2. Evaluation Process	1	MB
		3. Tools and Techniques of Evaluation	2	MB
		4. Criteria of a Good Tool and its Construction	2	MB
	CC 12 Statistics In Education	1. Concept of Statistics and Descriptive Statistics	2	MC
		2. Normal Distribution and Derived Score	1	MC
		3. Measure of Relationship	1	MC
		4 Statistics (Practical)	2	MC
	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	ST
		4 = Indian Educators (Part 2)	2	ST
	DSE B Teacher Education	1 Basic concept of teacher education	2	AG
		2 Development of teacher education in India	1	AG
		3 Role of the different agencies in teacher education	2	AG
		4 Some Courses for preparation of teacher	1	AG

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
I	CC– 1/GE – 1 Introduction to Education	1 3Concept of Education	1	MB
		2 Factors of Education	1	MC
		3 Agencies of Education	2	ST
		4 Child Centricism and Play-way in Education	2	ST
III	CC – 3/GE – 3 Sociological Foundation of Education	1 Introductory Concept of Sociology of Education	1	ST
		2 4Social Groups	2	ST
		3 Social Change and Education	1	MB
		4 Social Communication in Education	2	MB
	SEC-A (Semester – 3 / 5) Communication Skill	1. Introduction to Communication Listening Skills	1	AG
		2. Speaking Skills Reading and Writing Skills	1	AG
V	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	MB
		4 = Indian Educators (Part 2)	2	AG

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EVEN SEMESTER (2021-22)

HONOURSE COURSE (EDCA) UNDER CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC3: Psychological Foundation of Education	1. Relation between Psychology and Education	1	AG
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	MC
		4 Intelligence	1	MC
	CC4Philosophical Foundation of Education	1. Concept of educational Philosophy	1	ST
		2. Indian schools of philosophy	2	ST
		3. Western schools of philosophy	2	MB
		4 Philosophy for development of humanity	1	MB
IV	CC-8 Technology in Education	1 Introductory concept	1	MC
		2 Computer in education and communication	1	MC
		3 Instructional techniques	2	MC
		4 ICT & e-learning	2	MC
	CC – 9 Curriculum Studies	1. Introductory concept	1	MB
		2. Content selection	1	MB
		3. Curriculum development	2	MB
		4. Evaluation & reform of curriculum	2	MB
	CC10 Inclusive Education	1. Inclusion Overview	1	ST
		2. Differently Abled	2	ST
		3. Socially Disabled	1	ST
		4. Educational Reforms for Inclusive Society.	2	ST
	SEC – B Teaching Skill	1. Understanding Teaching 2. Types of Teaching (Concept and Characteristics)	1	AG

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		3. Skills of Teaching (Basic Concept) 4. Learning Design (LD)	1	AG

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
VI	CC13 Psychology of Adjustment	1.Adjustment, Maladjustment and Problem Behaviour	2	MB
		2. Multi-axial Classification of Mental Disorders	1	MB
		3. Coping Strategies for Stressful Situation	1	MB
		4. Administration, Scoring and Interpretation of the following Tests (Practical)	2	AG
	CC 14Basic Concept of Educational Research	1. Concept of Educational Research	2	MC
		2. Basic elements of educational research	2	MC
		3. Data collection procedure	1	MC
		4 Tutorial (Project/Term Paper centric)	1	MC
	DSE – A Gender and Society	1. Gender Concepts	1	AG
		2. Gender Socialization	2	AG
		3. Gender roles	1	AG
		4.Gender inequality in the schools	2	AG
	DSE – B Women Education	1 Historical Perspectives of Women Education	2	ST
		2 Policy Perspective, Committee and Commission on Women Education	1	ST
		3 Role of Indian Thinkers in promoting Women Education	2	ST
		4 Major Constraints of Women Education and Women Empowerment	1	ST

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC – 2/GE – 2 Psychological Foundation of Education	2. Relation between Psychology and Education	1	MB
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	AG
		4 Intelligence	1	
IV	CC– 4/GE – 4 Inclusive Education	Inclusion Overview	1	ST
		Differently Abled	2	AG
		Socially Disabled	2	MB
		Educational Reforms for Inclusive Society.	1	MB
	SEC–B (Semester – 4 / 6) Teaching Skill	5. Understanding Teaching 5 Types of Teaching (Concept and Characteristics)	1	AG
		6. Skills of Teaching (Basic Concept) 6 Learning Design (LD)	1	AG
VI	CC – 9 Curriculum Studies	5. Introductory concept	1	MB
		6. Content selection	1	MB
		7. Curriculum development	2	MB
		8. Evaluation & reform of curriculum	2	MB
	DSE – B Women Education	5. 1 Historical Perspectives of Women Education	2	MC
		6. 2 Policy Perspective, Committee and Commission on Women Education	1	ST
		7. 3 Role of Indian Thinkers in promoting Women Education	2	ST
		8. 4 Major Constraints of Women Education and Women Empowerment	1	ST

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Department of Education
Teaching plan (2020-21) ODD SEMESTER
HONOURSE COURSE UNDER CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
I	CC1 Introduction to Education	1. Concept of Education	1	MB
		2. Factors of Education	1	ST
		3. Agencies of Education	2	ST
		4. Child Centricism and Play-way in Education	2	SN
	CC 2 History of Indian Education	1. Education in India during ancient and medieval period	1	SN
		2. Education in India during British period (1800-1853)	2	MC
		3. Education in India during British period (1854-1946)	2	MC
		4. Education in India after independence	1	SN
III	CC5 Sociological Foundation of Education	1. Introductory Concept of Sociology of Education	1	ST
		2. Social Groups	2	ST
		3. Social Change and Education	1	SN
		4. Social Communication in Education	2	SN
	CC6 Educational Organization, Management and Planning	1. Organization and Management	1	MB
		2. Educational organization	1	MB
		3. Educational Management	2	MB
		4. Educational Planning	2	MB
	CC7: Guidance and Counselling	1. Guidance – Meaning, Functions, Need	2	MC
		2. Guidance - Educational, Vocational, Personal	1	MC
		3. Counselling – Meaning, Techniques, Types	1	MC
		4. Basic data necessary for Guidance	2	MC
	SEC – A Communication Skill	1. Introduction to Communication 2. Listening Skills	1	AG
		3. Speaking Skills 4. Reading and Writing Skills	1	AG

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Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
V	CC11 Evaluation and Measurement in Education	1. Measurement and Evaluation in Education	1	MB
		2. Evaluation Process	1	MB
		3. Tools and Techniques of Evaluation	2	MB
		4. Criteria of a Good Tool and its Construction	2	MB
	CC 12 Statistics In Education	1. Concept of Statistics and Descriptive Statistics	2	MC
		2. Normal Distribution and Derived Score	1	MC
		3. Measure of Relationship	1	MC
		4 Statistics (Practical)	2	MC
	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	ST
		4 = Indian Educators (Part 2)	2	ST
	DSE B Teacher Education	1 Basic concept of teacher education	2	SN
		2 Development of teacher education in India	1	SN
		3 Role of the different agencies in teacher education	2	AG
		4 Some Courses for preparation of teacher	1	AG

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
I	CC– 1/GE – 1 Introduction to Education	1 3Concept of Education	1	MB
		2 Factors of Education	1	MC
		3 Agencies of Education	2	ST
		4 Child Centricism and Play-way in Education	2	ST
III	CC – 3/GE – 3 Sociological Foundation of Education	1 Introductory Concept of Sociology of Education	1	ST
		2 4Social Groups	2	ST
		3 Social Change and Education	1	MB
		4 Social Communication in Education	2	MB
	SEC-A (Semester – 3 / 5) Communication Skill	1. Introduction to Communication Listening Skills	1	AG
		2. Speaking Skills Reading and Writing Skills	1	AG
V	DSE A Educational Thought of Great Educators	1.Western Educators(Part 1)	1	ST
		2. Western Educators(Part 2)	2	ST
		3. Indian Educators (Part 1)	1	SN
		4 = Indian Educators (Part 2)	2	SN

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EVEN SEMESTER (2020-21)

HONOURSE COURSE (EDCA) UNDER CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC3: Psychological Foundation of Education	1. Relation between Psychology and Education	1	AG
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	MC
		4 Intelligence	1	MC
	CC4Philosophical Foundation of Education	1. Concept of educational Philosophy	1	ST
		2. Indian schools of philosophy	2	ST
		3. Western schools of philosophy	2	SN
		4 Philosophy for development of humanity	1	MB
IV	CC-8 Technology in Education	1 Introductory concept	1	MC
		2 Computer in education and communication	1	MC
		3 Instructional techniques	2	MC
		4 ICT & e-learning	2	MC
	CC – 9 Curriculum Studies	1. Introductory concept	1	MB
		2. Content selection	1	MB
		3. Curriculum development	2	MB
		4. Evaluation & reform of curriculum	2	MB
	CC10 Inclusive Education	1. Inclusion Overview	1	ST
		2. Differently Abled	2	ST
		3. Socially Disabled	1	ST
		4. Educational Reforms for Inclusive Society.	2	ST
	SEC – B Teaching Skill	1. Understanding Teaching 2. Types of Teaching (Concept and Characteristics)	1	AG

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		3. Skills of Teaching (Basic Concept) 4. Learning Design (LD)	1	AG

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
VI	CC13 Psychology of Adjustment	1.Adjustment, Maladjustment and Problem Behaviour	2	MB
		2. Multi-axial Classification of Mental Disorders	1	MB
		3. Coping Strategies for Stressful Situation	1	MB
		4. Administration, Scoring and Interpretation of the following Tests (Practical)	2	AG
	CC 14Basic Concept of Educational Research	1. Concept of Educational Research	2	MC
		2. Basic elements of educational research	2	MC
		3. Data collection procedure	1	MC
		4 Tutorial (Project/Term Paper centric)	1	MC
	DSE – A Gender and Society	1. Gender Concepts	1	SN
		2. Gender Socialization	2	SN
		3. Gender roles	1	AG
		4.Gender inequality in the schools	2	AG
	DSE – B Women Education	1 Historical Perspectives of Women Education	2	ST
		2 Policy Perspective, Committee and Commission on Women Education	1	ST
		3 Role of Indian Thinkers in promoting Women Education	2	ST
		4 Major Constraints of Women Education and Women Empowerment	1	ST

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC – 2/GE – 2 Psychological Foundation of Education	2. Relation between Psychology and Education	1	MB
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	AG
		4 Intelligence	1	
IV	CC– 4/GE – 4 Inclusive Education	Inclusion Overview	1	ST
		Differently Abled	2	SN
		Socially Disabled	2	SN
		Educational Reforms for Inclusive Society.	1	MB
	SEC–B (Semester – 4 / 6) Teaching Skill	5. Understanding Teaching 5 Types of Teaching (Concept and Characteristics)	1	AG
		6. Skills of Teaching (Basic Concept) 6 Learning Design (LD)	1	AG
VI	CC – 9 Curriculum Studies	5. Introductory concept	1	MB
		6. Content selection	1	MB
		7. Curriculum development	2	MB
		8. Evaluation & reform of curriculum	2	MB
	DSE – B Women Education	5. 1 Historical Perspectives of Women Education	2	MC
		6. 2 Policy Perspective, Committee and Commission on Women Education	1	ST
		7. 3 Role of Indian Thinkers in promoting Women Education	2	ST
		8. 4 Major Constraints of Women Education and Women Empowerment	1	ST

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TEACHING PLAN 2019-2020
DEPARTMENT OF EDUCATION
EDUCATION HONOURS (EDCA)
CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
I	CC1 Introduction to Education	1. Concept of Education	1	SN
		2. Factors of Education	1	ST
		3. Agencies of Education	2	ST
		4. Child Centricism and Play-way in Education	2	MB
	CC 2 History of Indian Education	1. Education in India during ancient and medieval period	1	SN
		2. Education in India during British period (1800-1853)	2	MC
		3. Education in India during British period (1854-1946)	2	MC
		4. Education in India after independence	1	SN
III	CC5 Sociological Foundation of Education	Introductory Concept of Sociology of Education	1	ST
		Social Groups	2	ST
		Social Change and Education	1	SN
		Social Communication in Education	2	SN
	CC6 Educational Organization, Management and Planning	Organization and Management	1	MB
		Educational organization	1	MB
		Educational Management	2	MB
		Educational Planning	2	MB
	SEC – A Communication Skill	1. Introduction to Communication Listening Skills	1	AG
		2. Speaking Skills Reading and Writing Skills	1	AG

Marisha Chakraborti 2/8/19

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Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
II	CC3: Psychological Foundation of Education	1. Relation between Psychology and Education	1	AG
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	MC
		4 Intelligence	1	MC
	CC4 Philosophical Foundation of Education	1. Concept of educational Philosophy	1	ST
		2. Indian schools of philosophy	2	ST
		3. Western schools of philosophy	2	SN
		4 Philosophy for development of humanity	1	MB
IV	CC-8 Technology in Education	1 Introductory concept	1	MC
		2 Computer in education and communication	1	MC
		3 Instructional techniques	2	MC
		4 ICT & e-learning	2	MC
	CC – 9 Curriculum Studies	1. Introductory concept	1	MB
		2. Content selection	1	MB
		3. Curriculum development	2	MB
		4. Evaluation & reform of curriculum	2	MB
	CC10 Inclusive Education	1. Inclusion Overview	1	ST
		2. Differently Abled	2	ST
		3. Socially Disabled	1	ST
		4. Educational Reforms for Inclusive Society.	2	ST
	SEC – B Teaching Skill	1. Understanding Teaching 2. Types of Teaching (Concept and Characteristics)	1	AG
		3. Skills of Teaching (Basic Concept) 4. Learning Design (LD)	1	AG

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GENERAL COURSE UNDER CBCS SYSTEM (EDCG)

Semester	Course	Unit/ Model	No. of Lectures Alloted	Assigned Teacher
I	CC– 1/GE – 1 Introduction to Education	1 3Concept of Education	1	MB
		2 Factors of Education	1	MC
		3 Agencies of Education	2	ST
		4 Child Centricism and Play-way in Education	2	ST
III	CC – 3/GE – 3 Sociological Foundation of Education	1 Introductory Concept of Sociology of Education	1	ST
		2 4Social Groups	2	ST
		3 Social Change and Education	1	MB
		4 Social Communication in Education	2	MB
	SEC-A (Semester – 3 / 5) Communication Skill	1. Introduction to Communication Listening Skills	1	AG
		2. Speaking Skills Reading and Writing Skills	1	AG
II	CC – 2/GE – 2 Psychological Foundation of Education	2. Relation between Psychology and Education	1	MB
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	AG
		4 Intelligence	1	
IV	CC– 4/GE – 4 Inclusive Education	Inclusion Overview	1	ST
		Differently Abled	2	SN
		Socially Disabled	2	SN
		Educational Reforms for Inclusive Society.	1	MB
	SEC–B (Semester – 4 / 6) Teaching Skill	5. Understanding Teaching 5 Types of Teaching (Concept and Characteristics)	1	AG
		6. Skills of Teaching (Basic Concept) 6 Learning Design (LD)	1	AG

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1+1+1 SYSTEMEDCA

PART III

Paper	Group	Module	No. of Lecture	Assigned Teacher
PAPER- V PSYCHOLOGY OF ADJUSTMENT AND EDUCATIONAL GUIDENCE & COUNCELLING	GROUP – A Psychology of adjustment	MODULE – I 1	5	MC
		2	9	MC
		3	6	MC
		MDULE – II		
		4	9	MC
		5	11	
	GROUP-B Educational guidance and counseling. Lecture hours MODUL	MODULE – I		
		1	8	MB
		2	8	
		3	6	
		MODULE – II	20	MB
PAPER –VI EVALUATION IN EDUCATION	GROUP-A	MODULE – I		
		1,2	20	ST
		MODULE-II		
		3,4,5	20	ST
	GROUP – B Educational organization & Management Lecture Hours	MODULE- I & MODULEII	47	MC
PAPER –VII EDUCATIONAL TECHNOLOGY AND CURRICULUM	GROUP A Educational Technology	MODULE- I & MODULEII	40	AG
	GROUP-B Curriculum Studies.	MODULE I	20	AG
		MODULE II	20	ST
PAPER-VIII COMPARATIVE EDUCATION AND PRACTICAL	GROUP-A Comparative Education.	MODULE I	40	SN
	GROUP-B Practical	MODULE II	25	MC

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Paper	Module/UNIT	No. of Lecture	Assigned Teacher
PAPER IV Full Marks 100 Evaluation and Guidance in education	MODULE – I		
	1	3	MC
	2	6	
	3	8	
	MDULE – II		
	4	6	MB
	5	10	
	MODULE – III		
	6	6	MB
	7	2	AG
	8	6	
	MODULE – IV		
	9	4	ST
	10	6	

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TEACHING PLAN 2018-2019
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EDUCATION HONOURS (EDCA)
CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures Alloted per week	Assigned Teacher
I	CC1 Introduction to Education	1. Concept of Education	1	SN
		2. Factors of Education	1	ST
		3. Agencies of Education	2	ST
		4. Child Centricism and Play-way in Education	2	MB
	CC 2 History of Indian Education	1. Education in India during ancient and medieval period	1	SN
		2. Education in India during British period (1800-1853)	2	MC
		3. Education in India during British period (1854-1946)	2	MC
		4. Education in India after independence	1	SN
II	CC3: Psychological Foundation of Education	1. Relation between Psychology and Education	1	AG
		2. Stages and types of human development and their educational significance	2	AG
		3 Learning: concept and theories	2	MC
		4 Intelligence	1	MC
	CC4 Philosophical Foundation of Education	1. Concept of educational Philosophy	1	ST
		2. Indian schools of philosophy	2	ST
		3. Western schools of philosophy	2	SN
		4 Philosophy for development of humanity	1	MB

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PART II

Paper	Group	Module	No. of Lecture	Assigned Teacher
PAPER - III Development of Education in India	A: Education in Ancient, Medieval and British India.	MODULE – I 1	16	SN
		2 till Woods Despatch	25	MC
		MDULE – II Hunter Commision to Sargent Plan	20	MC
	B: Development of Education after 1947.	MODULE – I	5	SN
		1		
		2A	5	SN
		B	7	SN
		C	9	SN
		MODULE – II		
		3	9	
		4A	7	ST
		B	5	
		C	7	
PAPER –IV SOCIOLOGICAL FOUNDATION OF EDUCATION AND EDUCATIONAL ORGANIZATION & MANAGEMENT.	GROUP-A Sociological Foundation of Education	MODULE – I		
		1	5	AG
		2	10	AG
		3	6	MC
		MODULE-II		
		4	10	AG
		5	3	ST
		6	6	ST
	GROUP – B Educational organization & Management Lecture Hours	MODULE- I		
		1	6	MB
		2	10	
		3	8	
		MODULE- II		
		4	7	ST
		5	4	ST
		6	8	MC

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PART III

Paper	Group	Module	No. of Lecture	Assigned Teacher
PAPER- V PSYCHOLOGY OF ADJUSTMENT AND EDUCATIONAL GUIDENCE & COUNCELLING	GROUP – A Psychology of adjustment	MODULE – I 1	5	MC
		2	9	MC
		3	6	MC
		MDULE – II		
		4	9	MC
		5	11	
	GROUP-B Educational guidance and counseling. Lecture hours MODUL	MODULE – I		
		1	8	MB
		2	8	
		3	6	
		MODULE – II	20	MB
PAPER –VI EVALUATION IN EDUCATION	GROUP-A	MODULE – I		
		1,2	20	ST
		MODULE-II		
		3,4,5	20	ST
	GROUP – B Educational organization & Management Lecture Hours	MODULE- I & MODULEII	47	MC
PAPER –VII EDUCATIONAL TECHNOLOGY AND CURRICULUM	GROUP A Educational Technology	MODULE- I & MODULEII	40	AG
	GROUP-B Curriculum Studies.	MODULE I	20	AG
		MODULE II	20	ST
PAPER-VIII COMPARATIVE EDUCATION AND PRACTICAL	GROUP-A Comparative Education.	MODULE I	40	SN
	GROUP-B Practical	MODULE II	25	MC

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EDUCATION GENERAL

CBCS SYSTEM

Semester	Course	Unit/ Model	No. of Lectures	Assigned

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			Alloted	Teacher
I	CC– 1/GE – 1 Introduction to Education	1 3Concept of Education	1	MB
		2 Factors of Education	1	SN
		3 Agencies of Education	2	ST
		4 Child Centricism and Play-way in Education	2	AG

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PART II

Paper	Module	No. of Lecture	Assigned Teacher
Paper II Educational Psychology	MODULE – I 1	6	MC
	2	10	MC
	MDULE – II		
	3	4	AG
	4	4	MC
	5	4	AG
	MODULE – III		
	6	6	AG
	7	3	AG
	MODULE – IV		
	8	8	MC
	9	6	
Paper III Development of Education in Modern India.	MODULE – I		
	1	6	
	2	2	SN
	3	2	
	4	2	
	5	2	
	MODULE-II		
	4	10	AG
	5	3	ST
	6	6	ST
	MODULE-III		
	10	4	MB
	11	3	

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	12	4	
	13	6	
	MODULE – IV 14	4	ST
	15	4	
	6	4	

PART III EDCG

Paper	Module/UNIT	No. of Lecture	Assigned Teacher
PAPER IV Full Marks 100 Evaluation and Guidance in education	MODULE – I 1	3	MC
	2	6	
	3	8	
	MDULE – II		MB
	4	6	
	5	10	
	MODULE – III		MB
	6	6	
	7	2	AG
	8	6	
	MODULE – IV		ST
	9	4	
	10	6	

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ENGLISH

TEACHING PLAN

DEPARTMENT of ENGLISH

ACADEMIC SESSION: 2023-2024

4 YEARS HONOURS COURSE SEMESTER I MAJOR

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER	REMARKS (if any)
I	DSC I	-	1	PM	Elizabethan Period, Shakespeare, Donne
			1	PRC	Victorian & Modern Period, Yeats, Hughes
			1	MBH	Romantic Period, Keats
			1	GD	History of English Poetry
	SEC	-	1	MS	Business Communication
			2	PRC	Reports, Letters, CV
			1	PM	Minutes, E-correspondence
	AEC	-	1	PM	Poetry & Prose
			1	PRC	Poetry & Prose
			1	MBH	Poetry & Prose

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DEPARTMENT of ENGLISH

ACADEMIC SESSION: 2023-2024

3 YEARS MULTIDISCIPLINARY COURSE SEMESTER I MDC

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER	REMARKS (if any)
I	MDC 1	-	1	MBH	Romantic Period, Keats
			1	MS	Elizabethan Period, Shakespeare, Donne
			1	GD	Victorian & Modern Period, Yeats, Hughes
	SEC	-	1	MS	Business Communication
			2	PRC	Reports, Letters, CV
			1	PM	Minutes, E-correspondence
	AEC	-	1	PM	Poetry & Prose
			1	PRC	Poetry & Prose
			1	MBH	Poetry & Prose

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ACADEMIC SESSION: 2023-2024

3 YEARS HONOURS COURSE SEMESTER 3 HONOURS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER	REMARKS (if any)
III	CC5, CC6, CC7		2	PM	Hemmingway, Carroll, Webster, SEC A
			3	MS	American Poetry, Sukumar Ray, Pope
			4	MBH	Poe, Fitzgerald, Faulkner, Herge
			3	PRC	Miller, Agatha Christie, Milton, Behn
			2	GD	American Poetry. SEC A

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ACADEMIC SESSION: 2023-2024

3 YEARS GENERAL COURSE SEMESTER 3 GENERAL

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER	REMARKS (if any)
III	CC3		3	PM	Poetry
			1	PRC	Rassundari Devi
			1	GD	Begum Rokeya
	LCC L-1(1)		1	PM	Language and Communication
			1	MBH	Language Varieties
			2	MS	British English and American English
			1	GD	Report/Email
	SEC		1	PRC	Minutes, E-correspondence
			1	GD	Reports, Letters, CV

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3 YEARS GENERAL COURSE SEMESTER V GENERAL

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER	REMARKS (if any)
V	ENGG		2	PM	Poetry Gr. A, Drama
			1	GD	Poetry Gr. B, Fiction
	LCC L-1(2)		1	MS	Wordworth, Tagore, Creative Writing
			1	PRC	Tennyson, Derozio
			1	MBH	Rhetoric/Prosody
	SEC A		1	PRC	Minutes, E-correspondence
			1	GD	Reports, Letters, CV

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ACADEMIC SESSION: 2018-2019

3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester I	CC 1 & CC 2		04	SSG	CC 1: Unit A, C, F CC2: Oedipus, Horace
			04	PM	CC1: Unit B, D, E CC2: Ovid, Plautus
			03	MS	CC1: Philology Sec.1 CC2: Homer
			01	GD	CC1: Philology Sec.2
	AECC 1 Arts		01	PM	All units
			01	PRC	All units
	AECC 1 Science		01	MBH	All units
			01	GD	All units
	C.Eng. Commerce		01	GD	All units
			01	MS	All units

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ACADEMIC SESSION: 2018-2019

3 Year Honours Course

Semester/Year	Course	Unit	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Part II	Paper III & IV		2	SSG	Macbeth, Lit. Terms Drama
			4	PM	The Rivals, The Fly, Ox
			2	MS	Essays
			2	GD	Lit. Terms Fiction
			2	PRC	Edward II, Araby, Conrad
			1	MBH	A Midsummer Night's Dream

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ACADEMIC SESSION: 2018-2019

3 Year Honours Course

Semester/Year	Course	Unit	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Part III	Paper V, VI, VII, VIII		4	SSG	Victorian Poetry, Novel, Desai, Indian Short Story
			3	PM	Modern Poetry, Comedy, Indian Poetry, Dattani
			1	MS	Rhetoric & Prosody, Epic, RK Narayan
			3	GD	Writing Skills, Essays. Critical Writing
			1	PRC	Hardy, Osborne, Tragedy, Tagore
			1	MBH	Essay, Amitava Ghosh

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3 Year Honours Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester II	CC 3 & CC 4		04	SSG	Indian Poetry, Macbeth,
			04	PM	Dattani, British Poetry,
			03	MS	Bankimchandra
			01	GD	As You Like It

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester I	GE1		2	SSG	Sonnet 18, Shelley
			1	PM	Araby, Conrad
			2	MS	Wordsworth, Keats
			1	GD	Mansfield
	AECC 1		1	PM	Correction, True/False
			1	PRC	Transformation

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Part II	Paper II & III		2	PM	Hardy, Shaw
			1	PRC	Araby, Orwell
			1	MBH	Ox, Lamb, Midsummer
			1	SSG	The Fly, Benson, Lynd
			1	MS	Writing Skills, Proof Reading

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Part III	Paper IV		1	GD	Writing Skills
			3	SSG	Indian Short Story
			1	PM	Indian Poem

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester II	GE2		2	SSG	Essay
			1	PM	Hardy
			2	MS	Shakespeare
			1	GD	Shaw

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	GE2		2	SSG	Essay
			1	PM	Hardy
			2	MS	Shakespeare
			1	GD	Shaw

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ACADEMIC SESSION: 2019-2020

3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Sem I	CC 1 & 2		5	PM	CC1: Unit B, D, E CC2: Ovid, Plautus
			1	MBH	CC 1: Unit A, C, F
			2	MS	CC1: Philology Sec.1 CC2: Homer
			2	GD	CC1: Philology Sec.2
			2	SSG	CC2: Oedipus, Horace
	AECC		2	PM	All Units
			1	MS	All Units
			1	PRC	All Units

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ACADEMIC SESSION: 2019-2020

3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester III	CC5, CC6, CC7		4	PRC	Miller, Christie, Milton
			1	MBH	Pope
			3	SSG	American Poetry, Carroll, Herge
			4	PM	Hemmingway, Webster, American Short Story
			3	GD	Behn, American Poetry
			3	MS	American Story, Tintin
	SEC A2		1	PRC	Letters, CV, Email
			1	MS	Reports, Minutes

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ACADEMIC SESSION: 2019-2020

3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
PART III	Paper V, VI, VII, VIII		3	PM	Modern Poetry, Comedy, Indian Poetry, Dattani, Tragedy
			1	MBH	Essay, Amitava Ghosh, Hardy
			2	SSG	Victorian Poetry, Novel, Desai, Indian Short Story, Osborne
			3	GD	Writing Skills, Essays. Critical Writing
			2	MS	Rhetoric & Prosody, Epic, RK Narayan, Tagore

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3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Sem II	CC 3 & 4		5	PM	Dattani, British Poetry
			1	MBH	Indian Poetry
			2	MS	Bankimchandra
			2	GD	As You Like It
			2	SSG	Indian Poetry, Macbeth

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ACADEMIC SESSION: 2019-2020

3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	CC8, CC9, CC10		4	PRC	Romantic Poetry, Austen
			1	MBH	Frankenstein
			3	SSG	18th Cent Prose
			4	PM	Congreve, 19th Cent. Poetry
			3	GD	Hardy
			3	MS	18th Cent. Poetry, Romantic Non-Fiction
	SEC B1		1	PRC	Creative Writing
			1	MS	Publication Skills

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3 Year General Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester I	GE 1		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	AECC1		1	PM	Correction, True/False
			1	PRC	Transformation

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TEACHING PLAN

DEPARTMENT of ENGLISH

ACADEMIC SESSION: 2019-2020

3 Year General Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester III	GE 3		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	LCC		1	MBH	Language and Communication
			1	MS	Language Varieties
			1	GD	British English and American English
	SEC A2		1	PRC	Reports, Letters, Curriculum Vitae
			1	MS	Meeting minutes, E-correspondence

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3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Part III	Paper IV		3	SSG	Indian Short Story, Writing Skills
			1	PM	Indian Poem

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester II	GE2		2	SSG	Essay
			1	PM	Hardy
			2	MS	Shakespeare
			1	GD	Shaw

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ACADEMIC SESSION: 2018-2019

3 Year General Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	GE 4		1	MBH	Essay
			4	SSG	Citations
			1	GD	Summary
	LCC2-1		1	MBH	Poetry
			1	MS	Creative Writing
			1	GD	Figure of Speech
	SEC B		1	PRC	Publication
			1	MS	Creative Writing

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Sem I	CC 1 & 2		5	PM	CC1: Unit B, D, E CC2: Ovid, Plautus
			1	MBH	CC 1: Unit A, C, F
			2	MS	CC1: Philology Sec.1 CC2: Homer
			2	GD	CC1: Philology Sec.2
			2	SSG	CC2: Oedipus, Horace
	AECC		2	PM	All Units
			1	MS	All Units
			1	PRC	All Units

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Semester III	CC5, CC6, CC7		4	PRC	Miller, Christie, Milton
			1	MBH	Pope
			3	SSG	American Poetry, Carroll, Herge
			4	PM	Hemmingway, Webster, American Short Story
			3	GD	Behn, American Poetry
			3	MS	American Story, Tintin
	SEC A2		1	PRC	Letters, CV, Email
			1	MS	Reports, Minutes

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Semester V	CC11, CC12, DSE-A2, DSE-B 1		3	PM	Women's Poetry, Lawrence, Shaw, Tagore, Comedy
			1	MBH	Bronte, Owen, Wordsworth, Eliot Criticism,
			2	SSG	Women's Non-Fiction, Yeats, Gramsci, Coleridge
			3	PRC	Draupadi, Eliot poetry, Conrad, Tragedy
			2	MS	Bliss, Woolf, Short Story, Rhetoric & Prosody

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Sem II	CC 3 & 4		5	PM	Dattani, British Poetry
			1	MBH	Indian Poetry
			2	MS	Bankimchandra
			2	GD	As You Like It
			2	SSG	Indian Poetry, Macbeth

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	CC8, CC9, CC10		4	PRC	Romantic Poetry, Austen
			1	MBH	Frankenstein
			3	SSG	18th Cent Prose
			4	PM	Congreve, 19th Cent. Poetry
			3	GD	Hardy
			3	MS	18th Cent. Poetry, Romantic Non-Fiction
	SEC B1		1	PRC	Creative Writing
			1	MS	Publication Skills

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3 Year Honours Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester VI	CC13, CC14, DSE-A4, DSE-B3		3	PM	Ibsen, Achebe, Mass Communication, Tagore
			1	MBH	Brecht, Gandhi
			2	SSG	Beckett, Advertisements, Binodini Dasi
			3	PRC	Garcia Marquez, Nirad Chaudhuri
			2	MS	Postcol. Poetry, Pamphlets

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3 Year General Course

Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester I	GE 1		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	AECC1		1	PM	Correction, True/False
			1	PRC	Transformation

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester III	GE 3		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	LCC		1	MBH	Language and Communication
			1	MS	Language Varieties
			1	GD	British English and American English
	SEC A2		1	PRC	Reports, Letters, Curriculum Vitae
			1	MS	Meeting minutes, E-correspondence

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester V	DSE		1	MBH	Poetry
			4	SSG	Macbeth
			1	GD	Stevenson
	LCC1-2		1	MBH	Poetry, Figure of Speech
			1	MS	Creative Writing
			1	GD	Figure of Speech
	SEC A		1	PRC	Business Communication
			1	MS	Writing, Drafting Skills

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Semester II	GE2		2	SSG	Essay
			1	PM	Hardy
			2	MS	Shakespeare
			1	GD	Shaw

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	GE 4		1	MBH	Essay
			4	SSG	Citations
			1	GD	Summary
	LCC2-1		1	MBH	Poetry
			1	MS	Creative Writing
			1	GD	Figure of Speech
	SEC B		1	PRC	Publication
			1	MS	Creative Writing

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester VI	DSEB		1	MBH	Amitava Ghosh,
			4	SSG	Short Story
			1	GD	Poetry
	LCC2-2		1	MBH	RK Narayan, Sahni, Tagore
			1	MS	Bond, Chand, P. Lal
			1	GD	Ezekiel, Deshpande
	SEC B		1	PRC	Creative Writing
			1	MS	Publication Skills

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Sem I	CC 1 & 2		5	PM	CC1: Unit B, D, E CC2: Ovid, Plautus
			1	MBH	CC 1: Unit A, C, F
			2	MS	CC1: Philology Sec.1 CC2: Homer
			2	GD	CC1: Philology Sec.2
			2	SSG	CC2: Oedipus, Horace
	AECC		2	PM	All Units
			1	MS	All Units
			1	PRC	All Units

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Semester III	CC5, CC6, CC7		4	PRC	Miller, Christie, Milton
			1	MBH	Pope
			3	SSG	American Poetry, Carroll, Herge
			4	PM	Hemmingway, Webster, American Short Story
			3	GD	Behn, American Poetry
			3	MS	American Story, Tintin
	SEC A2		1	PRC	Letters, CV, Email
			1	MS	Reports, Minutes

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Semester V	CC11, CC12, DSE-A2, DSE-B 1		3	PM	Women's Poetry, Lawrence, Shaw, Tagore, Comedy
			1	MBH	Bronte, Owen, Wordsworth, Eliot Criticism,
			2	SSG	Women's Non-Fiction, Yeats, Gramsci, Coleridge
			3	PRC	Draupadi, Eliot poetry, Conrad, Tragedy
			2	MS	Bliss, Woolf, Short Story, Rhetoric & Prosody

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Sem II	CC 3 & 4		5	PM	Dattani, British Poetry
			1	MBH	Indian Poetry
			2	MS	Bankimchandra
			2	GD	As You Like It
			2	SSG	Indian Poetry, Macbeth

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester IV	CC8, CC9, CC10		4	PRC	Romantic Poetry, Austen
			1	MBH	Frankenstein
			3	SSG	18th Cent Prose
			4	PM	Congreve, 19th Cent. Poetry
			3	GD	Hardy
			3	MS	18th Cent. Poetry, Romantic Non-Fiction
	SEC B1		1	PRC	Creative Writing
			1	MS	Publication Skills

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Semester VI	CC13, CC14, DSE-A4, DSE-B3		3	PM	Ibsen, Achebe, Mass Communication, Tagore
			1	MBH	Brecht, Gandhi
			2	SSG	Beckett, Advertisements, Binodini Dasi
			3	PRC	Garcia Marquez, Nirad Chaudhuri
			2	MS	Postcol. Poetry, Pamphlets

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester I	GE 1		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	AECC1		1	PM	Correction, True/False
			1	PRC	Transformation

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Semester/ Year	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester III	GE 3		1	MBH	Wordsworth, Keats
			4	SSG	Sonnet 18, Shelley, Conrad
			1	GD	Mansfield, Araby
	LCC		1	MBH	Language and Communication
			1	MS	Language Varieties
			1	GD	British English and American English
	SEC A2		1	PRC	Reports, Letters, Curriculum Vitae
			1	MS	Meeting minutes, E-correspondence

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Semester V	DSE		1	MBH	Poetry
			4	SSG	Macbeth
			1	GD	Stevenson
	LCC1-2		1	MBH	Poetry, Figure of Speech
			1	MS	Creative Writing
			1	GD	Figure of Speech
	SEC A		1	PRC	Business Communication
			1	MS	Writing, Drafting Skills

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Semester	Course	Unit/Module	NO. OF LECTURES ALLOTED PER WEEK (Duration of each lecture is one hour)	ASSIGNED TEACHER	Syllabus Distribution
Semester II	GE2		2	SSG	Essay
			1	PM	Hardy
			2	MS	Shakespeare
			1	GD	Shaw

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Semester IV	GE 4		1	MBH	Essay
			4	SSG	Citations
			1	GD	Summary
	LCC2-1		1	MBH	Poetry
			1	MS	Creative Writing
			1	GD	Figure of Speech
	SEC B		1	PRC	Publication
			1	MS	Creative Writing

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Semester VI	DSEB		1	MBH	Amitava Ghosh,
			4	SSG	Short Story
			1	GD	Poetry
	LCC2-2		1	MBH	RK Narayan, Sahni, Tagore
			1	MS	Bond, Chand, P. Lal
			1	GD	Ezekiel, Deshpande
	SEC B		1	PRC	Creative Writing
			1	MS	Publication Skills

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FILM STUDIES

Curriculum

- Faculty wise Lesson Plan with Paper Name, Marks and Credit

ODD SEMESTER

Semester	Paper	Topic	July – December	Faculty Name
One	C C 1/ G E 1 Film Language & Cinema's Journey From Primitive To Narrative Full Marks:50 Total Credits:6 (Theory-4+Practical2)	1.Illusion of movement, Pre-cinema toys & Machines		Subrata roy
		2.Film Production, Distribution & Exhibition		Subrata royy
		3.Film form: Concept & Principle		Subrata Roy
		4. Shot: Mise-en-scene & Composition		Subrata Roy
		5.Cinematogra - phy & Lighting		Subrata Roy
		6.Editing: Continuity of time and space; Construction of scene		Subrata Roy
		7.Sound: Audio Components		Subrata Roy
		9.Silent Cinema: Primitive and Pioneers		Subrata roy
		10.Narrative Cinema, IMR, Griffith		Subrata roy
		11.Hollywood Studio Era: Film Style; Genre		Subrata roy

Three	CC III / GE III	1.Early Cinema		Su rata Roy
	Indian Cinema	2. Indian Studio System		Subrata roy
	Full Marks:50	3.Post Studio System: Melodrama		Subrata roy

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	Total Credits:6 (Theory-4+Practical2)	3.Post Studio System:Auteur Ray, Ghatak & Sen		osubrata roy
		4.Indian New Wave		Subrata roy
		5.Practical: Photography; Development of Narrative through Stills		Subrata Roy
Three	SEC A-1	1.Script Writing of Fiction Film		Subrata Roy
	Script Writing & Film Analysis	2.Concept & Development of Non-Fiction Film		Subrata Roy
	Full Marks:80	3. Dialogue Exercise		Subrata Roy
	Total Credits:2	4.Critical Analysis of Films		Subrata roy
		5.Review Writing of Hindi & Bangla Films		Subrata roy Subrata Roy
Five	Sem-5 DSE-A-2	1.Film Theory: Auteur Theory		Subrata roy
	Film Theories& Study of Bangla Cinema	2.Feminism & Queer Theory in Cinema		
	Full Marks:65	3.Bangla Cinema: Popular Melodrama		Subrata roy
	Total Credits:6 (Theory-5+Tutorial1)	4.Bangla Parallel Cinema		Subrata Roy
		5. Bangla New Wave Directors		Subrata roy

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EVEN SEMESTER

Semester	Paper	Topic	January-June	Faculty Name
Two	CC II/GE II	German Expressionism: Robert Weine & Fritz Lang		Subrata roy
	History: World Cinema	Soviet Montage: Lev Kuleshov, Vsevolod Pudovkin, Sergei Eisenstein		
	Post WW I	Surrealism: Luis Bunuel		Subrata roy
	&	Silent Comedy: Chaplin		Subrata Roy
	Post WW II	Italian Neo-Realism: Roberto Rossellini & Vittorio De Sica		Subrata Roy
	Full Marks:50	French New Wave: Francois Truffaut & Jean Luc Godard		Subrata Toy
	Total Credits:6 (Theory-4+Practical2)	Japanese Cinema: Ozu, Akira Kurosawa & Mizoguchi		Subrata Toy
		Practical: Making of a short fiction film of 3 minutes duration by a group of around 5 students. There will be no dialogue. Only background music & effect sound may be used.		Subrata roy
Four	CC IV/GE IV	Ethics & Aesthetics of documentary 2 Hours		Subrata roy
	India & Rest of the World: Historical Journey	World Documentary		Subrata roy
	Full Marks:50	Indian Documentary		ysubrata roy
	Total Credits:6 (Theory4+Practical2)	Film analysis: Night & Fog; Rabindranath, Planet Earth (TV Series)		Subrata Roy
		Practical: Making of a Documentary Film of maximum 5 minutes by a group of around 5 students. a) Decide upon a concept. b) Research work on the concept. c) Shooting & editing based on the research work.		Subrata Roy
Four	SEC A 2 Videography	. Videography a) Brief History and how it differs from		Subrata Roy

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	& Editing Full Marks:80 Total Credits:2	Cinematography b) Basics of video cameras, their operations and its application. c) Visual Composition – Shots, Angles, and Camera Movements. d) Basic Rules of Framing – Rule of third, Point of view shots/ Over the shoulder/ Suggestion-preference/ Two shot etc e) Importance of Continuity, cutaways, Filler, Reaction shots. f) Role of Gears – Tripod, Monopod, Slider, Crane etc. g) Basics of lighting techniques		
		Editing a) Basic idea of video editing b) Different stages of Editing Process – sorting, assemble, rough cut, final cut c) Basic concept of Continuity, 180 Degree Rule d) Editing of different scenes e) Introduction to Editing Software f) Basics of sound editing		Subrata roy
Six	Sem-6 DSE B	Globalisation & Bollywood		Subrata roy
	Globalisation & Bollywood, Study of Iranian Cinema	Iranian Cinema: Jafar Panahi, Abbas Kirostami		Subrata roy
	Full Marks:50 Total Credits:6 (Theory4+Practical2)	Practical: 60 Hours Making of a narrative film of 1 minute duration with maximum 8 shots by each group of students comprising of maximum 5 students.		~~Sandhya Dutta Roy~~ ~~Sukanta Ba~~ Subrata Roy

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TEACHING PLAN FOR SEM I, III (1) & V (CBCS), 2021-2022 (July 21 to Dec, 21)

HISTORY

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS
I (CBCS)	B.A, HISA	CC 1	HISTORY OF INDIA FROM THE EARLIEST TIMES TO c300B.C.	KK = Module I, II, III RB = Module IV.
	B.A, HISA	CC 2	SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN INDIA	AMB = Module I, II, III, IV AC = Module V & VI.
	B.A, HISA	CC/GE-1	HISTORY OF INDIA FROM THE EARLIEST TIMES UPTO 300 C.E.	BG = Module I, II, III KK = Module IV, V, VI AMB = Module VII to XII.
III (CBCS)	B.A, HISA	CC 5	HISTORY OF INDIA (CE 750 - 1206)	RB (All Modules)
	B.A, HISA	CC 6	RISE OF THE MODERN WEST-I	KK = Module I, II, III AMB = Module IV, V, VI
	B.A, HISA	CC 7	HISTORY OF INDIA	BG (All Modules)
	B.A, HISA	SEC A1	ARCHIVES & MUSEUM ~~HISTORICAL TOURISM~~	KK (All Modules)
III (CBCS)	B.A, HISA	CC/GE-3	HISTORY OF INDIA (1206 - 1704)	AC (All Modules)
	B.A, HISA	SEC A4	HISTORICAL TOURISM	KK (All Modules)

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SEM	PROGRAMME	COURSE	TOPICS	TEACHERS
V (CBCS)	B.A, HISA	CC 11	HISTORY OF MODERN EUROPE (c 1780 – 1939)	BG = Module I to IV. AMB = Module V & VI.
	B.A, HISA	CC 12	HISTORY OF INDIA (C 1750 – 1857)	AC = (All Modules)
	B.A, HISA	DSE A1	HISTORY OF BENGAL (c 1757 – 1905)	RB (All Modules)
	B.A, HISA	DSE B1	HISTORY OF MODERN EAST ASIA – I CHINA (C 1840 – 1949)	KK (All Modules)
V (CBCS)	B.A, HISA	DSE A 2	SOME ASPECTS OF EUROPEAN HISTORY (c 1780 – 1945)	BG (All Modules)
		SEC A1	HISTORICAL TOURISM	KK (All Modules)

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TEACHING PLAN FOR SEM II, IV, VI (CBCS), 2021-22 (Jan'22 to June'22)

Sem	Programme	Course	Topics	Teachers
II CBCS	B.A, HISA	CC 3	HISTORY OF INDIA (c 300 BCE to c 750 C.E)	RB = Module I, II, V BG = Module III, IV.
II	B.A, HISA	CC 4	SOCIAL FORMATION & CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN INDIA. (GROUP B & C)	AC = Module III, IV, V of Grp. B AMB & KK = Grp. C.
II	B.A HISG	CC/GE 2	HISTORY OF INDIA (FROM C 300 - 1206)	RB = Module I to V AC = Module VI, VII, VIII
IV CBCS	B.A, HISA	CC 8	RISE OF THE MODERN WEST-II	KK (All Modules)
	B.A, HISA	CC 9	HISTORY OF INDIA (c 1526-1605)	BG (All Modules)
IV	B.A, HISA	CC 10	HISTORY OF INDIA (c 1605 — 1750)	RB = Module I to IV AMB = Module V, VI
	B.A, HISA	SEC B 2	ART APPRECIATION : AN INTRODUCTION TO INDIAN ART.	AC (All Modules)
IV	B.A, HISG	CC/GE 4	HISTORY OF INDIA (1707 - 1950)	KK = Module I to VI AMB = Module VII to IX
IV	B.A, HISG	SEC B1	MUSEUM & ARCHIVES IN INDIA	AMB = All Modules

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TEACHING PLAN FOR SEM II, IV (4), VI (CBCS), 2021-22 (Jan'22 to June'22)

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS
VI (CBCS)	B.A, HISA	CC 13	HISTORY OF INDIA (C 1857 to 1964)	AC = Module V to VII RB = Module I to IV
	B.A, HISA	CC 14	HISTORY OF WORLD POLITICS (1945 to 1994)	AMB (All Modules)
	B.A, HISA	DSE A 3	HISTORY OF BENGAL (1905 to 1947)	BG (All Modules)
	B.A, HISA	DSE B 3	HISTORY OF MODERN EAST ASIA - II JAPAN	KK (All Modules)
VI (CBCS)	BA, HISG	DSE B2	SOME ASPECTS OF SOCIETY & ECONOMY OF MODERN EUROPE: 15th to 18th CENTURY	AMB = Module I to IV AC = Module V to VII
	B.A, HISG	SEC B1	MUSEUMS & ARCHIVES IN INDIA: THEORY & PRACTICES	AMB (All Modules)

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TEACHING PLAN FOR SEM. I, III & V (CBCS), 2020-2021 (July '20 to Dec '20)

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS ASSIGNED
I CBCS	B.A, HISA	CC 1	HISTORY OF INDIA FROM THE EARLIEST TIMES TO C 300 B.C.	KK = Module I, II, III RB = Module IV.
	B.A, HISA	CC 2	SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN INDIA.	AMB = Module I & II. RB = Module III & IV. AC = Module V & VI.
	B.A, HISG	CC/GE 1	HISTORY OF INDIA FROM THE EARLIEST TIMES UPTO 300 C.E.	RB = Module I to IV AMB = Module V, VI, VII, VIII AC = Module IX to XII
III CBCS	B.A, HISA	CC 5	HISTORY OF INDIA (CE 750–1206)	RB = Module I & II AC = Module III & IV AMB = Module V only.
	B.A, HISA	CC 6	RISE OF THE MODERN WEST – I CHINA.	KK = All Modules
	B.A, HISA	CC 7	HISTORY OF INDIA	BG = All Modules
	B.A, HISA	SEC A(1)	ARCHIVES & MUSEUMS	AMB (All Modules)
	B.A, HISG	CC/GE 3	HISTORY OF INDIA FROM 1206 TO 1707	BG = Module I, II, III, KK = Module IV, V, RB = Module VI to VIII, AC = Module VIII & IX.
	B.A, HISG	SEC A 1	HISTORICAL TOURISM: THEORY & PRACTICE	KK (All Modules)
V CBCS	B.A, HISA	CC 11	HISTORY OF MODERN EUROPE (C 1780 – 1939)	BG (All Modules)
	B.A, HISA	CC 12	HISTORY OF INDIA (C 1750 – 1857)	AC = Module I to IV BG = Module VI. KK = Module V.
	B.A, HISA	DSE A 1	HISTORY OF BENGAL (C. 1757–1905)	RB = Module I to IV AMB = Module V to VII

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(2) 2020-2021

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS ASSIGNED
V CBCS	B.A, HISA	DSEB1	HISTORY OF MODERN EAST ASIA – I CHINA (c1840-1949)	KK (All Modules)
V CBCS	B.A, HISG	DSEA2	SOME ASPECTS OF EUROPEAN HISTORY (c 1780 – 1945)	BG = Module I to V AMB = Module VI to VIII
	B.A, HISG	SECA1	HISTORICAL TOURISM: THEORY & PRACTICE	AMB (All Modules)

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TEACHING PLAN FOR SEM II, IV (3) & VI (CBCS), 2020-2021 [January 2021 – June 2021]

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS ASSIGNED
II	B.A, HISA	CC 3	HISTORY OF INDIA c 300BCE TO c750 CE.	MODULE 1 = AMB, 2&3 = BG, 4&5 = RB = TOTAL 5 Modules
	B.A, HISA	CC 4	SOCIAL FORMATIONS & CULTURAL PATTERNS OF THE MEDIEVAL WORLD, OTHER THAN INDIA [GROUP B & C]	→ GROUP B IV = KK, → GROUP B III, V & GRP. C = AC
	B.A, HISG	CC/GE 2	HISTORY OF INDIA FROM C 300 – 1206	MODULE I to V = KK MODULE VI to VIII = AC
IV	B.A, HISA	CC 8	RISE OF THE MODERN WEST-II	→ MODULE 1 & 2 = AMB → MODULE 3,4,5,6 = KK
	B.A, HISA	CC 9	HISTORY OF INDIA (C1526-1605)	→ MODULE I to V = BG, → MODULE VI = AMB.
	B.A, HISA	CC 10	HISTORY OF INDIA (C1605-1750)	→ MODULE I, II, III = BG MODULE IV, V, VI = RB
	B.A, HISA	SEC B(2)	ART APPRECIATION: AN INTRODUCTION TO INDIAN ART.	→ AC (All Modules)
	B.A, HISG	CC/GE-4	HISTORY OF INDIA (1707-1950)	MODULE I to V = RB; VI, VII = AMB VIII & IX = AC.
	B.A, HISG	SEC B1	MUSEUMS & ARCHIVES IN INDIA	→ AMB (All Modules)
VI	B.A, HISA	CC 13	HISTORY OF INDIA (C1857-1964)	MODULE I, II, III, IV = BG
	B.A, HISA	CC 14	HISTORY OF WORLD POLITICS (1945-1994)	→ MODULE I to V = AMB → MODULE VI to X = AC
	B.A, HISA	DSEA3	HISTORY OF BENGAL (1905-1947)	→ MODULE I, II, III = BG → MODULE IV, V, VI, VII = RB
	B.A, HISA	DSE B3	HISTORY OF MODERN EAST ASIA-II JAPAN	→ KK (All Modules)

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(4) 2020-2021 (Jan'21 — June'21)

SEM	PROGRAMME	COURSE	TOPICS	TEACHERS ASSIGNED
VI	B.A, HISG	DSE B2	SOME ASPECTS OF SOCIETY & ECONOMY OF MODERN EUROPE: 15th to 18th CENTURY	KK & AMB MODULE I to IV = KK MODULE V to VII = AMB
VI	B.A, HISG	SEC B1	MUSEUMS & ARCHIVES IN INDIA: THEORY & PRACTICE	AMB (ALL MODULES)

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TEACHING PLAN FOR SEM I, III & 3RD YR. (PART III)
2019-2020 [CBCS] [1+1+1]

SEM/YR.	PROGRAMME	COURSE/PAPER	TOPICS	TEACHERS
SEM I (CBCS)	B.A, HISA	CC 1	HISTORY OF INDIA FROM THE EARLIEST TIMES TO c 300 BCE.	KK = MOD. I & II RB = MOD. III & IV
	B.A, HISA	CC 2	SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN INDIA.	AC = MOD. IV, V, VI AMB = MOD I, II, III
	B.A, HISG	CC/GE 1	HISTORY OF INDIA FROM THE EARLIEST TIMES UPTO 300 C.E.	
SEM III (CBCS)	B.A, HISA	CC 5	HISTORY OF INDIA (CE 750 — 1206)	RB = MOD I, II & V AC = MOD. III & IV
	B.A, HISA	CC 6	RISE OF THE MODERN WEST-I	AMB = MOD. I, II, III KK = MOD IV, V, VI
	B.A, HISA	CC 7	HISTORY OF INDIA (c. 1206 to 1526)	BG (4 MODULES) KK (4 MODULES)
	B.A, HISA	SEC A(1)	ARCHIVES & MUSEUMS	
	B.A, HISG	CC/GE 3	HISTORY OF INDIA FROM (1206 to 1707)	RB (9 MODULES)
	B.A, HISA	SEC A1	HISTORICAL TOURISM: THEORY & PRACTICE	AC (4 MODULES)

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2019 – 2020 (July'19 to June 2020)

SEM/YR.	PROGRAMME	COURSE/PAPER	TOPICS	TEACHERS
3rd YR. (Part III) [1+1+1]	B.A, HISA	PAPER IV A	HISTORY OF EAST ASIA FROM 1839 to 1950 [UNIT I CHINA UNIT II JAPAN]	KK (Total 10 Modules)
		PAPER VI	HISTORY OF INDIA (c1800 to 1964)	RB = UNIT I (1800 to 1885) = 6 Mod. BG = UNIT II (1885 onwards) = 7 Mod.
		PAPER VII	HISTORY OF EUROPE FROM 1789 to 1919	BG = UNIT I & II (Total 10 Modules)
		PAPER VIII	WORLD POLITICS IN THE 20th CENTURY FROM 1919 to c 2000.	AMB = UNIT I = 5 Mod. AC = UNIT II = 5 Mod.
3rd YR. (Part III)	B.A HISG	PAPER IV	INDIA AND THE WORLD	AC = UNIT I = 5 Mod. AMB = UNIT II = 6 ½

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2019 – 2020 (2020 January to June '20)

SEM	PROGRAMME	COURSE/PAPER	TOPICS	TEACHERS
II (CBCS)	B.A, HISA	CC 3	HISTORY OF INDIA c 300 BCE to c 750 CE	KK = MOD. 1. BG = MOD 2, 3. RB = MOD. 4, 5.
	B.A, HISA	CC 4	SOCIAL FORMATIONS & CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN INDIA. (GROUP B & C)	AC = Grp. B III & Grp. C AMB = Grp. B V KK = Grp. B IV
	B.A, HISG	CC/GE 2	HISTORY OF INDIA FROM c 300 – 1206	BG=4 (MOD I, II, III, IV) RB=4 (MOD V, VI, VII, VIII)
SEM IV (CBCS)	B.A, HISA	CC 8	RISE OF THE MODERN WEST-II	KK (6 Modules)
		CC 9	HISTORY OF INDIA (c1526-1605)	BG (6 ")
		CC 10	HISTORY OF INDIA (c1605-1750)	RB (6 ")
		SEC B(2)	ART APPRECIATION: AN INTRODUCTION TO INDIAN ART	AC (5 Modules)
	B.A, HISG	CC/GE 4	HISTORY OF INDIA (1707—1950)	RB (Mod. I to V) AMB (Mod. VI to VII) AC (Mod. VIII to IX)
		SEC B 1	MUSEUMS & ARCHIVES IN INDIA	AMB (4 Modules)

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TEACHING PLAN FOR SEM I, 2nd YEAR (PART II) & 3rd YR. (PART III) (CBCS) 2018-19 (1+1+1)

SEM/YR.	PROGRAMME	COURSE/PAPER	TOPICS	TEACHERS
SEM I (ODD SEM.)	B.A, HISA	CC 1	HISTORY OF INDIA FROM THE EARLIEST TIMES TO C 300 BCE	K.K = MOD. 1 AMB = MOD. 2 BG = MOD. 3 RB = MOD. 4 = 4 MODULES
	B.A, HISA	CC 2	SOCIAL FORMATION AND CULTURAL PATTERNS OF THE ANCIENT WORLD OTHER THAN INDIA	AC = 5 MODULES BG = 1 MODULE (VI only)
SEM I	B.A, HISG	CC/GE I	HISTORY OF INDIA FROM EARLIEST TIMES UPTO 300 C.E	AMB = MODULES I to IV BG = MODULES V to VIII KK = MODULES IX to X AC = MODULES XI to XII
2nd YR. (PART II)	B.A, HISA	PAPER III	TRANSFORMATION OF EUROPE (15th to 17th CENTURY)	UNIT I (6 MODULES) = AMB UNIT II (6 MODULES) = AC
	B.A, HISA	PAPER IV	HISTORY OF INDIA FROM C 1500 to C 1800	UNIT I = BG UNIT II = RB
2nd YR. (PART II)	B.A, HISG	PAPER III	MODERN EUROPE FROM 1789 to 1939 A.D.	UNIT I = BG UNIT II = AMB = 10 MODULES.
	B.A, HISG	PAPER IV	INDIA AND THE WORLD. UNIT I = INDIA 1947 to 1964 UNIT II = WORLD 1945 to 1991	AC = UNIT I KK = UNIT II

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(2)

(2018 — 2019)

SEM/YR	PROGRAMME	COURSE/PAPER	TOPICS	TEACHERS
3rd Yr. (Part III)	B.A, History Hons.	Paper V A	HISTORY OF EAST ASIA FROM 1839 to 1950 (UNIT I CHINA, UNIT II JAPAN)	KK (Total 10 Modules 5 each)
		PAPER VI	HISTORY OF INDIA (C1800 to 1964)	RB UNIT I (1800 to 1885) = 6 MODULES BG UNIT II (1885 onwards) = 7 MODULES
		PAPER VII	HISTORY OF EUROPE FROM 1789 to 1919	BG = UNIT I & II (TOTAL 10 MODULES)
		PAPER VIII	WORLD POLITICS IN THE 20th CENTURY FROM 1919 to C 2000.	AMB = UNIT I = 5 MODULES AC = UNIT II = 5 MODULES
	B.A, HISTORY GENERAL	PAPER IV	INDIA AND THE WORLD	AMB = UNIT I = 5 MOD. (India 1947 to 1964) AC = UNIT II = 6 MOD. (World 1945 to 1991) Total = 11 MODULES

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TEACHING PLAN FOR SEM II (2018-19) only
[JAN' 2019 to JUNE' 2019]

PROGRAMME	COURSE/PAPER	TOPICS	TEACHER
B.A, HISA	CC 3	HISTORY OF INDIA C 300 BCE to C 750 CE	KK = MOD. 1 BG = MOD. 2, 3. RB = MOD. 4, 5. (Total 5 Modules)
B.A, HHSA	CC 4	SOCIAL FORMATIONS & CULTURAL PATTERNS OF THE MEDIEVAL WORLD OTHER THAN INDIA (GROUP B & C)	AC = GRP B III KK = GRP. B IV AM B = GRP. B V AC = GRP. C VI RB (8 Modules)
B.A, HHSG	CC/GE 2	HISTORY OF INDIA FROM C300 - 1206.	

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TEACHING PLAN 2023 - 23

3 YEARS HONOURS COURSE / GENERAL Under CBCS

~~Philos~~ Philosophy

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 (Marchl,2023)	(H) CC 3	Samkhya ,Yoga	8	BM
	(H) CC 3	Vedanta	8	SB
		Mimamsha,	12	TS
	(H) CC 4	Locke,Barkeley, Hume	8	RS
	(H) CC 4	Immanuel kant	8	SDS
	(G) CC/GE 2	Western Philosophy	12	RS+BM
4 (March,2023)	(H) CC 8	Western Logic I	16	SDS
	(H) CC 9	Western Logic II	16	BM
	(H) CC 10	Western epistemology and Metaphysics	16	RS+SB
	(H) SEC	Environmental and Feminist Philosophy	8	TS
	CC/ GE 4	Philosophy of Mind	12	RS
	SEC	Man And Environment	8	TS
6 (Marchl,2023)	(H) CC 13	Nyaya Logic	12	RS
	(H) CC 14	Western Ethics	16	BM
	(H) DSE A	Applied Ethics	12	SB +TS
	(H) DSE B	Sami Vivekananda	12	SDS

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	(G) SEC	Man and Environment	8	TS
	(G)DSE B	Applied Ethics - Indian & Western	12	SB+TS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 (April,2023)	(H) CC 3	Samkhya ,Yoga	8	BM
	(H) CC 3	Vedanta	8	SB
		Mimamsha,	12	TS
	(H) CC 4	Locke,Barkeley, Hume	8	RS
	(H) CC 4	Immanuel kant	8	SDS
	(G) CC/GE 2	Western Philosophy	12	RS+BM
4 (April,2023)	(H) CC 8	Western Logic I	16	SDS
	(H) CC 9	Western Logic II	16	BM
	(H) CC 10	Western epistemology and Metaphysics	16	RS+SB
	(H) SEC	Environmental and Feminist Philosophy	8	TS
	CC/ GE 4	Philosophy of Mind	12	RS
	SEC	Man And Environment	8	TS
6	(H) CC 13	Nyaya Logic	12	RS

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(April,2023)	(H) CC 14	Western Ethics	16	BM
	(H) DSE A	Applied Ethics	12	SB +TS
	(H) DSE B	Sami Vivekananda	12	SDS
	(G) SEC	Man and Environment	8	TS
	(G)DSE B	Applied Ethics - Indian & Western	12	SB+TS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 Mayl,2023)	(H) CC 3	Samkhya ,Yoga	4	BM
	(H) CC 3	Vedanta	4	SB
		Mimamsha,	6	TS
	(H) CC 4	Locke,Barkeley, Hume	4	RS
	(H) CC 4	Immanuel kant	4	SDS
	(G) CC/GE 2	Western Philosophy	6	RS+BM
4 (May,2023)	(H) CC 8	Western Logic I	8	SDS
	(H) CC 9	Western Logic II	8	BM
	(H) CC 10	Western epistemology and Metaphysics	8	RS+SB
	(H) SEC	Environmental and Feminist Philosophy	4	TS

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	CC/ GE 4	Philosophy of Mind	6	RS
	SEC	Man And Environment	4	TS
6 (May,2023)	(H) CC 13	Nyaya Logic	6	RS
	(H) CC 14	Western Ethics	8	BM
	(H) DSE A	Applied Ethics	6	SB +TS
	(H) DSE B	Sami Vivekananda	6	SDS
	(G) SEC	Man and Environment	4	TS
	(G)DSE B	Applied Ethics - Indian & Western	6	SB+TS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 (June,2023)	(H) CC 3	Samkhya ,Yoga	4+Tutorial, internal	BM
	(H) CC 3	Vedanta		SB
		Mimamsha,	4+Tutorial, internal	TS
	(H) CC 4	Locke,Barkeley, Hume	4+Tutorial, internal	RS
	(H) CC 4	Immanuel kant	4+Tutorial, internal	SDS
	(G) CC/GE 2	Western Philosophy	4+Tutorial, internal	RS+BM

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4 (June,2023)	(H) CC 8	Western Logic I	4+Tutorial, internal	SDS
	(H) CC 9	Western Logic II	4+Tutorial, internal	BM
	(H) CC 10	Western epistemology and Metaphysics	4+Tutorial, internal	RS+SB
	(H) SEC	Environmental and Feminist Philosophy	2+Tutorial, internal	TS
	CC/ GE 4	Philosophy of Mind	4+Tutorial, internal	RS
	SEC	Man And Environment	2+Tutorial, internal	TS
6 (June,2023)	(H) CC 13	Nyaya Logic	4+Tutorial, internal	RS
	(H) CC 14	Western Ethics	6+Tutorial, internal 16	BM
	(H) DSE A	Applied Ethics	4+Tutorial, internal	SB +TS
	(H) DSE B	Sami Vivekananda	4+Tutorial, internal	SDS
	(G) SEC	Man and Environment	2+Tutorial, internal	TS
	(G)DSE B	Applied Ethics - Indian & Western	4+Tutorial, internal	SB+TS

In July no class for exam, we will take remedial class in this month

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER

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(July,2023)	(H) CC 3	Samkhya ,Yoga		
	(H) CC 3	Vedanta		
		Mimamsha,		
	(H) CC 4	Locke,Barkeley, Hume		
	(H) CC 4	Immanuel kant	8	SDS
	(G) CC/GE 2	Western Philosophy	12	RS+BM
4 (July,2023)	(H) CC 8	Western Logic I	16	SDS
	(H) CC 9	Western Logic II	16	BM
	(H) CC 10	Western epistemology and Metaphysics	16	RS+SB
	(H) SEC	Environmental and Feminist Philosophy	8	TS
	CC/ GE 4	Philosophy of Mind	12	RS
	SEC	Man And Environment	8	TS
6 July,2023)	(H) CC 13	Nyaya Logic	12	RS
	(H) CC 14	Western Ethics	16	BM
	(H) DSE A	Applied Ethics	12	SB +TS
	(H) DSE B	Sami Vivekananda	12	SDS
	(G) SEC	Man and Environment	8	TS
	(G)DSE B	Applied Ethics - Indian & Western	12	SB+TS

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~~Agenda 1:~~

~~Resolved that the following teaching/ lesson plan be followed in the odd semester.~~

DETAILED TEACHING PLAN AT THE BEGINNING OF THE SESSION 2022-23

3YEARS HONOURS COURSE / GENERAL Under CBCS

Philosophy

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (September,2022)	(H) CC 1	Carvaka, Jain, Buddhism	12	BM
	(H) CC 1	Nyaya & Vaiseshika	16	SDS
	(H) CC 2	Pre Socratic philosophy,Plato, Aristotle	4	SB
	(H) CC 2	Descartes, Spinoza , Leibnitz	12	RS
	(G) CC/GE 1	Indian Epistemology and Metaphysics	8	RS
3 (September,2022)	(H) CC 5	Philosophy of Mind	8+4	SB
	(H) CC 6	Social&Political Philosophy	12	SDS
	(H) CC 7	Philosophy of Religion	12	BM
	(H) SEC	Man and Environment	16	RS
	(G) CC/ GE 3	Logic	8+4	BM+RS
	(G) SEC	Logical reasoning	8	SDS
5 (September,2022)	(H) CC 11	Nyaya Logic	16	SDS
	(H) CC 12	Indian Ethics	12	BM
	(H) DSE A	Philosophy of language	12	RS
	(H) DSE B	Gita	12	SB
	(G) DSE A	Ethics -Indian & Western	8+4	RS
	(G) SEC	Logical reasoning And Application	8	SDS

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02.08.22

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SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (October ,2022)	CC 1	Carvaka, Jain, Buddhism	12	BM
	CC 1	Nyaya & Vaiseshika	16	SDS
	CC 2	Plato, Aristotle	4	SB
	CC 2	Descartes, Spinoza , Leibnitz	12	RS
	CC/GE	Indian philosophy and Epistemology	8	RS
3 (October,2022)	CC 5	Philosophy of Mind	8+4	SB
	CC 6	Social&Political Philosophy	12	SDS
	CC 7	Philosophy of Religion	12	BM
	SEC	Man and Environment	16	RS
	CC/ GE 3	Logic	8+4	BM+RS
	SEC	Logical reasoning	8	SDS
5 (October,2022)	CC 11	Nyaya Logic	16	SDS
	CC 12	Indian Ethics	12	BM
	DSE A	Philosophy of language	12	RS
	DSE B	Gita	12	SB
	SEC	Man and Environment	3	RS
	DSE A	Ethics -Indian & Western	8+4	RS
	SEC	Logical reasoning And Application	8	SDS

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SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER

1 (November ,2022)	CC 1	Carvaka, Jain, Buddhism	12	BM
	CC 1	Nyaya & Vaiseshika	16	SDS
	CC 2	Plato, Aristotle	4	SB
	CC 2	Descartes, Spinoza , Leibnitz	12	RS
	SEC	Indian philosophy and Epistemology	8	RS
3 (November 2022)	CC 5	Philosophy of Mind	8+4	SB
	CC 6	Social&Political Philosophy	12	SDS
	CC 7	Philosophy of Religion	12	BM
	SEC	Man and Environment	16	RS
	CC/ GE 3	Logic	8+4	BM+RS
	SEC	Logical reasoning and applications	8	SDS
5 (November,2022)	CC 11	Nyaya Logic	16	SDS
	CC 12	Indian Ethics	12	BM
	DSE A	Philosophy of language	12	RS
	DSE B	Gita	12	SB
	DSE A	Ethics -Indian & Western	8+4	SB
	SEC	Logical reasoning And Application	8	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (December ,2022)	CC 1	Carvaka, Jain, Buddhism	9	BM
	CC 1	Nyaya & Vaiseshika	12	SDS
	CC 2	Plato, Aristotle	3	SB
	CC 2	Descartes, Spinoza , Leibnitz	9	RS
	SEC	Indian philosophy and Epistemology	6	RS
3 (December, 2022)	CC 5	Philosophy of Mind	9	SB
	CC 6	Social&Political Philosophy	4	SDS
	CC 7	Philosophy of Religion	4	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	4	BM
	SEC	Logical reasoning	6	SDS
5 (December,2022)	CC 11	Nyaya Logic	9	SDS
	CC 12	Indian Ethics	9	BM
	DSE A	Philosophy of		RS

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	DSE B	language Gita	9	SB
	DSE A	Ethics -Indian & Western	6+3	RS
	SEC	Logical reasoning And Application	6	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (January ,2023)	CC 1	Carvaka, Jain, Buddhism	4	BM
	CC 1	Nyaya & Vaiseshika	4	SDS
	CC 2	Plato, Aristotle	2	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Epistemology	2	RS
3 (January, 2023)	CC 5	Philosophy of Mind	2+2	SB
	CC 6	Social&Political Philosophy	4	SDS
	CC 7	Philosophy of Religion	4	BM
	SEC	Man and Environment	4	RS
	CC/ GE 3	Logic	3+1	BM +RS
	SEC	Logical reasoning and Applications	4	SDS
5 (January 2023) END -SEM EXAMS.	CC 11	Nyaya Logic	4+ Tutorial/Internal	SDS
	CC 12	Indian Ethics	3+ tutorial/Internal	BM
	DSE A	Philosophy of language	3+ Tutorial/Internal	RS
	DSE B	Gita	3+ Tutorial/Internal	SB
	DSE A	Ethics -Indian & Western	2 + Tutorial/Internal	RS
	SEC	Logical reasoning And Application	2 + Internal	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (February ,2023)	CC 1	Carvaka, Jain, Buddhism	4	BM
	CC 1	Nyaya & Vaiseshika	4	SDS
	CC 2	Plato, Aristotle	2	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Environment	2	RS

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3 (February, 2023) END -SEM EXAMS.	CC 5	Philosophy of Mind	2+Tutorial/Internal	SB
	CC 6	Social&Political Philosophy	2+Tutorial/Internal	SDS
	CC 7	Philosophy of Religion	2+Tutorial/Internal	BM
	SEC	Logical reasoning Indian part	2+ Internal	SDS
	CC/ GE 3	Logic	2+Tutorial/Internal	BM
	SEC	Logical reasoning	4	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (March ,2023) END -SEM Exams.	CC 1	Carvaka, Jain, Buddhism	2+Tutorial/Internal	BM
	CC 1	Nyaya & Vaiseshika	2	SDS
	CC 2	Plato, Aristotle	2 +Tutorial/Internal	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Environment	2+ internal	RS
	CC/GE 1	Indian Philosophy	2+Tutorial/Internal	BM
3 (March, 2022) END -SEM EXAMS.			N	
			O	
			C	
			L	
			A	
			SS	
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (April ,2022) END SEM EXAMS.				

~~Agenda 2:~~

~~Resolved that ,we will organize the World Philosophy day on 17th November, 2022 and organize departmental seminar collaborate with other departments.~~

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DETAILED TEACHING PLAN AT THE BEGINNING OF THE SESSION 2021-22

3 YEARS HONOURS COURSE / GENERAL Under CBCS

Philosophy

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (September,2021)	CC 1	Carvaka, Jain, Buddhism	8	BM
	CC 1	Nyaya & Vaiseshika	8	SDS
	CC 2	Plato, Aristotle	8	SB
	CC 2	Descartes, Spinoza , Leibnitz	8	RS
	SEC	Indian philosophy and Environment	4	RS
	CC/GE 1	Indian Philosophy	4	BM
3 (September,2021)	CC 5	Philosophy of Mind	8	SB
	CC 6	Social&Political Philosophy	8	SDS
	CC 7	Philosophy of Religion	8	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	6	BM
	SEC	Logical reasoning	6	SDS
5 (September,2021)	CC 11	Nyaya Logic	5+5	SB & SDS
	CC 12	Indian Ethics	8	BM
	DSE A	Philosophy of language	8	RS
	DSE B	David Hume	8	SDS
	SEC	Man and Environment	5	RS
	DSE A	Ethics -Indian & Western	7	SB
	SEC	Logical reasoning And Application	5	SDS

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SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (October .2021)	CC 1	Carvaka, Jain, Buddhism	4	BM
	CC 1	Nyaya & Vaiseshika	4	SDS
	CC 2	Plato, Aristotle	4	SB
	CC 2	Descartes, Spinoza , Leibnitz	4	RS
	SEC	Indian philosophy and Environment	4	RS
	CC/GE 1	Indian Philosophy	4	BM
3 (October.2021)	CC 5	Philosophy of Mind	5	SB
	CC 6	Social&Political Philosophy	5	SDS
	CC 7	Philosophy of Religion	5	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	5	BM
	SEC	Logical reasoning	5	SDS
5 (October.2021)	CC 11	Nyaya Logic	3+3	SB & SDS
	CC 12	Indian Ethics	4	BM
	DSE A	Philosophy of language	4	RS
	DSE B	David Hume	4	SDS
	SEC	Man and Environment	3	RS
	DSE A	Ethics -Indian & Western	4	SB
	SEC	Logical reasoning And Application	3	SDS

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SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER

1 (November ,2021)	CC 1	Carvaka, Jain, Buddhism	6	BM
	CC 1	Nyaya & Vaiseshika	6	SDS
	CC 2	Plato, Aristotle	5	SB
	CC 2	Descartes, Spinoza , Leibnitz	5	RS
	SEC	Indian philosophy and Environment	5	RS
	CC/GE 1	Indian Philosophy	5	BM
3 (November 2021)	CC 5	Philosophy of Mind	5	SB
	CC 6	Social&Political Philosophy	5	SDS
	CC 7	Philosophy of Religion	5	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	5	BM
	SEC	Logical reasoning	5	SDS
5 (November.2021)	CC 11	Nyaya Logic	4+4	SB & SDS
	CC 12	Indian Ethics	5	BM
	DSE A	Philosophy of language	5	RS
	DSE B	David Hume	5	SDS
	SEC	Man and Environment	3	RS
	DSE A	Ethics -Indian & Western	6	SB
	SEC	Logical reasoning And Application	3	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (December ,2021)	CC 1	Carvaka, Jain, Buddhism	5	BM
	CC 1	Nyaya & Vaiseshika	5	SDS
	CC 2	Plato, Aristotle	4	SB
	CC 2	Descartes, Spinoza , Leibnitz	4	RS
	SEC	Indian philosophy and Environment	4	RS
	CC/GE 1	Indian Philosophy	4	BM
3 (December, 2021)	CC 5	Philosophy of Mind	4	SB
	CC 6	Social&Political	4	SDS

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		Philosophy		
	CC 7	Philosophy of Religion	4	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	4	BM
	SEC	Logical reasoning	4	SDS
5 (December.2021)	CC 11	Nyaya Logic	4+4	SB & SDS
	CC 12	Indian Ethics	5	BM
	DSE A	Philosophy of language	5	RS
	DSE B	David Hume	5	SDS
	SEC	Man and Environment	3	RS
	DSE A	Ethics -Indian & Western	4	SB
	SEC	Logical reasoning And Application	3	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (January .2022)	CC 1	Carvaka, Jain, Buddhism	4	BM
	CC 1	Nyaya & Vaiseshika	4	SDS
	CC 2	Plato, Aristotle	2	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Environment	2	RS
	CC/GE 1	Indian Philosophy	2	BM
3 (January, 2022)	CC 5	Philosophy of Mind	4	SB
	CC 6	Social&Political Philosophy	4	SDS
	CC 7	Philosophy of Religion	4	BM
	SEC	Logical reasoning Indian part	4	SDS
	CC/ GE 3	Logic	4	BM
	SEC	Logical reasoning	4	SDS
5 (January 2022) END -SEM EXAMS.	CC 11	Nyaya Logic	4+ Tutorial/Internal	SB & SDS
	CC 12	Indian Ethics	3+ tutorial/Internal	BM
	DSE A	Philosophy of language	3+ Tutorial/Internal	RS
	DSE B	David Hume	3+	SDS
	SEC	Man and	2+ Internal	RS

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		Environment		
	DSE A	Ethics -Indian & Western	2 + Tutorial/Internal	SB
	SEC	Logical reasoning And Application	2 + Internal	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (February .2022)	CC 1	Carvaka, Jain, Buddhism	4	BM
	CC 1	Nyaya & Vaiseshika	4	SDS
	CC 2	Plato, Aristotle	2	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Environment	2	RS
	CC/GE 1	Indian Philosophy	2	BM
3 (February. 2022) END -SEM EXAMS.	CC 5	Philosophy of Mind	2+Tutorial/Internal	SB
	CC 6	Social&Political Philosophy	2+Tutorial/Internal	SDS
	CC 7	Philosophy of Religion	2+Tutorial/Internal	BM
	SEC	Logical reasoning Indian part	2+ Internal	SDS
	CC/ GE 3	Logic	2+Tutorial/Internal	BM
	SEC	Logical reasoning	4	SDS
SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
1 (March .2022) END -SEM Exams.	CC 1	Carvaka, Jain, Buddhism	2+Tutorial/Internal	BM
	CC 1	Nyaya & Vaiseshika	2	SDS
	CC 2	Plato, Aristotle	2 +Tutorial/Internal	SB
	CC 2	Descartes, Spinoza , Leibnitz	2	RS
	SEC	Indian philosophy and Environment	2+ internal	RS
	CC/GE 1	Indian Philosophy	2+Tutorial/Internal	BM
			N	

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Agenda 1 & 2:

Resolved that the following teaching /Lesson plan be followed in the even semester.

TEACHING PLAN

3 YEARS HONOURS COURSE / GENERAL Under CBCS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 (April,2022)	CC 3	Samkhya ,Yoga	8	BM
	CC 3	Mimamsha, Vedanta	8	SB
	CC 4	Locke,Barkeley	8	RS
	CC 4	Immanuel kant	4	SDS
	CC/GE 2	Western Philosophy	4	BM+RS
4 (April,2022)	CC 8	Western Logic I	8	SDS
	CC 9	Western Logic II	8	BM
	CC 10	~~Analytic Philosophy~~ Epistemology & Metaphysics	8	SB
	SEC	Environmental & Feminist Philosophy	4	RS
	CC/ GE 4	Philosophy of Mind	6	RS
	SEC	Man And Environment	6	SDS
6 (April,2022)	CC 13	Nyaya Logic	8	RS
	CC 14	Western Ethics	8	BM
	DSE A	Applied Ethics	8	SB
	DSE B (2)a	~~David Hume~~ Vivekanda.	8	SDS
	SEC	Man and Environment	5	SDS
	DSE B	Applied Ethics - Indian & Western	7	SB
	SEC	Man and environment	5	SDS

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER

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2 (May,2022)	CC 3	Samkhya ,Yoga	4	BM
	CC 3	Mimamsha, Vedanta	4	SB
	CC 4	Locke,Barkeley	4	RS
	CC 4	Immanuel kant	2	SDS
	CC/GE 2	Western Philosophy	2	BM+RS
4 (May,2022)	CC 8	Western Logic I	5	SDS
	CC 9	Western Logic II	5	BM
	CC 10	~~Analytic Philosophy~~ Epistemology and Metaphysics	5	SB
	SEC	Environmental & Feminist Philosophy	3	RS
	CC/ GE 4	Philosophy of Mind	4	RS
	SEC	Man And Environment	3	SDS
6 (May,2022)	CC 13	Nyaya Logic	4	RS
	CC 14	Western Ethics	4	BM
	DSE A	Applied Ethics	4	SB
	DSE B	~~David Hume~~ Vivekananda	4	SDS
	SEC	Man and Environment	2	SDS
	DSE B	Applied Ethics - Indian & Western	4	SB
	SEC	Man and environment	4	SDS

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SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
2 (June,2022)	CC 3	Samkhya ,Yoga	2	BM
	CC 3	Mimamsha, Vedanta	2	SB
	CC 4	Locke,Barkeley	2	RS
	CC 4	Immanuel kant	1	SDS
	CC/GE 2	Western Philosophy	2	BM+RS
4 (June,2022)	CC 8	Western Logic I	2	SDS
	CC 9	Western Logic II	2	BM
	CC 10	~~Analytic Philosophy~~ Epistemology and Metaphysics	3	SB

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	SEC	Environmental & Feminist Philosophy	2	RS
	CC/ GE 4	Philosophy of Mind	3	RS
	SEC	Man And Environment	2+	SDS
6 (June,2022) END SEM EXAMS.	CC 13	Nyaya Logic	Tutorial/Internal	
	CC 14	Western Ethics		
	DSE A	Applied Ethics		
	DSE B	~~David~~ Hume Vivekananda		
	SEC	Man and Environment		
	DSE B	Applied Ethics - Indian & Western		
	SEC	Man and environment		

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER
	CC 3	Samkhya ,Yoga	Tutorial/internal	BM
2 (July,2022)	CC 3	Mimamsha, Vedanta		SB
	CC 4	Locke,Barkeley		RS
	CC 4	Immanuel kant		SDS
	CC/GE 2	Western Philosophy		BM+RS
4 (July,2022) END -SEM EXAMS.	CC 8	Western Logic I	NO	
	CC 9	Western Logic II	C	
	CC 10	~~Analytic~~ Epistemology & Philosophy and Metaphysics	L	
	SEC	Environmental & Feminist Philosophy	A	
	CC/ GE 4	Philosophy of Mind	S	
	SEC	Man And Environment	S	

SEMESTER	COURSE	UNIT/MODULE	NO. OF LECTURES ALLOTED (Duration of each lecture is one hour)	ASSIGNED TEACHER

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2 (August,2022) END SEM EXAMS	CC 3	Samkhya ,Yoga	NO	
	CC 3	Mimamsha, Vedanta	CLASS	
	CC 4	Locke,Barkeley		
	CC 4	Immanuel kant		
	CC/GE 2	Western Philosophy		

~~Agenda 3~~:

~~Resolved that, We need to arrange more seminars, interactive sessions with students to make them cope up with the new normal situations.department will provide all kind of assistance to its students.~~

~~As there were no matters under Misc. ,the meeting ended with vote of thanks~~.

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Teaching plan - 2020-21
SEM - II, IV and VI
Philosophy

SEM	paper	TOPICS	Teacher
II(H)	CC-3	Outlines of Indian philosophy - II	Bibek Manna
		a) Sāmkhya	
		b) Yoga	
		c) Mimamsa	
		d) Advaita Vedanta	Shibani Bhattacharya
		e) visistādvaita	
II(H)	CC-4	History of Western philosophy - II	
		a) Loke	Ranjit Shaw
		b) Berkeley	
		c) Hume	
II(H)	CC-4	History of Western philosophy - II	Sangita Dey Sarkar
		d) Kant	
II(G)	CC/GE-2	Western Epistemology and Metaphysics	
		A) Difference sense of Know, concept of Rationalism and Empiricist view	Bibek Manna
		B) Theories of the origin of Knowledge	
		c) Realism	
		D) causality	
		E) Mind-Body problem	

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SEM	paper	TOPICS	Teacher
IV(H)	CC-8	Western Logic-I a) Logic and Arguments Statement forms, Truth and validity b) Immediate inference c) categorical syllogism d) Boolean Interpretation of categorical proposition e) Induction f) causal connections g) Science and Hypothesis h) probability	Shibani Bhattacharya ~~Sreegita~~ ~~Dey Sarkar~~
IV(H)	CC-9	Western Logic-II a) Symbolic Logic b) Tautologous The three thought of laws. c) The method of truth table d) validity e) The method of Deduction f) Quantification Theory g) Quantification Rules	Bibek Manna

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SEM	paper	TOPICS	Teacher
IV (H)	CC-10	Epistemology and Metaphysics (Western)	
		a) concepts, Truth	
		b) source of Knowledge	
		c) some principl uses of the verb "To Know"	
		d) Analytic truth and Logical possibility	Ranjit Shaw
		e) The Aapriori	
		f) The problem of induction	
		g) cause and causal principles	
		h) Realism, Idealism	
		i) phenomenalism	
		J) substance and universal	
IV (H)	SEC-B1	Emerging Trends of Thought	
		B. Environmental Philosophy	~~Shibani~~ ~~Bhattacharya~~
		c. Feminist philosophy	Sangita Dey Sarkar

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SEM	paper	TOPICS	Teacher
VI (H)	CC-13	Nyāya Logic and Epistemology - II a) Anumana b) Pakṣadharmata, Svārthānumiti, Parārthānumiti c) Hetvābhāsa d) Upamāna e) Saktigraha f) Lakṣaṇa g) Arthapatti h) prāmaṇyavāde	Ranjit Shaw
SEM-VI (H)	paper-14	Ethics (Western) A) Nature and scope of Ethics B) Moral and non moral actions C) Moral Theories D) Standards of Morality E) Theories of punishment	Sangita Dey sarkar

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SEM	paper	TOPICS	Teacher
VI (H)	DSE-A(2) b.	Applied Ethics 1. Nature and scope of applied Ethics 2. Killing 3. poverty 4. War and violence 5. Right 6. The Ethis of care 7. Value beyond Sentient begins, Reverence for life, Ecology 8. Ecological concern in Indian Thoughts	Shibani Bhattacharya
VI (H)	DSE-B(2) d	M.K. Gandhi 1. God and Truth 2. Nature of Man 3. Non-violence 4. Satyāgraha 5. Swaraj 6. Theories of Trusteeship	Bibek Manna

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SEM	paper	TOPICS	Teacher
VI (G)	DSE-B a.	Applied Ethics and Philosophy of Religion - A, B, C, D E. F. G -	Shibani Bhattacharya Ranjit Shaw
IV and VI (G)	SEC-B a.	Man and Environment A) Classical Indian Attitude to Environment B) Respect of Nature C) Intrinsic value of nature D) Deep Ecology and its Third World critique E) Eco-feminism	Sangita Dey Sarkar

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TEACHING PLAN - 2020-21

SEM - I, III & V

Philosophy

SEM	Paper	TOPICS	Teacher
I (H)	CC-1	Indian Philosophy - I a) Introduction b) Cārvāka school: Epistemology & Metaphysics Ethics c) Jainism: concept of Sat Dravya, Anekantabada Syadvada d) Buddhism: Four Noble truths, Theory of dependent origination, Doctrin of Momentariness, self	Bibek Manna
		Indian Philosophy - I e) Nyāya Philosophy f) Anumiti g) Vaiśeṣika	Sangita Dey Sarkar
I (H)	CC-2	History of Western Philosophy - I a) Pre Socratic Philosophy b) Plato's Philosophy c) Aristotle d) St. Thomas Aquinas	Shibani Bhattacharya

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SEM	Paper	TOPICS	Teacher
I(H)	cc-2	History of Western Philosophy - I E) ~~Spinoza~~ Descartes F) & Spinoza G) Leibniz	Ranjit Shaw
I(G)	cc/GE-I	Indian Epistemology and Metaphysics A) Cārvāka Epistemology D) Advaita Metaphysics B) Nyāya Epistemology C) Vaiśeṣika Metaphysics	Bibek Manna Ranjit Shaw
~~II (Hons)~~	~~CC-3~~	~~Outlines of Indian Philosophy - II~~ ~~A) Sāṁkhya : Satkāryavād Nature of Prakṛti its constituents proofs of its existence. Nature of Puruṣa and proofs for its existence~~	

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SEM	Paper	TOPICS	Teacher
III(H)	CC-5	Philosophy of Mind	
		a) Defination and Nature of psychology	
		b) Methods of psychology	
		c) Senstion and perception	Shibani Bhattacharya
		d) Learning theory	
		e) Philosophical theories of Mind	
		f) Conciousness	
		g) Intelligence	
		h) personality	
III(H)	CC-6	Social and political Philosophy	
		a) Nature and scope Relation between social and political philosophy	Sangita Dey Sarkar
		b) primary concepts	
		c) Social class and cast	
		d) Theories reagarding the relation between individual and society	

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SEM	Paper	TOPICS	Teacher
III (H)	CC-6	Social and political Philosophy	
		e) Secularism	Ranjit Shaw
		f) Social change	
		g) Political Ideals	
III (H)	CC-7	Philosophy of Religion	
		a) Nature and scope	
		b) The philosophical teaching of the Holy Quran	
		c) Some basic tenets of christianity	
		d) Religious pluralism	Bibek Manna
		e) Arguments for existence of God	
		f) Grounds for disbelief in God	
		g) The Peculiarity of Religious Language	

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SEM	Paper	TOPICS	Teacher
III (H)	SEC-A, 2	Man and Environment a) Classical Indian attitude to Environment b) Respect for Nature c) Intrinsic value of nature d) Deep Ecology and its Third World Critique	Sangita Dey Sarkar
		e) Eco-Feminism	Ranjit Shaw
III (G)	CC/GE-3	Western Logic A) Introductory topics B) Aristotelian classification of categorical proposition conversion, obversion c) categorical syllogism D) symbolic Logic	Bibek Manna
		Western Logic E) Tautology, contradiction, contingent statement forms, construction of truth table, validity	

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SEM	Paper	TOPICS	Teacher
		F) Mill's Methods of Experimental inquiry	Ranjit Shaw
III (G)	SEC-A-1	Logical Reasoning and application 1. The main objective of logical reasoning 2. Definition of pakṣha sādhya, hetu, Sapaksha bipaksha 3. Hetvabhāsa 4. Reasoning in practice 5. Inductive reasoning in Law 6. Deductive Reasoning in Law	Sangita Dey Sarkar Shibani Bhattacharya
V (H)	CC-11	Nyāya Logic and Epistemology - 1 a) Buddhi, Smṛiti Anubhava b). Four fold division of Prama and pramāṇa karaṇa, Kāraṇa and its division	

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SEM	paper	TOPICS	Teacher
		c) Pratyakṣa and its two-fold division d) Sannikarṣa Anupalabdhi	Sangita Dey Sarkar
V	CC-12	Ethics (Indian) a) Introduction b) Meaning of Dharma Ṛṇa, Ṛta c) Vidhi and Niṣedha d) Buddhist Ethics e) Jaina Ethics f) Mimāsa Ethics	Shibani Bhattacharya Bibek Manna
V	DSE-A-3	Philosophy of Language (Indian) 1. Definition and classification of pada 2. Āsatti, yogyatā Tātparya, Ākāṁṣa 3. Lakṣaṇa 4. Śabdabodha 5. Anvitābhidhānvāda and avihitānvayavāda	Ranjit Shaw

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SEM	paper	TOPICS	Teacher
V (H)	DSE-B.1	An Enquiry Concerning Human Understanding	
		chapter - 1 - 3	Sangita Daysarkar
		chapter - 4 - 6	
		chaper - 7 - 9	
		chapter - 10 - 12	
V (G)	DSE-A-1	Ethics: Indian and Western	
		A. Four puruṣārthas	Ranjit Shaw
		B. Buddhist Ethics	
		c. Moral and non-Moral actions, ~~objects~~ object of Moral judgement	Shibani Bhattacharya
		D. Teleological Ethics	
		E. Theories of punishment	Bibek Manna
V (G)	SEC-A.	Logical Reasoning and application	Sangita Daysarkar
		Same as PHG-3	

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Teaching plan - 2019-20

SEM-I, 3, and 3rd year sem.

Philosophy

SEM-I, PHIA-CC-1

Indian Philosophy-I

a. Introduction b. Cārvāka shool c. Jainism d. Buddhism	Bibek Manna
e. Nyāya f. Anumati g. ~~Bai~~ Vaiśeṣika	Sangita Dey Sarkar

SEM-I, CC-2, (PHIA)

History of Western philosophy-I

a. Pre socratic philosophy b. Plato c. Aristotle	Shibani Bhattacharya
d. St. Thomas e. Descartes f. Spinoza g. Leibniz	Ranjit Shaw

Sem-I, PHIG, CC/GE-I.

Indian ~~Philosophy~~ Epistemology and Metaphysics

A. cārvāka B. Nyāya Epistemology	Bibek Manna
c. Vaiśeṣika -	
D. Advaita Vedānta -	Shibani Bhattacharya

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SEM-III, PHIA, CC-5

Philosophy of Mind

Whole paper - Shibani Bhattacharya

SEM-III, PHIA- CC-6

Social and political Philosophy

Whole paper - Ranjit Shaw

SEM-III, PHIA- CC-7

Philosophy of Religion

Whole paper - Bibek Manna

SEM-III, PHIA, ~~CC~~ - SEC-A-1

Logical Reasoning and Application

Whole paper - Sangita Dey Sarkar

SEM-III, PHIG, CC/GE-I

Western Logic

A, B-C, D, E — Bibek Manna

F — Ranjit Shaw

SEM-III, PHIG- SEC-A-1

Logical Reasoning and Application

Whole paper - Sangita Dey Sarkar

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PHIA - 3rd year, paper - V
Indian Logic and Epistemology
Whole paper - Shibani Bhattacharya

PHIA - 3rd year paper - VI
Philosophy of Language, Epistemology and Metaphysics
Whole paper - Sangita Dey Sarkar

PHIA - 3rd year, paper - VII
Ethics and philosophy of Religion
Whole paper - Ranjit Shaw

PHIA - 3rd year - paper - VIII
Western Logic
Whole paper - Bibek Manna

PHIG - 3rd year, Paper - IV
Unit - I - Sangita Dey Sarkar
Unit - II & III - Ranjit Shaw
Unit - IV - Shibani Bhattacharya

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Teaching plan - 2019-20

SEM-II, PHIA, CC-3
Outlines of Indian Philosophy - II

a. Sāmkya
b. Yoga
c. Mīmāmsā
} Bibek Manna

d. Advaita Vedānta
e. Viśiṣtadāvita
} Shibani Bhattacharya

SEM-II - PHIA - CC - 4
History of Western Philosophy - II

a. Locke
b. Berkeley
} Ranjit Shaw

c. Hume
d. Kant
} Sangita Dey Sarkar

SEM-II, PHIG - CC/GE-II
Western Epistemology and ~~Metaphy~~ Metaphysics

A. Difference senses of Know
B. Theories of the origin of knowledge
C. Realism
} Bibek Manna

d. causality
e. Mind-Body problem
} Ranjit Shaw

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SEM-6 IV, PHIA, CC-8
Western Logic - I - Shibani Bhattacharya

SEM-IV, PHIA - CC-9
Western Logic II - Bibek Manna

SEM-IV, PHIA - CC-10
Epistemology and Metaphysics
Ranjit Shaw

SEM-IV, PHIA -
Emerging trends of thought

B. Environmental Philosophy
C. Feminist Philosophy
Sangita Dey Sarkar

SEM-IV, PHIG - CC/GE-4
Philosophy of mind - Ranjit Shaw

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Teaching plan - 2018 -19

Philosophy

SDS

PHIA - 3rd year (H) - paper VI Philosophy of language, Epistemology and Metaphysics (whole paper)

+

PHIA - 2nd year - paper - III - Locke, Berkeley Hume and Kant's Philosophy

PHIA - SEM - I (PHIA) - Nyaya Baisiseka Darshan

PHIG - 3rd year - paper - IV - social political Philosophy

PHIG - II year - Logic - unit - I and II

SB

PHIA - 3rd year - paper - V - Indian logic and Epistemology (whole paper)

PHIA - 2nd year - paper - IV - Logic Induction

SEM - 1 (PHIA) - CC - 1 - Mimansa and vedanta Darshan

PHIG 3rd year paper - IV - Unit - IV - Gandhi and Ambedkar

PHIG - 2nd year - paper - II - western logic unit - I & II

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RS

PHIA- 3rd year - paper- VII - Ethics and Philosophy of Religion (whole paper)

PHIA - 2nd year - paper - III - unit - I & II - western Philosophy - Plato, Aristotle Descartes, Spinoza & Leibnit

SEM - I (PHIA) - CC - 2 - Descartes, Spinoza and Leibneiz,

PHIG - 3rd year - paper - IV - unit - III - Swami vivekananda

PHIG - 2nd year - paper - II - unit III & IV Applied Ethics and Philosophy of Religion

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BM

3rd year (PHIA) - paper - VIII - western logic (whole paper)

PHIA - 2nd year paper - IV - Unit - unit - III & IV (Symbolic Logic)

PHIA - SEM - I - CC - 1 - Carvak, Jaina, Buddist Philosophy

PHIG - SEM - I - CC - I - whole paper

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Teaching plan - 2018 - 19
SEM-II (H/G) 2nd year (H/G)

Sangita Dey Sarkar

2nd year (H), paper-III - unit-III & IV

(A) Locke,
(B) Berkeley
(C) Hume
} unit-III

(A) Kant - unit-IV

SEM-2, PHIA - CC-2 - History of Western Philosophy - II

(D) Kant

2nd year (PHIG) - paper-II, unit-I & II

Western Logic

Unit-I - Aristotelian Logic

Categorical syllogism

(A, B, C)

Unit-II - symbolic Logic

(A, B)

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Shibani Bhattacharya

PHIA- 2nd year - Paper- IV - Western Logic
Unit - II (A). Analogical argument
(B) Cause and effect
Mill's Method
(C) Science and Hypothesis
(D) Probability

PHIG- 2nd year - paper- II-
Unit - II - Mill's Methods
of Experimental inquiry

PHIA-SEM-2, paper-cc-3 - outlines of
Indian philosophy - II
(C) Mimamsa Darshan
(D) ~~Adai~~ Advaita vedanta
(E) Viśistādvaita Vedanta

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Ranjit Shaw

PHIA - 2nd year - paper - III

Unit - I - (A) plato's Philosophy

Unit II (A) Descartes

(B) Spinoza

(C) Leibniz

Unit - II (A) ~~Locke~~

(B) (C) ~~Berkeley~~

(C) ~~Hume~~

PHIG - 2nd year - paper - II - Western Logic and Psychology - unit - III & IV

Unit - III - (A) Senstion, perception

(B) consciousness

Unit - IV - (A) Memory, Forgetfulness

(B) Intellegent :

SEM - 2, (PHIA) - CC - 4 - History of western Philosophy - II

(A) Locke

(B) Berkeley

(C) Hume

SEM - 2, (PHIG) paper - CC - 2, Western Epistemology and metaphysics -

(C) Realism

(B) causality

(E) Mind body problem

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Bibek Manna

PHIA - 2nd year - paper - IV - Western Logic

Unit - I - (A) Logic and argument
(B) Immediate inference
(C) categorical syllogism
(D) Venn diagram

Unit - III - Symbolic Logic (A)
(B) - Taltologous
(C) Testing arguments
(D) Formal proof

Unit - IV - (A) & (B) Quantification Theory

SEM - 2, PHIA - paper - CC - 3, - Outlines of Indian philosophy
(A) Sankhya Darshana
(B) Yoga Darshana

SEM - 2, PHIG, paper - CC - 2
Western Epistemology and Metaphysics
(A) - Difference sense of know, ~~origin of truth~~
(B) Theories of origin of Knowledge

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POLITICAL SCIENCE

DEPARTMENT OF POLITICAL SCIENCE

Teaching Plan for UG Course

Session- July-Dec 2018

Programme	Course & Credit	Topics of Lecture (Duration: 45 mins/ 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem-I**	CC1 Understanding Political Theory: Concepts 5(Th)+1(Tu)	**Module I** 1. Politics, Political 2. State, Sovereignty 3. Law , Liberty and Equality **Module II** 4. Rights 5. Democracy 6. Citizenship	LMR (2), RS(1) SM(1), DC(1), KDN(1)
	CC2 Understanding Political Theory: Approaches and Debates 5(Th)+1(Tu)	**Module I &II** 1-3 Approaches 4-6 Marxian Approach- Lenin, Rosa & Gramsci	LMR(2),SM(2), DC(1),RS(2)
Part II	**Paper** III Government and Politics in India	**Unit I & II** Constitution and its features, Executive, Legislature and Judiciary **Unit III & IV** Party system, Electoral Process, Role of religion, caste and various movements	LMR (2),DC(1) RS(1), SM(1)
	IV International Relations	**Unit I-IV** Theories, concepts, IFP, Cold War, Regional Organization and UNO	SM(1), RS (2),KDN(2)
Part III	**Paper** V Western Political Thought	**Unit I-IV** Greek philosophers to Utopian and	LMR(2),KDN(1)RS (2)

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	VI Indian Political Thought & Movement VII Political Sociology	Scientific Socialism **Unit I-IV** Kautilya to INA **Unit I-IV** Social Stratification, Caste, Class, political participation, socialisation, development and social change	LMR(2), KDN(1)DC (2) LMR(2), KDN(1)SM(1)
	VIII Public Administration	**Unit I-IV** Major concepts, bureaucracy, local self government, Lokpal , Lokayukt	LMR(2), KDN(1),SM(1), DC(1)
Political Science General & CC/GE **Sem I** **Part II** **Part III**	CC/GE 1 Introduction to Political Theory 5(Th)+1(Tu) Paper II & III Comparative Politics and Government & Indian Government and Politics Paper IV Contemporary Political and Administrative Issues in India	**Unit I-IV** Concepts, Marxism, Fascism, Political Parties **Unit I-IV** Comparative Constitution &Indian Government and Politics **Unit I-IV** IFP, Local Self Government	LMR(2),KDN(1),SM(1) LMR(2),SM(1), RS(1) LMR(2), KDN(2)

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2019

Session- Jan-June 2019

Programme	Course & Credit	Topics of Lecture (Duration: 45 mins / 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem-II**	CC3 Constitutional Government in India 5(Th)+1(Tu)	**Module I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR (2),DC(2), KDN(2)
	CC4 Politics in India: Structures and Processes 5(Th)+1(Tu)	**Module I & II** Party system, Electoral Process, Role of religion, caste and various movements	LMR(1),RS(2), SM(3)
Part II	Paper III Government and Politics in India	**Unit I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR (2),DC(1)
		Unit III & IV Party system, Electoral Process, Role of religion, caste and various movements	RS(1), SM(1)
	Paper IV International Relations	**Unit I-IV** Theories, concepts, IFP, Cold War, Regional Organization and UNO	SM(1), RS (1)
Part III	**Paper** V Western Political Thought	**Unit I-IV** Greek philosophers to Utopian and Scientific Socialism	LMR(2), RS (2)
	VI Indian Political Thought & Movement	**Unit I-IV** Kautilya to INA	LMR(2),DC (2)
	VII Political Sociology	**Unit I-IV** Social Stratification,	LMR(2), SM(1)

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	VIII Public Administration	Caste, Class, political participation, socialisation, development and social change **Unit I-IV** Major concepts, bureaucracy, local self government, Lokpal , Lokayukt	LMR(2), SM(1), DC(1)
Political Science General & CC/GE **Sem II**	**CC/GE 2** Comparative Government and Politics 5(Th)+1(Tu)	**Module I & II** Comparative study of political systems in UK, US, PRC, Bangladesh, France and Switzerland	LMR(1), SM(2), KDN(1) DC(2)
Part II	Paper II & III Comparative Politics and Government & Indian Government and Politics	**Unit I-IV** Comparative Constitution &Indian Government and Politics	LMR(2), DC(1)
Part III	Paper IV Contemporary Political and Administrative Issues in India	**Unit I-IV** IFP, Local Self Government	LMR(2), KDN(2)

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2019

Session- July-Dec 2019

Programme	Course & Credit	Topics of Lecture (Duration: 45 mins/ 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem-I**	CC1 Understanding Political Theory: Concepts 5(Th)+1(Tu)	**Module I** 1. Politics, Political 2. State, Sovereignty 3. Law , Liberty and Equality **Module II** 4. Rights 5. Democracy 6. Citizenship	LMR (2), RS(1) SM(1), DC(1), KDN(1)
	CC2 Understanding Political Theory: Approaches and Debates 5(Th)+1(Tu)	**Module I &II** 1-3 Approaches 4-6 Marxian Approach- Lenin, Rosa & Gramsci	LMR(2),SM(1), RS(1)
Sem III	CC5 Indian Political Thought-I 5(Th)+1(Tu)	**Module I &II** Kautilya, Rammohun Roy, Bankim Chandra Chattopadhyay, Vivekananda, Tagore, Gandhi	DC(1), RS(1)
	CC6 Comparative Government and Politics 5(Th)+1(Tu)	**Module I &II** Differences, constitutional structure and functioning of political system in UK, USA, Bangladesh, Russia, France	LMR(1), RS(1)
	CC7 Perspectives on International Relations 5(Th)+1(Tu)	**Module I & II** Theories,Issues, IFP, Sino-India , Indo-US relation	SM(1), RS(1)
	SEC A(1) Democratic Awareness through legal Literacy 2(Th)	**Module I &II** FIR, Arrest, Bail, IPC, CrPC, RTI	LMR(2)
Part III	**Paper** V Western Political Thought	**Unit I-IV** Greek philosophers to Utopian and	LMR(2), RS (1)

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	VI Indian Political Thought & Movement VII Political Sociology	Scientific Socialism **Unit I-IV** Kautilya to INA **Unit I-IV** Social Stratification, Caste, Class, political participation, socialisation, development and social change **Unit I-IV**	LMR(2),DC (2) LMR(2), SM(1)
	VIII Public Administration	Major concepts, bureaucracy, local self government, Lokpal , Lokayukt	LMR(2), SM(1), DC(1)
Political Science General & CC/GE **Sem I**	CC/GE 1 Introduction to Political Theory 5(Th)+1(Tu)	**Module I &II** Concepts, Marxism, Fascism, Political Parties **Module I**	LMR(2),KDN(1)
Sem III	CC/GE 3 Government and Politics in India 5(Th)+1(Tu)	Constitution and its features, Executive, Legislature and Judiciary **Module II** Party system, Electoral Process, Role of religion, caste and various movements	LMR(2), KDN(2)
	SEC A(1) Legal Literacy 2(Th)	**Module I &II** IPC, Laws related to marriage, consumer rights, UDHR, TADA, POTA	LMR(2)
Part III	Paper IV Contemporary Political and Administrative Issues in India	**Unit I-IV** IFP, Local Self Government	LMR(2), KDN(1)

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2020

Session- Jan-June 2020

Programme	Course & Credit	Topics of Lecture (Duration: 45 mins/ 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem-II**	CC3 Constitutional Government in India 5(Th)+1(Tu)	**Module I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR(3), DC(2), KDN(1)
	CC4 Politics in India: Structures and Processes 5(Th)+1(Tu)	**Module I & II** Party system, Electoral Process, Role of religion, caste and various movements	RS(2),SM(3), KDN(1)
Sem-IV	CC8 Indian Political Thought II 5(Th)+1(Tu)	**Module I & II** Contributions of M.N.Roy, R.M.Lohia, Jayaprakash Narayan, Syed Ahmed Khan, Nehru, S.C.Bose, Ambedkar	DC(2),KDN(2),RS(1)
	CC9 Global Politics since 1945 5(Th)+1(Tu)	**Module I & II** Cold War, bilateral relations with neighbouring countries, UNO, Brexit, regional organisation like ASEAN, OPEC, SAARC, BRICS	SM(4),KDN(1), RS(2)
	CC10 Western Political Thought and Theory I 5(Th)+1(Tu)	**Module I & II** Contributions of Greek Philosopher Aristotle, Plato, Roman Thinkers, Bodin and Social Contractualist	LMR(3), RS(2), KDN(1)
	SEC B (1) Legislative Practices and Procedures 2(Th)	**Module I &II** Privileges of MLA, local administration, committee system, bill becoming an act.	LMR(2)

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Political Science General CC/GE **Sem II**	CC/GE 2 Comparative Government and Politics 5(Th)+1(Tu)	**Module I & II** Comparative study of political systems in UK, US, PRC, Bangladesh, France and Switzerland	LMR(1),KDN(1),DC(2), SM(2)
Sem IV	CC/GE 4 International Relations 5(Th)+1(Tu)	**Module I &II** Theories of IR,IFP, NAM, Cold War, its phases	LMR(2), DC(2), RS(2), SM(1)
	SEC B(1) Elementary Dimensions of Research 2(Th)	**Module I& II** Research, Techniques of data collection, Report Writing, Research Design	LMR(1), DC(1),SM(1)

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2020-21

Odd Semester (Session- July-Dec 2020) ONLINE MODE

Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem I**	CC1 Understanding Political Theory: Concepts 5(Th)+1(Tu)	**Module I** 1. Politics, Political 2. State, Sovereignty 3. Law , Liberty and Equality **Module II** 4. Rights 5. Democracy 6. Citizenship	LMR(1), SM(1)
	CC2 Understanding Political Theory: Approaches and Debates 5(Th)+1(Tu)	**Module I &II** 1-3 Approaches 4-6 Marxian Approach- Lenin, Rosa & Gramsci	RS(1),DC(1)
III	CC5 Indian Political Thought-I 5(Th)+1(Tu)	**Module I &II** Kautilya, Rammohun Roy, Bankim Chandra Chattopadhyay, Vivekananda, Tagore, Gandhi	RS(1),DC(1)
	CC6 Comparative Government and Politics 5(Th)+1(Tu)	**Module I &II** Differences, constitutional structure and functioning of political system in UK, USA, Bangladesh, Russia, France	LMR(1),DC(1)
	CC7 Perspectives of International Relation 5(Th)+1(Tu)	**Module I & II** Theories,Issues, IFP, Sino-India , Indo-US relation	KDN(1), SM(1)
V	CC11 Western Political Thought and Theory II 5(Th)+1(Tu)	**Module I& II** Bentham, Hegel to T.H.Green are discussed along with their contributions and Cultural Marxism	LMR(1), DC(1),SM(1),RS(1)
	CC12	**Module I& II**	LMR(1),RS(1), KDN(1), SM(1)

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	Political Sociology 5(Th)+1(Tu)	Political Participation, Socialisation, Political Development etc. The Impact of politics on caste, gender, military and electoral behaviour in Indian context.	

Even Semester (Session- Jan-June 2021) ONLINE MODE

Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem** **II**	CC3 Constitutional Government in India 5(Th)+1(Tu)	**Module I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR(1), SM(1),DC(1), KDN(1)
	CC4 Politics in India: Structures and Processes 5(Th)+1(Tu)	**Module I & II** Party system, Electoral Process, Role of religion, caste and various movements	LMR(1), SM(1), RS(1)
IV	CC8 Indian Political Thought II 5(Th)+1(Tu)	**Module I & II** Contributions of M.N.Roy, R.M.Lohia, Jayaprakash Narayan, Syed Ahmed Khan, Nehru, S.C.Bose, Ambedkar	LMR(1), DC(1), KDN(1)
	CC9 Global Politics since 1945 5(Th)+1(Tu)	**Module I & II** Cold War, bilateral relations with neighbouring countries, UNO, Brexit, regional organisation like ASEAN, OPEC, SAARC, BRICS	LMR(1), SM(1), RS(1)
	CC10 Western Political Thought and Theory I 5(Th)+1(Tu)	**Module I & II** Contributions of Greek Philosopher Aristotle, Plato, Roman Thinkers, Bodin and	LMR(1), RS(1)

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	SEC B (1) Legislative Practices and Procedures 2(Th)	Social Contractualist **Module I &II** Privileges of MLA, local administration, committee system, bill becoming an act.	LMR(1), DC(1)
VI	CC13 Public Administration—Concepts and Perspectives	**Module I & II** Difference between Public and Private, concepts of administration, New Public Administration, views of Marx, Weber, Administrative Processes and public Policy	LMR(1), SM(1), DC(1)
	CC14 Administration and Public Policy in India	**Module I & II** Civil Service, DM,UPSC, SPSC,SDO, Local Self Government, 73rd and 74th Amendment, Planning Commission, NITI Ayog, Committee and social welfare policies.	LMR(1), RS(1)

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Odd Semester (Session- July-Dec 2021) ONLINE MODE

Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem I**	CC1 Understanding Political Theory: Concepts 5(Th)+1(Tu)	**Module I** 1. Politics, Political 2. State, Sovereignty 3. Law , Liberty and Equality **Module II** 4. Rights 5. Democracy 6. Citizenship	LMR(1), SM(1)
	CC2 Understanding Political Theory: Approaches and Debates 5(Th)+1(Tu)	**Module I &II** 1-3 Approaches 4-6 Marxian Approach- Lenin, Rosa & Gramsci	RS(1),DC(1)
III	CC5 Indian Political Thought-I 5(Th)+1(Tu)	**Module I &II** Kautilya, Rammohun Roy, Bankim Chandra Chattopadhyay, Vivekananda, Tagore, Gandhi	RS(1),DC(1)
	CC6 Comparative Government and Politics 5(Th)+1(Tu)	**Module I &II** Differences, constitutional structure and functioning of political system in UK, USA, Bangladesh, Russia, France	LMR(1),DC(1)
	CC7 Perspectives of International Relation 5(Th)+1(Tu)	**Module I & II** Theories,Issues, IFP, Sino-India , Indo-US relation	KDN(1), SM(1)
V	CC11 Western Political Thought and Theory II 5(Th)+1(Tu)	**Module I& II** Bentham, Hegel to T.H.Green are discussed along with their contributions and Cultural Marxism	LMR(1), DC(1),SM(1),RS(1)
	CC12 Political Sociology	**Module I& II** Political Participation, Socialisation, Political	LMR(1),RS(1)

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	5(Th)+1(Tu)	Development etc. The Impact of politics on caste, gender, military and electoral behaviour in Indian context.	KDN(1), SM(1)

Even Semester (Session- Jan-June 2022) BLENDED MODE

Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem II**	CC3 Constitutional Government in India 5(Th)+1(Tu)	**Module I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR(1), SM(1), DC(1)
	CC4 Politics in India: Structures and Processes 5(Th)+1(Tu)	**Module I & II** Party system, Electoral Process, Role of religion, caste and various movements	LMR(1), RS(1) SM(2)
IV	CC8 Indian Political Thought II 5(Th)+1(Tu)	**Module I & II** Contributions of M.N.Roy, R.M.Lohia, Jayaprakash Narayan, Syed Ahmed Khan, Nehru, S.C.Bose, Ambedkar	DC(3), RS(1)
	CC9 Global Politics since 1945 5(Th)+1(Tu)	**Module I & II** Cold War, bilateral relations with neighbouring countries, UNO, Brexit, regional organisation like ASEAN, OPEC, SAARC, BRICS	RS(2),SM(2)
	CC10 Western Political Thought and Theory I 5(Th)+1(Tu)	**Module I & II** Contributions of Greek Philosopher Aristotle, Plato, Roman Thinkers, Bodin and Social Contractualist	LMR(1), RS(2)
	SEC B (1) Legislative Practices and Procedures 2(Th)	**Module I &II** Privileges of MLA, local administration,	LMR(1), DC(1)

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		committee system, bill becoming an act.	
VI	CC13 Public Administration—Concepts and Perspectives	**Module I & II** Difference between Public and Private, concepts of administration, New Public Administration, views of Marx, Weber, Administrative Processes and public Policy	DC(2), SM(1)
	CC14 Administration and Public Policy in India	**Module I & II** Civil Service, DM,UPSC, SPSC,SDO, Local Self Government, 73rd and 74th Amendment, Planning Commission, NITI Ayog, Committee and social welfare policies.	LMR(1), DC(1), RS(1)
	DSE A(4) Understanding Global Politics	**Module I & II** Sovereign State System, State Sovereignty, Global Environment, Global Civil Society, Global Inequalities	SM(1), RS(2)
	DSE B(4) Human Rights in a Comparative Perspective	**Module I & II** Human Rights, its generation, Torture in US, Caste and Race in South Africa, India, Gender and Violence	LMR(2)
Political Science General & CC/GE **Sem II**	CC/GE 2 Comparative Government and Politics 5(Th)+1(Tu)	**Module I & II** Comparative study of political systems in UK, US, PRC, Bangladesh, France and Switzerland	DC(1), SM(1), RS(1)
Sem IV	CC/GE 4 International Relations 5(Th)+1(Tu)	**Module I &II** Theories of IR,IFP, NAM, Cold War, its phases	RS(1), LMR(1)
	SEC B(1) Elementary Dimensions of Research	**Module I& II** Research, Techniques of data collection,	DC(1), LMR(2)

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Sem VI	2(Th) DSE 2B Human Rights: Theory and Indian Context 5(Th)+1(Tu) SEC B(2) Basic Research Methods	Report Writing, Research Design **Module I & II** Human Rights ,its generation, UDHR,NHRC, SHRC, Vienna Declaration, problems and issues **Module I & II** Case Study, FGD, Content Analysis, Participant observation, Interview, Questionnaire	LMR(1), RS(1), SM(1) SM(2)

Odd Semester (Session- July-Dec 2022)

Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem** **I**	CC1 Understanding Political Theory: Concepts 5(Th)+1(Tu) CC2 Understanding Political Theory: Approaches and Debates 5(Th)+1(Tu)	**Module I** 1. Politics, Political 2. State, Sovereignty 3. Law , Liberty and Equality **Module II** 4. Rights 5. Democracy 6. Citizenship **Module I &II** 1-3 Approaches 4-6 Marxian Approach- Lenin, Rosa & Gramsci	LMR(2),DC(1),RS(1) LMR(1), RS(2) SM(2)
III	CC5 Indian Political Thought-I 5(Th)+1(Tu) CC6 Comparative Government and Politics 5(Th)+1(Tu)	**Module I &II** Kautilya, Rammohun Roy, Bankim Chandra Chattopadhyay, Vivekananda, Tagore, Gandhi **Module I &II** Differences, constitutional structure and functioning of political system in UK, USA,	LMR(1), DC(2), RS(1) LMR(2),SM(2), DC(1)

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		Bangladesh, Russia, France	
	CC7 Perspectives of International Relation 5(Th)+1(Tu)	**Module I & II** Theories, Issues, IFP, Sino-India , Indo-US relation	RS(1), SM(2)
	SEC A(1) Democratic Awareness through legal Literacy 2(Th)	**Module I &II** FIR, Arrest, Bail, IPC, CrPC, RTI	LMR(2), DC(1)
V	CC11 Western Political Thought and Theory II 5(Th)+1(Tu)	**Module I& II** Bentham, Hegel to T.H.Green are discussed along with their contributions and Cultural Marxism	LMR(2),DC(1), RS(1)
	CC12 Political Sociology 5(Th)+1(Tu)	**Module I& II** Political Participation, Socialisation, Political Development etc. The Impact of politics on caste, gender, military and electoral behaviour in Indian context.	LMR(1), DC(1), SM(1)
	DSE A(1) Gender and Politics	**Module I& II** Patriarchy, Gender and Sex debate, Feminism, Women's Movement, Family, Community	RS(1) LMR(2),
	DSE B(1) Indian Foreign Policy in a Globalising World	**Module I& II** IFP, bilateral relations with USA, USSR, India in South Asia, India in multipolar world	SM(2), RS(1)
Political Science General & CC/GE **Sem I**	CC/GE 1 Introduction to Political Theory 5(Th)+1(Tu)	**Module I& II** Concepts, Marxism, Fascism, Political Parties	LMR(1), DC(1), RS(2),SM(1)
Sem III	CC/GE 3 Government and Politics in India 5(Th)+1(Tu)	**Module I** Constitution and its features, Executive, Legislature and Judiciary **Module II** Party system, Electoral	LMR(1), SM(1), RS(1)

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		Process, Role of religion, caste and various movements **Module I &II**	
Sem V	SEC A(1) Legal Literacy 2(Th) DSE 1A Public Administration	IPC, Laws related to marriage, consumer rights, UDHR, TADA, POTA **Module I &II** Public Administration, its concepts, approaches, public policy, social welfare programmes	LMR(1) SM(1), DC(2),RS(2)
	SEC A(2) Understanding Legal System	**Module I &II** Supreme Court, High Court,PIL, Family Court, Lok Adalat, Mahila Court, Election Laws	LMR(1), DC(1)

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Programme	Course & Credit	Topics of Lecture (Duration 1hour per lecture)	Name of Teacher with Allotted Lecture per week
Political Science Honours(PLSA) **Sem II**	CC3 Constitutional Government in India 5(Th)+1(Tu)	**Module I & II** Constitution and its features, Executive, Legislature and Judiciary	LMR(2), DC(2)
	CC4 Politics in India: Structures and Processes 5(Th)+1(Tu)	**Module I & II** Party system, Electoral Process, Role of religion, caste and various movements	LMR(1),RS(1), SM(1)
IV	CC8 Indian Political Thought II 5(Th)+1(Tu)	**Module I & II** Contributions of M.N.Roy, R.M.Lohia, Jayaprakash Narayan, Syed Ahmed Khan, Nehru, S.C.Bose, Ambedkar	LMR(2), DC(1), RS(1)
	CC9 Global Politics since 1945 5(Th)+1(Tu)	**Module I & II** Cold War, bilateral relations with neighbouring countries, UNO, Brexit, regional organisation like ASEAN, OPEC, SAARC, BRICS	RS(1),SM(3)
	CC10 Western Political Thought and Theory I 5(Th)+1(Tu)	**Module I & II** Contributions of Greek Philosopher Aristotle, Plato, Roman Thinkers, Bodin and Social Contractualist	LMR(2),RS(2)
	SEC B (1) Legislative Practices and Procedures 2(Th)	**Module I &II** Privileges of MLA, local administration, committee system, bill becoming an act.	LMR(2), DC(1)
VI	CC13 Public Administration— Concepts and Perspectives	**Module I & II** Difference between Public and Private, concepts of administration, New Public Administration, views of Marx, Weber, Administrative Processes and public Policy	SM(1), DC(3)
	CC14 Administration and Public Policy in India	**Module I & II** Civil Service, DM,UPSC, SPSC,SDO, Local Self Government, 73rd and 74th	

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		Amendment, Planning Commission, NITI Ayog, Committee and social welfare policies.	LMR(2),RS(1),DC(1)
	DSE A(4) Understanding Global Politics	**Module I & II** Sovereign State System, State Sovereignty, Global Environment, Global Civil Society, Global Inequalities	SM(1), RS(1)
	DSE B(4) Human Rights in a Comparative Perspective	**Module I & II** Human Rights, its generation, Torture in US, Caste and Race in South Africa, India, Gender and Violence	LMR(2),RS(1)
Political Science General & CC/GE **Sem II**	CC/GE 2 Comparative Government and Politics 5(Th)+1(Tu)	**Module I & II** Comparative study of political systems in UK, US, PRC, Bangladesh, France and Switzerland	SM(1),DC(1)
Sem IV	CC/GE 4 International Relations 5(Th)+1(Tu)	**Module I &II** Theories of IR,IFP, NAM, Cold War, its phases	LMR(1),RS(2),DC(1)
	SEC B(1) Elementary Dimensions of Research 2(Th)	**Module I& II** Research, Techniques of data collection, Report Writing, Research Design	LMR(1), DC(1)
Sem VI	DSE 2B Human Rights: Theory and Indian Context 5(Th)+1(Tu)	**Module I & II** Human Rights ,its generation, UDHR,NHRC, SHRC, Vienna Declaration, problems and issues	SM(2)
	SEC B(2) Basic Research Methods	**Module I & II** Case Study, FGD, Content Analysis, Participant observation, Interview, Questionnaire	LMR(1),SM(1)

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2022 - 23

SEMESTER	COURSE CODE	Course Title/Topic	Name of Teacher	Number of Credit	Session
Semester -1 (Honours)	CC-1	Classical Sanskrit Literature (POETRY)		06	2022-2023
		Section –A Raghuvaṃśam: Canto-I Verses: 1-25 UNIT I Verse-1-10 Introduction(Author & text), Appropriateness of Title, Grammatical Analysis, translation, explanation, Characteristics of Raghu clan. UNIT II Verse-11-25 Grammartical Analysis, meaning, translation, Explanation, role of Dilip in the welfare of Subject.	Sudeshna Basu		
		Section-B Kumārsambhavam: Canto V Verse: 1-30 UNIT I Verse: 1-15 Introduction(Author & text), Appropriateness of Title, Background of Given contents, text reading, Grammatical Analysis, translation, explanation, Poetic excellence and plot UNIT II Verse: 16-30 Grammartical Analysis, translation, Explanation, Penance of Pārvatī, Poetic excellence and Plot.	Rajyeswar Sardar		
		Section-C Kirātārjunīyam: Canto-1	Sudeshna Basu		

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		Verse:1-25 UNIT I Verse 1-10 Verse: 1-15 Introduction(Author & text), Appropriateness of Title, Background of Given contents, text reading, Grammatical Analysis, translation, explanation, Poetic excellence, Thematic Analysis UNIT II Verse 11-25 Grammartical Analysis, translation, Explanation, Poetic excellence, Thematic Analysis			
		Section –D Nītiśatakam : Verse 1-20 1st Two Paddhatis UNIT I Verse:1-10 Grammartical Analysis, translation, Explanation, UNIT II Verse: 11-20 translation, Explanation, , Thematic Analysis Bhartṛhari's Comment on Society	Partha Sarathi Bhattacharya		
		Section E Origin and Development of Mahākāvya and Gītikāvya UNIT I Origin and Development of different types of Mahākāvya with special reference to अश्वघोष, कालिदास, भारवि, माघ, भट्टि,			

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		श्रीहर्ष. UNIT II Origin and Development of Sanskrit with special reference to कालिदास, बिह्लण, जयदेव, अमरु, भर्तृहरि, and their work.	Gītikāvya		
SEMESTER –I (HONOURS)	CC-2	Critical Survey of Sanskrit Literature		06	2022-2023
		Section –A Vedic Literature: UNIT I संहिता (ऋक्, यजुस्, साम, अथर्व) UNIT II ब्राह्मण, आरण्यक, उपनिषद्, वेदाङ्ग	Partha Sarathi Bhattacharya		
		Section –B Rāmāyaṇam: UNIT I Rāmāyaṇam- Time, Subject matter, Rāmāyaṇam as an Ādikāvya. UNIT II Rāmāyaṇa-Source Text and its Cultural importance	Partha Sarathi Bhattacharya		
		Section-C Mahābhārata: UNIT I Mahābhārata and its Time, Development and Subject matter UNIT II Mahābhārata: Encycopaedic nature, as a source, of subsequent literature, Cultural important	Partha Sarathi Bhattacharya		
		Section-D Purāṇas:	Rajyeswar Sardar		

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		UNIT I Purāṇas: Subject matter, Characteristics UNIT II Purāṇas: Social, Cultural and Historical Importance			
		Section –E General introduction to Vyākaraṇa, Darśana, Sāhitya –Śāstra. UNIT I General introduction to Vyākaraṇa, Brief History of Vyākaraṇa-Śāstra. UNIT II 'General introduction to Darśana. Major school of Indian Philosophy of Cārvak, Buddha, Jaina, Sāṃkhya, Yoga,Nyāya – Vaiśeṣika, Pūrva Mīmaṃsā and Uttara Mīmaṃsā UNIT III General introduction to poetics- six Major School of Indian Poetics- Rasa , Alaṃkāra, Rīti, Dhani, vakrokti and aucitya.	Rajyeswar Sardar		
SEMESTER I (HONOURS)	CC-A1	Sanskrit Poetry Section –A Raghuvaṃśam: Canto-I Verses: 1-25 UNIT I Verse-1-10 Introduction(Author & text), Appropriateness of Title, Grammatical Analysis, translation, explanation, Characteristics of Raghu clan.		06	2022-2023

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		UNIT II Verse-11-25 Grammartical Analysis, meaning, translation, Explanation, role of Dilip in the welfare of Subject.			
		Sction –B Śiśupālaadham: Canto -1 Verses: 1-30 UNIT I Verses: 1-15 Introduction(Author & text), Appropriateness of Title, Background of Given contents, Grammar, translation, explanation, Poetic excellence, Thematic Analysis. UNIT II , Grammar, translation, explanation, Poetic excellence, Thematic Analysis. माघे सन्ति त्रयो गुणाः, मेघे माघे गतो वयः, तावद् भारवेर्भातियावन्माघस्यनोदयः।	Rajyeswar Sardar		
		Section –C Nītiśatakam : Verse 1-20 1st Two Paddhatis UNIT I Verse:1-10 Grammartical Analysis, translation, Explanation, UNIT II Verse: 11-20 translation, Explanation, , Thematic Analysis Bhartṛhari's Comment on	Partha Sarathi Bhattacharya		

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		Society			
		Section –D History of Sanskrit Poetry UNIT I अश्वघोष, कालिदास, भारवि, माघ, श्रीहर्ष, जयदेव, भर्तृहरि and their work. UNIT II Origin and Development of different types of Mahākāvya and Gītikāvya with special reference to the above mentioned Poets and their works.			

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Semester	Course Code	Course Title/ Topic	Name of Teacher	Credit	Session
SEMESTER-III (HONOURS)	CC-5	*CLASSICAL SANSKRIT LITERATURE(DRAMA)*		06	2022-2023
		Section-A Svapnavāsavadattam(Act I-IV) **Unit I** Act I-IV: Story, Meaning/Translation,Explanation. **Unit-II** Act V-VI: Characterisation, Bhāsa's Style.	Partha Sarathi Bhattacharya		
		Section-B Abhijñānaśakuntalam(Act I-IV) Unit I Introduction, Author, Explanation of terms likes नान्दी, प्रस्तावना, सूत्रधार, नटी, विष्कम्भक, विदूषक. Unit-II Text reading, Grammar, Translation, Explanation, Plot, Timing of Action, Personification of Nature, Purpose and design behind Abhijñānaśakuntalam.	Sudeshna Basu		
		Section-C Abhijñānaśakuntalam(Act V-VII) **Unit I** Society, Marriage, Tax system, Poetic excellence, Popular saying about Kālidāsa & śakuntalam. **Unit II** Language of Kālidāsa, Use of Prakrit.	Sudeshna Basu		
		Section –D Critical Survey of Sanskrit Drama **Unit I** Sanskrit Drama: Origin and Development, Nature of Sanskrit Drama. **Unit II** Sanskrit Drama: Origin and Development, works of Bhāsa, Kālidāsa, Viśākhadatta, Śudraka, Śriharṣa, Bhavabhūti, Bhaṭṭanārāyaṇaand	Rajyeswar Sardar		

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Semester	Course Code	Course Title/ Topic	Name of Teacher	Credit	Session
		Poetics and Literary Criticism			
SEMESTER- III (HONOURS)	CC-6	**Section-A** Introduction to Sanskrit Poetics **Unit I** Introduction to Poetics Origin and Development of Sanskrit Poetics, Various names of Sanskrit Poetics. **Unit II** Definition (Lakṣaṇa), Objectives (Proyojana) and Causes (Hetu) of Poetry. (After Kāvyaprakāśa)	Sudeshna Basu	06	2022-2023
		Section –B Forms of kāvya-Literature **Unit I** Forms of Poetry: Drśya, Śravya, Miśrya(Campū) (After Kāvyaprakāśa). **UNIT II** Mahākāvya, Khaṇḍakāvya, Gadyakāvya: Kathā, Ākhyāyikā, (After Sāhityadarpaṇa).	Rajyeswar Sardar		
		Section-C Śabda-Śakti and rasa sūtra **UNIT I** Power/Function of word and meaning (According to Kāvyaprakāśa) abhidhā(expression/ denotative meaning) lakṣaṇa(indication/ indicative) and vyañjanā (suggestion/ suggestive meaning) **UNIT II** Rasa: Rasa- sūtra of Bharata and its prominent expositions: utpattivāda, anupattivāda, bhuktivāda and abhivyaktivāda, alaukikattva (transcendental nature of rasa (as discussed in Kāvyaprakāśa).	Sudeshna Basu		
		Section-D Figures of speech and Meter **UNIT I**	Rajyeswar sardar		

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		Figure of Speech – Anuprāsa, Yaṃaka, Śleṣa, Uapamā, Rūpaka, Sandeha, Bhrāntimān, Apahṇuti, Utprekṣā, Atiśayokti, Tulyayogitā, Dīpaka, Dṛṣṭānta, Nidarśanā, Vyatireka, Samāsokti, Svabhāvokti, Aprastutapraśaṃsā, Arthāntaranyāsa, Kāvyaliṅga, Vibhāvanā (According to Sāhityadarpaṇa) **UNIT II** Chandas: Nature and Classification, अनुष्टुप, आर्या, इन्द्रवज्रा, उपेन्द्रवज्रा, द्रुतविलम्बितम्, उपजाति, वसन्ततिलकम्, मालिनी, शार्दूलविक्रीडितम्, स्रग्धरा (According to Chandomañjarī)			
Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
SEMESTER – III (HONOURS)	**CC-7**	*Indian Social Institutions and Polity* **SECTION-A** Indian Social Institutions: Nature and Concepts **UNIT I** **Indian Social Institutions: Definition and Scope.** Sociological Definition of Social Institutions. Trends of social Changes, Sources of Indian social Institutions (Vedic Literature Purāṇa, Rāmāyaṇa, Mahābhārata, Dharmaśāstra, Buddhist and Jain Literature, Literary Works, inscription Memories of foreign Writers) **UNIT II** **Social Institution and Dharmaśāstra Literature:** Dharmaśāstra as a special branch, studies of social Institution, sources of Dharma	Rajyeswar Sardar	06	2022-2023

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		(मनुस्मृति2.12, याज्ञवल्क्यस्मृति1.7) Different kinds of Dharma in the sense of Social Ethics (मनुस्मृति 10.63, विष्णुपुराण 2.16-17); six kinds of Dharma in the sense of Duties(मिताक्षरा टीका on याज्ञवल्क्यस्मृति 1.1) Tenfold Dharma as Ethical qualities(मनुस्मृति 6.92) Forteen Dharmaśāstra (याज्ञवल्क्यस्मृति1.3)			
		Section-B **Structure of Society and Values of Life** **UNIT I** Varṇa-System and Caste System: Four- fold division of Varṇa System,(ऋक्वेद 10.90.12, महाभारत, शान्तिपर्व-72.3-8); Division of Varṇa according to Guṇa and karma(Bhagavadgītā 4.13, 18.41-44) **UNIT II** Origin of Caste- System from Inter-Caste Marriages(महाभारत, अनुशासनपर्व -48.3-11) Emergence of non-Aryan tribes in Varṇa-System(महाभारत, शान्तिपर्व-65.13-22).Social rules for up-gradation and down-gradation of Caste- System(आपस्तम्भधर्मसूत्र 2.5.11.10-11, बौधायनधर्मसूत्र 1.8.16.13-14, मनुस्मृति 10.64, याज्ञवल्क्यस्मृति 1.96) **UNIT III** **Position of Women in the Society:** Brife survey of position of women in different stages of Society. Position of women in Mahābhārata (Anuśāsanaparva, 46.5-11, Sabhāparva 69.4-13, Praise of women in the	Partha Sarathai Bhattacharya		

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		Bṛhatsaṁhitā of Varāhamihir Strīpraśaṁsā, chapter-74.1-10) **UNIT IV** **Social Values of Life:** Social Relevance of Indian life style with special reference to Sixteen Saṁskāras, Four aims of life 'Puruṣātha Catuṣṭaya'-1. Dharma, 2. Artha, 3. Kāma, 4. Mokṣa. Four Āśramas- 1.Brahmacarya, 2.Gārhasthya, 3.Vānaprastha 4.Sannyās			
		Section-C **Indian stage of Indian Polity (From Vedic period to Buddhist Period).** Election of King by the people: Viśaś in Vedic period (ऋक्वेद,10.173;10.174 अथर्ववेद 3.4.2: 6.87.1-2). Parliamentary Institutions: ' Sabhā, Samiti' and 'Vidatha' in Vedic period (Atharvaveda,7.12.1; 12.1.6; ऋक्वेद 10.85.26); King Maker राजकर्तारः Council in Atharvaveda (3.5.6-7), Council of 'Ratnin' in शतपथब्राह्मण (5.2.5.1); Coronation Ceremony of Samrāṭ in Śatapathabrāhmaṇa(51.1.8-13; 9.4.1.1-5) Republic States in the Buddhist Period(Dīgghanikāya, Mahāparinirbbaṇa Sutta, Aṅguttaranikāya, 1.213;4.252,256) **UNIT II** **Later Stages of Indian Polity (From Kauṭilya to Mahatma Gandhi).** Concept of Welfare State in Arthaśāstra of Kauṭilya (अर्थशास्त्र, 1.13: 'मात्स्यन्यायाभिभूतः' to 'यो अस्मान् गोपायतीति') Essential Qualities of King (अर्थशास्त्र,6.1.16-	Partha Sarathi Bhattacharya		

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		18: सम्पादयत्यसम्पान्नः to जयत्येव न हीयते); State Politics 'Rājadharma'(Mahabhārata, शान्तिपर्व, 120.1-15; मनुस्मृति, 7.1-15; शुक्रनीति 1 .1-15); Constituent Elements of Jain Polity in नितिवाक्यामृत of सोमदेव (दण्डनीति-समुद्देश,9.1.18 जनपद-समुद्देश,19.1.10). Relevence of Gandhian Thought in Modern Period with special reference to 'Satyāgraha' Philosophy.			
		Section-D **Cardinal Theories and Thinkers of Indian Polity** **UNIT I** **Cardinal Theories and Thinkers of Indian Polity** Saptāṅga Theroy of State: 1.Svāmin, 2. Amātya, 3. Janapada, 4. Pura, 5. Kośa, 6. Daṇḍa and 7. Mitra (अर्थशास्त्र, 6.1. महाभारत, शान्तिपर्व, 56.5, शुक्रनीति,1.61-62). 'Maṇḍala' Theory of Inter-State Relation: 1.Ari, 2.Mitra, 3.Ari-mitra, 4.Mitra-mitra, 5.Ari-mitramitra; 'Śāḍgunya' Policy of War and Peace: 1.Sandhi, 2.Vigraha, 3.Yāna, 4.Āsana, 5.Saṁśraya, 6.Dvaidhibhāva. 'Caturvidha Upāya' for Balancing the power of State: 1.Sāma, 2.Dāna, 3.Daṇḍa, 4.Bheda; Three types of State Power 'śakti': 1.Prabhu-śakti, 2.Mantra-	Rajyeswar Sardar		

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		śakti, 3.Utsāha- śakti. **UNIT II** **Important Thinkers on Indian Policy:** Manu, Kauṭilya, Kāmandaka, Śukrācārya, SomadevaSuri, Mahatma Gandhi.			
Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester- III (HONOURS)	SEC-A - 1	**Sanskrit Writing Skill**		02	2022-2023
		1. Translation: Sanskrit to English and English to Sanskrit	Partha Sarathi Bhattacharya		
		2. Comprehension in Sanskrit	Partha Sarathi Bhattacharya		
		3. Paragraph Writtings	Rajyeswar Sardar		
		4. Letter Writtings	Rajyeswar Sardar		
		5. Essay Writtings	Rajyeswar Sardar		
Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester-III (GENERAL)	**CC-A3**	**Sanskrit Drama**		06	2022-2023
		Section-A **Abhijñānaśakuntalam: Kālidāsa** **ACT I-IV** **UNIT I** (a) Explanation of terms like नान्दी, प्रस्तावना, सूत्रधार, नटी, विष्कम्भक, विदूषक (b) Text reading (Grammar, Translation, and Explanation), Poetic excellence, Plot.	Rajyeswar Sardar		
		Section-B **Abhijñānaśakuntalam: Kālidāsa** **Act- V-VII** **UNIT I** (a) Text Reading (Grammar, Translation, Explanation), Poetic excellence, Plot,	Rajyeswar Sardar		

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		Timing of Action, Personification of nature. (b) काव्येषु नाटकम् रम्यम्, उपमा, Language of Kālidāsa, Dhavani in Kālidāsa, Purpose and design behind Abhijñānaśakuntalam and other problems related to the text.			
		Section-C **Technical Terms from Sanskrit Dramaturgy:** **UNIT I** नाटक, नाटिका, पूर्वरङ्ग, नान्दी, सूत्रधार, नेपथ्य, प्रस्तावना, कञ्चुकी एवं विदूषक। **UNIT II** अङ्क, स्वगत, प्रकाश, अपवारित, जनान्तिक, आकाशभाषित, विष्कम्भक, प्रवेशक, भरतवाक्यम्।	Partha Sarathi Bhattacharya		
		Section-D **History of Sanskrit Drama and an Introduction to Principle of Sanskrit Drama** **UNIT I** Origin and Developement **UNIT II** Some Important Dramatists and Dramas: Bhāsa, Kālidāsa, Śūdraka, Viśākhadatta, Harṣa, Bhavabhūti, and their works.			
Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester –III (GENERAL)	**SEC-A-1**	**Basic Sanskrit**		02	2022-2023
		1. Translation: Vernacular to Sanskrit and Sanskrit to Vernacular	Partha Sarathi Bhattacharya		
		2. Comprehension in Sanskrit.	Partha Sarathi Bhattacharya		
		3. Paragraph Writing	Rajyeswar Sardar		
		4. Letter writing	Rajyeswar Sardar		

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		5. Easy Writing	Rajyeswar Sardar		
Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester-V (HONOURS)	CC-11	**Section-A** **UNIT I** ऋक्वेद - अग्निसूक्त-1.1 अक्षसूक्त-10.34 हिरण्यगर्भ10.121 वाक्सूक्त-10.125 **UNIT II** शुक्लयजुर्वेद- रुद्राध्याय -16.1-14 **UNIT III** अधर्ववेद- साम्मनस्यम्-3.30 भूमि-12.1-12	Partha Sarathi Bhattacharya	06	2022-2023
		Section-B **Vedic Grammar** Declensions(शब्दरुप),Subjunctive Mood(लेट्), Gerunds(ktvārthaka, Tumarthaka), Vedic Accent and Padapāṭha.	Partha Sarathi Bhattacharya		
		Section-C **Brāhmaṇa and Upaniṣad** **UNIT I** A. Manumatsyakathā of Śatapatha Brāhmaṇa. B. Śunasepa Upākhyāna of Aitareya Brāhmaṇa.	Partha Sarathi Bhattacharya		
		Section-C **Brāhmaṇa and Upaniṣad** **UNIT II** Bṛhadaranyaka Upaniṣad- 4.4 &4.5	Sudeshna Basu		

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Semester	Course Code	Course Title/ Topic	Name of Teacher	Credit	Session
Semester-V (HONOURS)	DSE-A-1	**Darśana**		06	2022-2023
		Section –A **UNIT I** Tarkabhāṣā **UNIT II** Saptapadārthī	Rajyeswar Sardar		
		Section-B **UNIT I** Vivekcūḍāmaṇi	Partha Sarathi Bhattacharya		

Semester	Course Code	Course Title/ Topic	Name of Teacher	Credit	Session
Semester-V (HONOURS)	**CC-12**	**Sanskrit Grammar**		06	2022-2023
		Section-A The Concept of the – संज्ञासूत्र, वार्तिक, भाष्य, कर्मप्रवचनीय, निपात, गति, उपसर्ग, गुण, वृद्धि, क्ति, घि, घु, नदी, उपधा, सम्प्रसारण,	Rajyeswar Sardar		
		Section-B **General Introduction of Philology,** i) Classification of Languages, ii) Production and Classification of Sound, iii) Phonetic Laws, iv) Vedic and Classical Sanskrit, v) Ablaut, vi) Phonetic Tendencies vii) Semantics	Rajyeswar Sardar		
		Section-C कारकप्रकरणम् वैयाकरणसिद्धान्तकौमुदी	Partha Sarathi Bhattacharya		
		Section-D समासप्रकरणम्	Rajyeswar Sardar		

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Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester-V (HONOURS)	DSE-B-1	Kavya		06	2022-2023
		Section-A UNIT I Sāhityadarpaṇa, Ch-I	Sudeshna basu		
		UNIT II Sāhityadarpaṇa, Ch-II UNIT III Sāhityadarpaṇa, Ch-III	Rajyeswar Sardar		

Semester	**Course Code**	**Course Title/ Topic**	**Name of Teacher**	**Credit**	**Session**
Semester- V (GENERAL)	DSE_A_2	Indian Perspectives in Personality Development		06	2022-2023
		Section-A Historical Perspective UNIT I Historical Perspective: ऋक्वेद, 1.164.37 छान्दोग्योपनिषद्,VI.2.3, VI.8.6, VIII1.4 बृहदारण्यकोपनिषद्, II.5.18-19	Partha Sarathi Bhattacharya		
		Section-B Concept of a person UNIT I Concept of a person, Gītā, Chapter:1, Verses: 1-30 Jīva as Core and Eight-fold Nature as Cover Kṣetrajña as Core and kṣetra as Cover Chapter-13, Verses-1-2, Chapter-13, Verses-19-23. Akṣara as Core and Kṣara as Cover, Chapter-15, Verses:7-11 and 6-9.	Rajyeswar Sardar		
		Section-C Personality Types UNIT I Personality Types Gītā, Chapter-14, Verses: 5-14, Chapter-17, Verses:2-6	Rajyeswar Sardar		

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		Chapter-17, Verses:11.21			
		Section-D Measures for the behavioural Improvement UNIT I Measures for behavioural Improvement Control of Senses and Mind (Gītā: Chapter-2 Verses:59-60, 64 and 68, Chapter-3, Verses:41-43, Chapter-6, Verses:19-23. Right Faith (Gītā, Chapter-9, Verses:3, 2, 23-28, 30-34) Recognition of Svadharma-Inner Urge; (Gītā, Chapter-2, Verses:31, 41-44, Chapter-3, Verses:4, 5, 8, 27-30, 33-34, Chapter-4, Verses:18-22, Chapter-5, Verses:11-12, Chapter-7, Verses: 15, 18, 20-23, 27-29) Channelizing Innate Urges on Social Line: (Gītā, Chapter-18, Verses:41-62).			

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SEMESTER	COURSE CODE	Course Title/Topic	Name of Teacher	Number of Credit	Session
Semester-II (HONOURS)	CC-3	Classical Sanskrit Literature(PROSE)		06	2023
		Section-A Śukanāsopadeśa: UNIT I Introduction – Author and text UNIT –II Social and Political Thoughts depicted in meaning and application of saying like बाणोच्छिष्टं जगत्सर्वम्, वाणी बाणो बभूव, पञ्चाननो बाणः etc.	Partha Sarathi Bhattacharya		
		Section-B Rājavāhanacaritam: UNIT I Para 1-8 Introduction-Author, Text, TextReading(Grammar, Translation and Explanation), Poetic excellence, plot. UNIT II Reaming part-Text reading(Grammar, Translation and Explanation), Poetic excellence, plot, Society, Language and Style of Daṇḍin, Exposition of saying दण्डिनः पदलालित्यम्, कविर्दण्डी कविर्दण्डी कविर्दण्डी न संशयः	Sudeshna Basu		
		Section-C Origin and Development of prose, Important prose romances and fables UNIT I	Rajyeswar Sardar		

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		Origin and Development of prose, Important prose romances and fables i) Subandhu, Daṇdi, Bāṇa, Ambikādatta Vyās. UNIT II ii) पञ्चतन्त्र, हितोपदेश, वेतालपञ्चविंशतिका, सिंहासनद्वत्रिंशिका, पुरुषपरीक्षा, शुकसप्तति.			
Semester –II (HONOURS)	CC-4	SELF MANAGEMENT IN THE GĪTĀ		06	2023
		Section-A Cognition and Emotive apparatus UNIT I Hierarchy of Indriya, Manas, Buddhi, Ātma III, 42; XV.7 Role of the Ātma: XV. 7; CV.9 Mind is a product of Prakṛti VII.4 Properties of three Guṇas and their impact on the Mind. XIII, 5-6; XIV.5-8, II-13, XIV.17	Rajyeswar Sardar		
		Section-B UNIT I **GĪTĀ: Controlling the mind confusion and Conflict** Nature of conflict I.1; IV.16; I.45; II.6 Causal factor- ignorance-	Sudeshna Basu		

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Teaching Plan
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		II.41; Indriya II.60, Mind II.67; Rajoguṇa-III.36-39, XVI. 21; weakness of mind. II.3; IV.5 UNIT II Means of controlling the Mind Meditation difficulties- VI. 34-35; Procedure VI. 11-14, Balanced life- III.8, VI.6-7 Physical and mental Diet control-XVII.8-10 Discipline- XVII. 14-19; VI. 36			
		Section-B UNIT III Means of conflict resolution Importance of knowledge-II.52; IV.38; IV.42 Clarity of buddhi-XVIII. 30-32 Process of decision making-XVIII.63 Control over senses-II.59, 64, Surrender of Kartṛbhāva-XVIII.13-16; V.8-9 Desirelessness-II.48; II.55 Putting others before self-III.25	Rajyeswar Sardar		
		Section-C UNIT I **GĪTĀ: Self- management through devotion** Surrender of ego-II.7; IX.27, VIII.7; XI.47 Abandoning frivolous debates-VII.21; IV.11; IX.26 Acquisition of moral qualities-XII.11; XII.13-1	Partha Sarathi Bhattacharya		

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Semester-II (General)	CC-A2	Sanskrit Prose		06	2023
		Section-A Śukanāsopadeśa: UNIT I Introduction – Author / text (up to the end of the text). UNIT II Society and political thought depicted in Śukanāsopadeśa, logical meaning and application of saying.	Partha Sarathi Bhattacharya		
		Section-B Śivarājāvijayam(Niśvāsa-I) UNIT I Para 1 to 20 Introduction-Author/Text, Text reading (Grammar, Translation and Explanation) Poetic excellence, plot, Timing of Action. UNIT II From Para 21 to the end of the text. Text reading(Grammar, Translation, and Explanation), Poetic excellence, plot, timming, of Action.	Sudeshna Basu		
		Section-C Survey of Sanskrit Literature:Prose UNIT I Origin and development of prose and important prose romances:	Rajyeswar Sardar		

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		सुबन्धु, बाण, दण्डी, अम्बिकादत्त व्यास.			
		UNIT II पञ्चनन्त्र, हितोपदेश, वेतालपञ्चविंशति, सिंहासनद्वात्रिंशिका and पुरुषपरीक्षा			
SEMESTER	**COURSE CODE**	**Course Title/Topic**	**Name of Teacher**	**Number of Credit**	**Session**
Semester-IV (HONOURS)	CC-8	Indian Epigraphy, Paleography and Chronology		06	2023
		Section-A Epigraphy UNIT-I Introduction to Epigraphy and Types of Inscriptions UNIT II Importance of Indian Inscriptions in the reconstruction of Ancient Indian History and Culture UNIT III History of Epigraphical Studies in India UNIT IV History of Decipherment of Ancient Indian Scripts (Contribution of Scholars in the field of epigraph): Fleet, Cunninghum, Princep, Buhler, Ojha, D.C. Sircar.	Rajyeswar Sardar		
		Section-B **Paleography**	Rajyeswar Sardar		

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		UNIT I Antiquity of the Art of Writing UNIT II Writing Materials, Inscribers and Library UNIT III Introduction to Ancient Indian Scripts.			
		Section-C **Study of selected inscriptions** UNIT I Aśoka's Giranāra Rock Edict-1 Aśoka's Sāranātha Pillar Edict UNIT II Giranāra Inscription of Rudradāmana UNIT III Eran Pillar Inscription of Samudragupta Mehrauli Iron Pillar Inscription of Candra UNIT IV Khalimpur Copperplate Inscription of Dharmapāla	Rajyeswar Sardar		
		Section-D **Chronology** UNIT I General Introduction to Ancient Indian Chronology UNIT II System of Dating the Inscriptions(Chronograms)	Rajyeswar Sardar		

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		UNIT III Main Eras used in Inscriptions – Vikrama Era, Śaka Era and Gupta Era			
Semester –IV (HONOURS)	CC-9	**Modern Sanskrit Litreature**		06	2023
		Section –A Mahākāvya and Charitakāvya UNIT I Survey of Modern Sanskrit Literature in Bengal. UNIT II General Survey Pandit kshama Rao, P.K. Narayana Pilllai, S.B. Varmekar, Paramananda Sastri, Reaprasad Dwivedi. Janaki vallabh Sastri, Ramkaran Sarma, Jagannath Pathak, S. Surender Rajan, Shankar Dev Avatare. Haridas Siddhanta Vagisha, Mulasankar, M. Yajnika, Mahalinga Sgastri, Leela Rao Dayal, Yatindra Vimal Chowdhury, Virendra Kumar Bhattacharya.	Rajyeswar Sardar		
		Section-B Gadya and Rūpak UNIT I Śivarājāvijayam(Niśvāsa-I) by Ambika Datta Vyasa	Sudeshna Basu		
		UNIT II Atha kim – Siddheswar Chattopadhyaya.	Partha Sarathi Bhattacharya		

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		UNIT III Daridradurdaivam of Shrijiva Nyayatirtha			
		UNIT IV Rukmiṇīharaṇam(canto I) Haridas Siddhantavagisha	Sudeshna Basu		
Semester-IV (HONOURS)	CC-10	Sanskrit World Literature		06	2023
		Section-A UNIT I Sanskrit Studies in West: William Jones, Charles Wilkins, H. Wilson, MaxMuller, J.G. Buhler.	Rajyeswar Sardar		
		Section-B UNIT I Sanskrit Studies in East: Swami Vivekananda, Sri Aurobindo, Dayānanda Sarasvatī, Haridāsa Siddhāntavāgiś, Śrījīva Nyāyatīrtha, Kshitish Chandra Chatterjee, Roma Choudhuri, Paṅcānana Tarkaratna & Ramaranjan Mukherjee.	Sudeshna Basu		
		Section-C Sanskrit Fables in World Literature UNIT I Translation of Paṅcatantra in Eastern and Western Translation of Vetālapaṅcaviṃśatikā, Siṃhāsanadvātriṃśikā and Śukasaptati in Eastern UNIT II Languages and Art	Partha Sarathi Bhattacharya		
		Section-D Rāmāyaṇa and Mahābhārata in South Eastern Asia UNIT I	Partha Sarathi Bhattacharya		

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		Rāma Kathā in South Eastern Countries UNIT II Mahābhārata stories as depicted in folk cultures of SE Asia			
		Section-E Kālidasa in the West English and German translation of Kālidasa's writings and their influence on western literature and theatre.	Extended Lecture		
		Section-E Sanskrit Studies across the World i. Sanskrit Study Centre in Asia. ii. Sanskrit Study Centres in Europe iii. Sanskrit Study Centre in America.	Extended Lecture		
Semester-IV (HONOURS)	SEC-B-2	Spoken & Computational Sanskrit		02	2023
		1. Translation: English to Sanskrit And Sanskrit to English 2. Comprehension in Sanskrit	Partha Sarathi Bhattacharya		
		3. Paragraph Writing 4. Letter Writing 5. Essay Writing	Rajyeswar Sardar		
Semester-IV (GENERAL)	CC-A4	Sanskrit Grammar		06	2023
		Section-A लघुसिद्धान्तकौमुदी: संज्ञाप्रकरणम् UNIT I	Rajyeswar Sardar		

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		संज्ञाप्रकरणम्			
		Section-B लघुसिद्धान्तकौमुदी: सन्धिप्रकरणम् UNIT I Yaṇ, guṇa, dīrgha, ayādi, vṛddhi and pūrvarūpa. (b). Text reading (Grammar, Translation, Explanation), Poetic excellence, plot, timming of Action, Personification of nature. UNIT II Halsandhi: ścutva, utva, anunāsikatva, chhatva and jaśtva: UNIT III Visargasandhi: utva, lopa, ṣatva and rutva.	Partha Sarathi Bhattacharya		
		Section-C लघुसिद्धान्तकौमुदी: विभक्त्यर्थप्रकरणम् UNIT I विभक्त्यर्थप्रकरणम्	Rajyeswar Sardar		
Semester-IV (GENERAL)	SEC-B-1	Spoken & Computational Sanskrit		02	2023
		1. Translation: English to Sanskrit And Sanskrit to English 2. Comprehension in Sanskrit	Partha Sarathi Bhattacharya		
		1. Paragraph Writing 2. Letter Writing 3. Essay Writing	Rajyeswar Sardar		

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SEMESTER	COURSE CODE	Course Title/Topic	Name of Teacher	Credit	Session
Semester-VI (Honours)	CC-13	Indian Ontology and Epistemology		06	2023
		Section-A Essentials of Indian Philosophy UNIT I Meaning and purpose of darśana, general classification of philosophical schools in classical Indian philosophy UNIT II Realism (yathārthavāda or vastuvādaa) and Idealism(Pratyavāda), Monism(ekatvavāda) & Pluralism(bahutvavāda); dharma(property)-dharmī (substratum) UNIT III Causation(kāryakāraṇavāda): Naturalism(svabhāvavādaa), doctrine of pre-existence of effect(satkāryavāda), doctrine of real Transformation (pariṇāmavāda), doctrine of illusory transformation (vivartavāda), doctrine of nonpreexistence of effect in cause(asatkāryavāda and ārambhavāda)	Rajyeswar Sardar		
		Section-B Ontology(Based on Tarkasaṃgraha) UNIT I Concept of padārtha, three dharmas of padārthas, definition of Dravya,	Rajyeswar Sardar		

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		UNIT II Sāmānya, Viśeṣa, Samavāya, Abhāva. UNIT III Definations of first seven dravys and their examination; Ātman and its qualities, Manas UNIT IV Qualities (other than the qualities of the Ātman) Five types of Karma.			
		Section C Epistemology(Based on Tarkasaṃgraha) UNIT I Buddhi(jñāna)- nature of jñāna in Nyāya vaiśeṣika; smṛti-anubhav; yathārtha and ayathārtha. UNIT II Karaṇa and kāraṇa, definitions and types of pramā, kartā-kāraṇa-vyāpāra-phal, UNIT III Pratyakṣa UNIT IV Anumāna including hetvābhāsa UNIT V Upamāna and śabda pramāṇa UNIT VI Types of ayathārtha anubhava.			

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SEM-VI (HONOURS)	DSE-3	Vyākaraṇa		06	2023
		Section-A UNIT I Siddhāntakaumudī- Strīpratyaya	Partha Sarathi Bhattacharya		
		Section-B UNIT I Siddhāntakaumudī- TinantaPrakaraṇa	Partha Sarathi Bhattacharya		
		Section-C UNIT I Siddhāntakaumudī- Ajanta Puṃlinga	Partha Sarathi Bhattacharya		
SEMESTER-VI (HONOURS)	CC-14	Sanskrit Composition & Communication		06	2023
		Section- A Vibhaktyartha, Voice & kṛt UNIT I i) Vibhaktyartha Prakaraṇa of Laghusiddhāntakaumudī ii) Voice (katr, karma and bhāva UNIT II i) Selections from kṛt Prakaraṇa-from Laghusiddhāntakaumudī Major Sūtra for the formation of kṛdanta words (तव्यत्, तव्य, अनीयर्, यत्, ण्यत्, ण्वुल, तृच्, अण्, क्त, क्तवतु, शतृ, शानच्, तुमुन्, क्त्वा, ल्यप्, ल्युट्, घञ्, क्तिन्,)	Rajyeswar Sardar		
		Section –B	Rajyeswar		

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		Translation and Communication UNIT I i) Translation from Bengali/English to Sanskrit on the basis of cases, ii) Compounds and kṛt suffixes. iii) Translation from Sanskrit to Bengali and English. UNIT II Communicative Sanskrit: Spoken Sanskrit	Sardar		
		Section-C Essay UNIT I Essay (traditional subject) e.g. veda, Upaniṣad, Sanskrit Language, Saṃskṛiti, Rāmāyaṇa, Mahābgārata, Purāṇa, Gītā, principal Sanskrit poets. UNIT II Essay based on issues and topic related to modern subjects like entertainment, sports, national and international affairs and social problems.	Rajyeswar Sardar		
SEMESTE-VI	DSE-4	VEDA		06	2023

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(HONOURS)		Section –A UNIT I Eastern & Western interpretation of the Veda UNIT II Śunahśepopākhyānan of AitareyaBrāhamaṇa	Partha Sarathi Bhattacharya		
		Section-B UNIT I TaittiriyopaniṣadŚikṣāvallī(Adhyāya-I, Anuvāka:1-12	Partha Sarathi Bhattacharya		
		UNIT II Muṇḍakopaniṣad (muṇḍaka-1.2.2)	Sudeshna Basu		
SEMESTER VI (GENERAL)	DSE-3	Literary Criticism		06	2023
		Section –A Kāvyaprakāśa: Kāvyavaiśiṣṭya and KāvyaPrayojona Section –B Kāvyaprakāśa: KāvyaKaraṇa	Sudeshna Basu		
		Section- C Kāvyaprakāśa: KāvyaSvarūpa and Kāvyabheda	Rajyeswar Sardar		

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SCIENCE

BOTANY

Appendix II
Teaching Plan (2020–2023)
Assigned Teachers: Dr. DipannitaParial, Dr. Monolina Sarkar
Color Code:

Semester 1 & 2
Core Course PLANT DIVERSITY (THEORY)
BOT-G -CC1-1-Th, 2-2-Th
Total marks 75; Credits 3, Class 45 hours

Lecture No.	Topic	No. of Hours
L1 and 2	1.1. Origin of life and evolution of plant cells	2
L3	1.2. Importance of plants as source of food, fuel and theirrole in ecosystem services (as carbon sink, sequestering etc.)	1
L4 and 5	2.1.Salient features of Cyanophyceae, Chlorophyceae, Charophyceae, Phaeophyceae, RhodophyceaeandBacillariophyceae	2
L6 and 7	2.2 Criteria and system of classification (Fritsch, 1935)	2
L8 and 9	2.3. Economicimportance of algae in environment, agriculture, biotechnology and industry.	2
L10 and 11	3.1 Salient features of Myxomycota, Mastigomycotina, Zygomycotina, Ascomycotina,Basidiomycotina, Deuteromycotina.	2
L12	3.2 System of classification up to Sub-division (Ainsworth, 1973)	1
L13	3.3 Economic importance of fungi (food, medicine and agriculture)	1
L14 and 15	3.4 Fungal symbioses: Mycorrhiza,Lichen and their importance.	2
L16 and 17	4.1 Salient features of Hepaticopsida, Anthocerotopsida and Bryopsida	2
L18 and 19	4.2. System of classification up to Class (Proskauer 1957)	2
L20	4.3 Amphibian nature of bryophytes	1
L21	4.4 Economic and ecological and importance.	1
L22.23, and 24	5.1 Salient features of Psilophyta, Lycophyta, Sphenophyta and Filicophyta,	3
L25 and 26	5.2 System of classification up to Division (Gifford & Foster 1989)	2
L27	5.3 Economic importance (food, medicine & agriculture).	1
L28, L29, and L30	6.1 Salient features of Cycadophyta, Coniferophyta and Gnetophyta,	3
L31 and L32	6.2 Outline classification up to Division: Progymnospermophyta to Gnetophyta (Gifford & Foster 1989)	2
L33	6.3 Economic importance (wood, resin, essential oil & drugs).	1
L33, 34, and 35	7.1 Types and morphology of leaf, stem and root	3
L36, 37, and 38	7.2 Inflorescence types with examples	3
L39, 40, and 41	7.3 Flower: Different parts and forms of calyx, corolla, androecium and gynoecium; aestivation and placentation	3
L42, 43, and 44	7.4 Types with examples-fruits and seeds.	3

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L45-51	Anatomical studies (following double staining method) of: Stem- *Cucurbita*, sunflower and maize. Root- *Colocassia*, gram and orchid. Leaf- *Nerium*	7
L52-55	Fossil, fossilization process and factors of fossilization,	4
L56	Importance of fossil study	1
L57-58	Geological time scale	2
L59-61	Palynology - Definition, spore & pollen (brief idea), Applications.	3
L62-65	Artificial, Natural and Phylogenetic systems of classification with one example each,	4
L66-75	Diagnostic features of following families- Malvaceae, Leguminosae (Fabaceae), Cucurbitaceae, Rubiaceae, Compositae (Asteraceae), Solanaceae, Acanthaceae, Labiatae (Lamiaceae), Orchidaceae, Gramineae (Poaceae).	10
L76-77	Spot identification of Angiospermic plants of selected families	2
L78-83	Dissection, drawing and labelling, description of angiospermic plants and floral parts, floral formula and floral diagram, identification (family) from the following families: Leguminosae (Fabaceae), Malvaceae, Solanaceae, Labiateae (Lamiaceae), Acanthaceae.	6
L84-86	Phytopathology; 8.1 Symptoms - necrotic, hypoplastic and hyperplastic, 8.2 Koch's postulates	3
L87-89	8.3 Biotrophs and Necrotrophs; 8.4 Disease triangle; Pathotoxins and phytoalexins (brief concept)	3
L90-93	8.6. Symptoms, causal organism, disease cycle and control measures of plant diseases (Late blight of potato, Brown spot of Rice, Stem rot of jute).	4
L94-95	Pathological specimens (herbarium sheets) of Late blight of potato, Brown spot of rice and stem rot of jute.	2

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PLANT DIVERSITY (PRACTICAL)

BOT-.G-CC1-1-P, 2-2-P

Total marks 25; Credit 1, Class 30 hours

Lecture No.	Topic	No. of Hours
L1-2	Flower- dissection, drawing and study a) Different parts, b) Adhesion and cohesion	2
L3-6	Flower- dissection, drawing and study c) Placentation, d) Aestivation	4
L7-10	Study of ovules: types (Fresh specimens/ permanent slides/ photographs)	4
L11-14	Fruits:different types- study from fresh/ preserved specimens	4
L15-18	Inflorescence types: study from fresh/ preserved specimens	4
L19-22	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Algae (*Nostoc, Oedogonium* and *Ectocarpus*), Fungi (*Rhizopus, Ascobolus*and*Agaricus*)	4
L23-26	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Bryophytes (*Marchantia, Anthoceros* and *Funaria*), Pteridophytes (*Selaginella, Equisetum* and *Pteris*).	4
L27-30	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Gymnosperms (male cone and female cone/ megasporophyll of *Cycas, Pinus* and *Gnetum*).	4

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Semester III

CORE COURSE 3

CELL BIOLOGY, GENETICS AND MICROBIOLOGY (BOT-G-CC-3-3-TH)

THEORETICAL

(Credits 4, Lectures 60)

Lecture No.	Topic	No. of Hours
L1, 2,3, and 4	1.1 Ultrastructure of nuclear envelope, nucleolus and their functions,	4
L5 and 6	1.2 Molecular organisation of metaphase chromosome (Nucleosome concept).	2
L7, 8 and 9	2.1 deletion, duplication, inversion & translocation	3
L10 , 11 and 12	2.2 Aneuploidy & Polyploidy-types, importance and role in evolution.	3
L13	3. Central Dogma	1
L14, 15, 16, 17	3.1 Transcription	4
L18, 19, 20, 21, and 22	3.1 Translation.	5
L23, 24, 25, 26	4. Genetic Code- properties.	4
L27, 28, and 29	5. Linkage group	3
L30, 31 and 32	5. Genetic map (three-point test cross).	3
L33, 34,35, 36, 37	6. Mutation – 6.1 Point mutation (tautomerisation; transition, transversion and frame shift)	5
L38 , L39 and L40	6.2 Mutagen-physical and chemical.	3
L41, 42, 43, and 44	7. Brief concept of Split gene, Transposons.	4
L45	2.1 Viruses- Discovery, general structure	1
L46-51	2.1. Viral replication (general account), DNA virus (T-phage) Lytic and lysogenic cycle, RNA virus (TMV)	6
L52	2.1. Economic importance	1
L53-55	2.2 Bacteria- discovery, general characteristics and cell structure;	3
L56-59	2.2 Bacteria- reproduction- vegetative, asexual and recombination (conjugation, transformation and transduction)	4
L60	2.2. Economic importance	1

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PRACTICAL- CELL BIOLOGY, GENETICS AND MICROBIOLOGY
(BOT-G-CC-3-3-P)
(Credits 2)

Lecture No.	Topic	No. of Hours
L1-6	Staining (Aceto-orcein) and squash preparation of onion root tip	6
L7-13	Study of mitotic stages.	6
L14-18	Determination of mitotic index (from onion root tip).	5
L19-24	Cytological slides of meiotic stages.	6
L25-28	Workout gram staining (curd/any natural source)	4
L29-30	Different forms of bacteria (Coccus, Bacillus, Spiral)	2

SEC A
PLANT BREEDING AND BIOMETRY (BOT-G-SEC-A-3/5-1)
(Credits 2, Lectures 30)

Lecture No.	Topic	No. of Hours
L1	1.1 Introduction and objective,	1
L2	1.2 Techniques of hybridisation.	1
L3--6	2. 1. Mass selection: 2.1 Procedure, 2.2 Advantages and limitations.	4
L7-10	2. 1. Pure line selection: 2.1 Procedure, 2.2 Advantages and limitations.	4
L11-14	Heterosis and hybrid seed production.	4
L15-18	Role of mutation, polyploidy in crop improvement.	4
L19-22	Role of distant hybridization and role of biotechnology in crop improvement.	4
L23-24	5.1 Measures of central tendency (Mean, Median and Mode)	2
L25-26	5.2 Standard error and standarddeviation,.	2
L27-30	5.3 Test of significance: Chi-square test for goodness of fit	4

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SEMESTER IV
CORE COURSE 4
PLANT PHYSIOLOGY AND METABOLISM (BOT-G-CC-4-4-TH)
THEORETICAL (Credits 4, Lectures 60)

L1-2	Primary, secondary and tertiary structure,	2
L3-5	Nucleic acid- DNA structure, RNA types,	3
L6-8	Enzyme- Classifications with examples (IUBMB), Mechanism of action.	3
L9-10	Ascent of sap and Xylem cavitation	2
L11-12	Phloem transport and source-sink relation	2
L13-16	Mechanism of stomatal movement, significance.	4
L17-18	Pigments, Action spectra and Enhancement effect,	2
L19-22	Electron transport system and Photophosphorylation,	4
L23-26	C3 and C4 photosynthesis	4
L27-28	CAM- Reaction and Significance.	2
L29-32	Glycolysis & Krebs cycle— Reactions and Significance	4
L33-36	ETS and oxidative phosphorylation.	4
L37-39	Biological dinitrogen fixation	3
L40-42	Amino acid synthesis (reductive amination and transamination).	3
L43-44	Physiological roles of Auxin	2
L45-46	Physiological roles of Gibberellin	2
L47-48	Physiological roles of Cytokinin	2
L49-50	Physiological roles Ethylene, ABA	2
L51-52	Physiological roles ABA	2
L53-58	Photoperiodism (Plant types, Role of phytochrome and GA in flowering) and Vernalization	6
L59-60	Senescence (brief idea).	2

L61	Experiment on Plasmolysis.	1
L62	Measurement of leaf area (graphical method) and determination of transpiration rate per unit area by weighing method.	1
L63	Imbibition of water by dry seeds - proteinaceous and fatty seeds.	1
L64	Evolution of O_2 during photosynthesis (using graduated tube).	1
L65	Evolution of CO_2 during aerobic respiration and measurement of volume.	1

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SEC B
PLANT BIOTECHNOLOGY (BOT-G-SEC-B-4/6-3)
(Credits 2, Lectures 30)

L1	Plant tissue culture- Introduction and basic concepts	1
L2-4	Cellular potency, Callus culture and plant regeneration	3
L5-8	Micropropagation- Somatic embryogenesis and artificial seed.	4
L9-14	Protoplast culture and its application	6
L15-22	Recombinant DNA technology- Recombinant DNA, Restriction enzymes, Plasmids as vectors.	8
L23-26	Gene cloning (basic steps).	4
L27-30	Achievements in crop biotechnology- Pest resistant plant (Bt cotton), Transgenic crops with improved quality (flavr tomato and golden rice).	4

Semester VI
DSE B
ECONOMIC BOTANY (BOT-G-DSE-B-6-3-TH)
THEORETICAL (Credits 4, Lectures 60)

L1-12	Origin of cultivated plants: Concepts of centres of origin and their importance with reference to Vavilov's work.	12
L13-24	Rice- origin, morphology and uses.	12
L25-32	Legumes: General account with special reference to *Vigna*.	8
L33-44	Beverages: Tea- morphology, processing and uses.	12
L45-60	Study of the following economically important plants (Scientific names, families, parts used and importance): Cereals- Rice, wheat, Pulses- Mong, gram, Spices-Ginger, cumin, Beverages- Tea, coffee, Medicinal plants- Cinchona, neem, Ipecac, Vasaka, Oil yielding plants- Mustard, groundnut, coconut, Vegetables- Potato, raddish, bottle groud, cabbage, Fibre yielding plants- Cotton, jute, Timber yielding plants- Teak, Sal Fruits- Mango, apple, Sugar yielding plant- Sugarcane	16
L61-62	Study of economically important plants (rice/jute/ tea) through herbarium specimens and field study.	2

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Semester V

DSE A (Group A)

PHYTOCHEMISTRY AND MEDICINAL BOTANY (BOT-G-DSE-A-5-1-TH)

THEORETICAL

(Credit 4, Lectures 60)

Lecture No.	Topic	No. of Hours
L1-4	1 Medicinal botany- History, scope and importance of medicinal plants	4
L5- 14	A brief idea about indigenous medicinal sciences- Ayurbeda, Siddha and Unani. Polyherbal formulations.	10
L15	Phramacognosy- 2.1 Scope and its importance	1
L16-18	2.2 Primary metabolites	3
L19-24	2.3 Secondary metabolites- alkaloids, terpenoids, phenolics and their functions	6
L25-34	Organoleptic evaluation of crude drugs.	10
L35-37	Pharmcologically active constituents: Source plants (one example), parts used and uses of: 4.1 Steroids (Diosgenin, Digitoxin), 4.2 Tannin (Catechin), 4.3 Resins (Gingerol, Curcumnoids),	3
L38-40	Pharmcologically active constituents: Source plants (one example), parts used and uses of: 4.4 Alkaloids (Strychnine, Reserpine, Vinblastine), 4.5 Phenols (Capsaicin).	3
L41-43	Ethnobotany and folk medicine: 5.1 Brief idea, 5.2 Applications of ethnobotany,	3
L44-48	5.3. Application of natural product to certain diseases- Jaundice,	5
L49-54	5.4. Application of natural product to certain diseases Cardiac and Diabetics.	6
L55-60	5.4. Application of natural product to certain diseases Cardiac and Diabetics.	6

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PRACTICAL- PHYTOCHEMISTRY AND MEDICINAL BOTANY
(BOT-G-DSE-A-5-1-P) (Credit 2)

Lecture No.	Topic	No. of Hours
L1-4	Preparations of solution and buffer	5
L5-7	Acquaintance with laboratory instruments- Autoclave, Incubator, Water bath, Distillation plant, Analytical balance	3
L8-10	Acquaintance with laboratory instruments- Clinical centrifuge, Laminar air flow	3
L11-14	Acquaintance with laboratory instruments- pH meter, Colorimeter	4
L15-20	Qualitative test for proteins and carbohydrates, reducing and non-reducing sugar (glucose, fructose and sucrose)	6
L21-26	Tests (chemical) for tannin and alkaloid	6
L27-30	Identification of medicinal plants	3

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SEC B
PLANT BIOTECHNOLOGY (BOT-G-SEC-B-4/6-3)
(Credits 2, Lectures 30)

L1	Plant tissue culture- Introduction and basic concepts	1
L2-4	Cellular potency, Callus culture and plant regeneration	3
L5-8	Micropropagation- Somatic embryogenesis and artificial seed.	4
L9-14	Protoplast culture and its application	6
L15-22	Recombinant DNA technology- Recombinant DNA, Restriction enzymes, Plasmids as vectors.	8
L23-26	Gene cloning (basic steps).	4
L27-30	Achievements in crop biotechnology- Pest resistant plant (Bt cotton), Transgenic crops with improved quality (flavr tomato and golden rice).	4

Semester VI
DSE B
ECONOMIC BOTANY (BOT-G-DSE-B-6-3-TH)
THEORETICAL (Credits 4, Lectures 60)

L1-12	Origin of cultivated plants: Concepts of centres of origin and their importance with reference to Vavilov's work.	12
L13-24	Rice- origin, morphology and uses.	12
L25-32	Legumes: General account with special reference to *Vigna*.	8
L33-44	Beverages: Tea- morphology, processing and uses.	12
L45-60	Study of the following economically important plants (Scientific names, families, parts used and importance): Cereals- Rice, wheat, Pulses- Mong, gram, Spices-Ginger, cumin, Beverages- Tea, coffee, Medicinal plants- Cinchona, neem, Ipecac, Vasaka, Oil yielding plants- Mustard, groundnut, coconut, Vegetables- Potato, raddish, bottle groud, cabbage, Fibre yielding plants- Cotton, jute, Timber yielding plants- Teak, Sal Fruits- Mango, apple, Sugar yielding plant- Sugarcane	16
L61-62	Study of economically important plants (rice/jute/ tea) through herbarium specimens and field study.	2

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Department of Botany

Appendix II

Teaching Plan (2018 - 2019)

Assigned Teachers: Dr. DipannitaParial, Dr. Monolina Sarkar, Shrabti Chattaraj

Color Code:

Semester 1 & 2

Core Course PLANT DIVERSITY (THEORY)

BOT-1G -CC1-1-Th, 2-2-Th

Total marks 75; Credits 3, Class 45 hours

Lecture No.	Topic	No. of Hours
L1 and 2	1.1. Origin of life and evolution of plant cells	2
L3	1.2. Importance of plants as source of food, fuel and theirrole in ecosystem services (as carbon sink, sequestering etc.)	1
L4 and 5	2.1.Salient features of Cyanophyceae, Chlorophyceae, Charophyceae, Phaeophyceae, RhodophyceaeandBacillariophyceae	2
L6 and 7	2.2 Criteria and system of classification (Fritsch, 1935)	2
L8 and 9	2.3. Economicimportance of algae in environment, agriculture, biotechnology and industry.	2
L10 and 11	3.1 Salient features of Myxomycota, Mastigomycotina, Zygomycotina, Ascomycotina,Basidiomycotina, Deuteromycotina.	2
L12	3.2 System of classification up to Sub-division (Ainsworth, 1973)	1
L13	3.3 Economic importance of fungi (food, medicine and agriculture)	1
L14 and 15	3.4 Fungal symbioses: Mycorrhiza,Lichen and their importance.	2
L16 and 17	4.1 Salient features of Hepaticopsida, Anthocerotopsida and Bryopsida	2
L18 and 19	4.2. System of classification up to Class (Proskauer 1957)	2
L20	4.3 Amphibian nature of bryophytes	1
L21	4.4 Economic and ecological and importance.	1
L22.23, and 24	5.1 Salient features of Psilophyta, Lycophyta, Sphenophyta and Filicophyta,	3
L25 and 26	5.2 System of classification up to Division (Gifford & Foster 1989)	2
L27	5.3 Economic importance (food, medicine & agriculture).	1
L28, L29, and L30	6.1 Salient features of Cycadophyta, Coniferophyta and Gnetophyta,	3
L31 and L32	6.2 Outline classification up to Division: Progymnospermophyta to Gnetophyta (Gifford & Foster 1989)	2
L33	6.3 Economic importance (wood, resin, essential oil & drugs).	1
L33, 34, and 35	7.1 Types and morphology of leaf, stem and root	3
L36, 37, and 38	7.2 Inflorescence types with examples	3
L39, 40, and 41	7.3 Flower: Different parts and forms of calyx, corolla, androecium and gynoecium; aestivation and placentation	3
L42, 43, and 44	7.4 Types with examples-fruits and seeds.	3

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L45-51	Anatomical studies (following double staining method) of: Stem- *Cucurbita*, sunflower and maize. Root- *Colocassia*, gram and orchid. Leaf- *Nerium*	7
L52-55	Fossil, fossilization process and factors of fossilization,	4
L56	Importance of fossil study	1
L57-58	Geological time scale	2
L59-61	Palynology - Definition, spore & pollen (brief idea), Applications.	3
L62-65	Artificial, Natural and Phylogenetic systems of c1assification with one example each,	4
L66-75	Diagnostic features of following families- Malvaceae, Leguminosae (Fabaceae), Cucurbitaceae, Rubiaceae, Compositae (Asteraceae), Solanaceae, Acanthaceae, Labiatae (Lamiaceae), Orchidaceae, Gramineae (Poaceae).	10
L76-77	Spot identification of Angiospermic plants of selected families	2
L78-83	Dissection, drawing and labelling, description of angiospermic plants and floral parts, floral formula and floral diagram, identification (family) from the following families: Leguminosae (Fabaceae), Malvaceae, Solanaceae, Labiateae (Lamiaceae), Acanthaceae.	6
L84-86	Phytopathology; 8.1 Symptoms - necrotic, hypoplastic and hyperplastic, 8.2 Koch's postulates	3
L87-89	8.3 Biotrophs and Necrotrophs; 8.4 Disease triangle; Pathotoxins and phytoalexins (brief concept)	3
L90-93	8.6. Symptoms, causal organism, disease cycle and control measures of plant diseases (Late blight of potato, Brown spot of Rice, Stem rot of jute).	4
L94-95	Pathological specimens (herbarium sheets) of Late blight of potato, Brown spot of rice and stem rot of jute.	2

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PLANT DIVERSITY (PRACTICAL)

BOT-86 -CC1-1-P, 2-2-P

Total marks 25; Credit 1, Class 30 hours

Lecture No.	Topic	No. of Hours
L1-2	Flower- dissection, drawing and study a) Different parts, b) Adhesion and cohesion	2
L3-6	Flower- dissection, drawing and study c) Placentation, d) Aestivation	4
L7-10	Study of ovules: types (Fresh specimens/ permanent slides/ photographs)	4
L11-14	Fruits:different types- study from fresh/ preserved specimens	4
L15-18	Inflorescence types: study from fresh/ preserved specimens	4
L19-22	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Algae (*Nostoc, Oedogonium* and *Ectocarpus*), Fungi (*Rhizopus, Ascobolus*and*Agaricus*)	4
L23-26	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Bryophytes (*Marchantia, Anthoceros* and *Funaria*), Pteridophytes (*Selaginella, Equisetum* and *Pteris*).	4
L27-30	Identification on the basis of reproductive and structural features from preserved specimens/ permanent slides: Gymnosperms (male cone and female cone/ megasporophyll of *Cycas, Pinus* and *Gnetum*).	4

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Semester III

CORE COURSE 3

CELL BIOLOGY, GENETICS AND MICROBIOLOGY (BOT-G-CC-3-3-TH)

THEORETICAL

(Credits 4, Lectures 60)

Lecture No.	Topic	No. of Hours
L1, 2,3, and 4	1.1 Ultrastructure of nuclear envelope, nucleolus and their functions,	4
L5 and 6	1.2 Molecular organisation of metaphase chromosome (Nucleosome concept).	2
L7, 8 and 9	2.1 deletion, duplication, inversion & translocation	3
L10 , 11 and 12	2.2 Aneuploidy & Polyploidy-types, importance and role in evolution.	3
L13	3. Central Dogma	1
L14, 15, 16, 17	3.1 Transcription	4
L18, 19, 20, 21, and 22	3.1 Translation.	5
L23, 24, 25, 26	4. Genetic Code- properties.	4
L27, 28, and 29	5. Linkage group	3
L30, 31 and 32	5. Genetic map (three-point test cross).	3
L33, 34,35, 36, 37	6. Mutation – 6.1 Point mutation (tautomerisation; transition, transversion and frame shift)	5
L38 , L39 and L40	6.2 Mutagen-physical and chemical.	3
L41, 42, 43, and 44	7. Brief concept of Split gene, Transposons.	4
L45	2.1 Viruses- Discovery, general structure	1
L46-51	2.1. Viral replication (general account), DNA virus (T-phage) Lytic and lysogenic cycle, RNA virus (TMV)	6
L52	2.1. Economic importance	1
L53-55	2.2 Bacteria- discovery, general characteristics and cell structure;	3
L56-59	2.2 Bacteria- reproduction- vegetative, asexual and recombination (conjugation, transformation and transduction)	4
L60	2.2. Economic importance	1

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PRACTICAL- CELL BIOLOGY, GENETICS AND MICROBIOLOGY
(BOT-G-CC-3-3-P)
(Credits 2)

Lecture No.	Topic	No. of Hours
L1-6	Staining (Aceto-orcein) and squash preparation of onion root tip	6
L7-13	Study of mitotic stages.	6
L14-18	Determination of mitotic index (from onion root tip).	5
L19-24	Cytological slides of meiotic stages.	6
L25-28	Workout gram staining (curd/any natural source)	4
L29-30	Different forms of bacteria (Coccus, Bacillus, Spiral)	2

SEC A
PLANT BREEDING AND BIOMETRY (BOT-G-SEC-A-3/5-1)
(Credits 2, Lectures 30)

Lecture No.	Topic	No. of Hours
L1	1.1 Introduction and objective.	1
L2	1.2 Techniques of hybridisation.	1
L3--6	2. 1. Mass selection: 2.1 Procedure, 2.2 Advantages and limitations.	4
L7-10	2. 1. Pure line selection: 2.1 Procedure, 2.2 Advantages and limitations.	4
L11-14	Heterosis and hybrid seed production.	4
L15-18	Role of mutation, polyploidy in crop improvement.	4
L19-22	Role of distant hybridization and role of biotechnology in crop improvement.	4
L23-24	5.1 Measures of central tendency (Mean, Median and Mode)	2
L25-26	5.2 Standard error and standarddeviation,.	2
L27-30	5.3 Test of significance: Chi-square test for goodness of fit	4

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CHEMISTRY

Departmental Teaching Plan for the session 2022-2023

Subject: Chemistry (CBCS : Sem I, III & V)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CEMA-CC-1-1-Th Credit : 04	**INORGANIC CHEMISTRY-1**	**40**	
		1. Extra nuclear Structure of atom	14	DR. S.P.
		2. Acid-Base reaction	12	Mr. S. K. P.
		3. Redox reaction	14	DR. C. R. C.
		ORGANIC CHEMISTRY-1 A	**20**	
		1. Bonding and Physical Properties	18	Dr. K. A.
		2. General treatment of reaction mechanism I	02	Dr. K. A.
	CEMA-CC-1-1-P Credit : 02	**INORGANIC CHEMISTRY PRACTICAL**	**30**	Mr. S.K.P.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.
	CEMA-CC-1-2-Th Credit : 04	**PHYSICAL CHEMISTRY – 1**	**40**	
		1. Kinetic Theory and Gaseous state	20	Dr. S.B.
		2. Transport processes	08	Dr. S.B.
		3. Chemical kinetics	12	Dr. D. G.
		ORGANIC CHEMISTRY-1 B	20	
		1. Stereochemistry I	17	Mr. S. M.
		2. General treatment of reaction mechanism II	03	Mr. S. M.
	CEMA-CC-1-2-P Credit : 02	**PHYSICAL CHEMISTRY PRACTICAL**	**30**	DR. S.B.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.

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YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3-5 (Th.) Credit : 04	**PHYSICAL CHEMISTRY**	**60**	
		1.Chemical Thermodynamics – I	10	Dr. D.G.
		2.Chemical Thermodynamics – II	20	Dr. D.G.
		3. Application of Thermodynamics-I	06	Dr. D.G.
		4. Electrochemistry	24	Dr. S.B.
	CC-3-5 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY**	**45**	Dr. D.G. + Dr. S.B.
	CC-3-6 (Th.) Credit : 04	**INORGANIC CHEMISTRY**	**60**	
		1.Chemical Periodicity	15	Dr. S.P.
		2. Chemistry of s & p block elements	15	Dr. C.R.C.
		3. Noble Gas	10	Mr. S.K.P.
		4. Inorganic Polymer	05	Mr. S.K.P.
		5. Coordination Chemistry-I	15	Mr. S.K.P.
	CC-3-6 (Pr.) Credit : 02	**INORGANIC CHEMISTRY**	**45**	Dr. S.P. + Dr. C.R.C.
	CC-3-7 (Th.) Credit : 04	**ORGANIC CHEMISTRY**	**60**	
		1.Chemistry of Alkenes & Alkynes	15	Dr. K.A.
		2. Aromatic Substitution	10	Dr. K.A.
		3. Carbonyl & Related Compounds	30	Mr. S.M.
		4.Organometallic	05	Mr. S.M.

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	CC-3-7 (Pr.) Credit : 02	ORGANIC CHEMISTRY	45	Dr. K.A. + Mr. S.M.
CBCS SEM – III	SECA2 Credit : 02	**ANALYTICAL CLINICAL BIOCHEMISTRY** 1. Carbohydrate 2. Proteins 3. Enzymes 4. Lipids , Lipoproteins 5. DNA , RNA 6. Biochemistry of disease	30 05 05 05 05 05 05	 Mr. S.K.P. Mr. S.M. Mr. S.M. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
CBCS SEM - V	CC-5-11 (Th.) Credit : 04	**PHYSICAL CHEMISTRY** 1.Quantum Chemistry-II 2.Statistical Thermodynamics 3. Numerical Analysis	60 30 20 10	 Dr. D.G. Dr. S.B. Dr. S.B.
	CC-5-11 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY** **Fortran**	45	Dr. S.B. + X
	CC-5-12 (Th.) Credit : 04	**ORGANIC CHEMISTRY** 1.Carbocyles & Heterocycles 2. Cyclic Stereochemistry 3. Pericyclic Reaction 4. Carbohydrate 5. Biomolecules	60 16 10 08 14 12	 Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	CC-5-12 (Pr.) Credit : 02	**ORGANIC CHEMISTRY**	45	Dr. K.A.
	DSE A3 Credit : 04	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE** 1. Silicate Industries	60 16	 Dr. S.P.

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		2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	08 10 06 10 06 04	Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A3 Pr. **Credit : 02**	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**	**45**	Dr. C.R.C. + Mr. S.K.P.
	DSE B3 **Credit : 04**	**APPLICATION OF COMPUTERS IN CHEMISTRY** 1. Computer Programming Basics 2. Introduction to Spreadsheet Software 3. Statistical Analysis	**60** 20 25 15	 Dr. C.K.J Dr. D.G. Dr. C.K.J
	DSE B3 **Credit : 02**	**APPLICATION OF COMPUTERS IN CHEMISTRY**	**45**	Dr. D.G.

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- C.K.J = Dr. Chandan Kumar Jana
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
- D.G. = Dr. Durba Ganguly
- S.M = Mr. Sandipan Mallik

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Departmental Teaching Plan for the session 2022-2023

Subject: Chemistry [CBCS (Gen.) : Sem I , III & V]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CC-1/GE-1 (Th.) Credit : 04	**Chemistry General** 1) Kinetic Theory of Gases 2) Liquids 3) Chemical kinetics 4) Atomic Structure 5) Chemical Periodicity 6) Acids and Bases 7) Fundamental of Organic Chemistry 8) Stereochemistry 9) Nucleophilic Substitution and Elimination	**60** 10 05 05 05 05 05 05 10 10	 Dr. S.B. Dr. S.B Dr. S.B. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.M. Mr. S.M. Mr. S.M.
	CC-1/GE-1 (Pr) Credit : 02	**Inorganic Chemistry Practical**	45	Mr. S. K. P. + DR. S.B.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3/GE-3 (Th.) Credit : 04	1. Chemical Bonding and Molecular Structure 2. Comparative Study of p-Block Elements 3. Transition Elements 4. Coordination Chemistry 5. Electrochemistry 6. Aromatic Hydrocarbon 7. Organometallic Compounds 8. Aryl Halides	**60** 15 05 05 05 15 05 05 05	 DR. S.P. DR. S.P. DR. S.P. DR. S.B. DR. S.B. MR. S.M. MR. S.M. MR. S.M.

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Departmental Teaching Plan for the session 2022-2023

Subject: Chemistry [CBCS (Gen.) : Sem II , IV & VI]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2/GE-2 (Th.) Credit : 04	**Chemistry General** 1) Chemical Thermodynamics 2) Chemical Equilibrium 3) Solution 4) Phase Equation 5) Solids 6) Aliphatic Hydrocarbon 7) Error Analysis 8) Redox Reaction	**60** 15 10 05 05 05 10 05 05	 Dr. D.G. Dr. S.B. DR. D.G. Dr. S.B. Dr. S.B. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
	CC-2/GE-2 (Pr) Credit : 02	**Physical Chemistry Practical**	45	DR. D.G. + DR. S.B.
YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – IV	CC-4/GE-4 (Th.) Credit : 04	**Chemistry General** 1. Alcohol, Phenol, Ether 2. Carbonyl Compounds 3. Carboxylic Acids & Derivatives 4. Amines 5. Amino Acid, Carbohydrate 6. Crystal Field Theory 7. Quantum Chemistry & Spectroscopy	**60** 10 05 05 05 10 10 15	 DR. K.A. Mr. S.M. Dr. K.A. Mr. S.M. Dr. K.A. Mr. S.K.P. Dr. D.G.
	CC-4/GE-4 (Pr.) Credit : 02	**Qualitative Analysis of Organic Compounds**	**45**	Mr. S.M.

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CBCS SEM – VI	DSE-B1 Credit : 04	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE-B1 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Mr. S.M.

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- S.K.P. = Mr. Sumit Pal
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Departmental Teaching Plan for the session 2022-2023 (Even Semester)

Subject: Chemistry (CBCS : Sem II , IV & VI)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2-3 (Th.) Credit : 04	**Organic Chemistry** 1. Stereochemistry-II 2. Reaction Mechanism III 3. Substitution & Elimination Reaction	**60** 20 20 20	 Mr. S.M. Dr. K.A. Dr. K.A.
	CC-2-3 (Pr.) Credit : 02	**Organic Preparation**	**45**	Mr. S.M.
	CC-2-4 (Th.) Credit : 04	**Inorganic Chemistry** 1) Chemical Bonding-I 2) Chemical Bonding-II 3) Radioactivity	**60** 20 30 10	 Dr. S.P. Mr. S.K.P. Dr. C.R.C.
	CC-2-4 (Pr.) Credit : 04	**Inorganic Practical**	**45**	Dr. S.P. + Dr. C.R.C.
YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
	CC-4-8 (Th.) Credit : 04	**Organic Chemistry** 1) Nitrogen Compounds 2) Rearrangements 3) The Logic of Organic Synthesis	**60** 12 14 14	 Dr. K.A. Mr. S.M. Mr. S.M.

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		4) Organic Spectroscopy	20	Dr. K.A.
	CC-4-8 (Th.) Credit : 02	**Organic Chemistry : Qualitative Analysis**	**45**	Dr. K.A.
CBCS SEM – IV	CC-4-9(Th.) Credit : 04	**Physical Chemistry** 1.Application of Thermodynamics 2. Foundation of Quantum Mechanics 3. Crystal Structure	**60** 20 25 15	 Dr. S.B. Dr. D.G. Dr. S.B.
	CC-4-9(Pr.) Credit : 02	**Physical Chemistry**	**45**	Dr. S.B..
	CC-4-10 (Th.) Credit : 04	**Inorganic Chemistry** 1.Coordination Chemistry-II 2. Chemistry of d & f block elements 3. Reaction Kinetics & Mechanism	**60** 30 15 15	 Dr. S.P. Dr. S.K.P. Dr. C.R.C.
	CC-4-10 (Pr.) Credit : 02	**Inorganic Chemistry Practical : Preparation**	**45**	Dr. S.P. + Dr. C.R.C.
CBCS SEM – IV	SECA2 Credit : 02	**Pesticide Chemistry**	**30**	Mr. S.M. + Mr. S.K.P.
	CC-6-13 (Th.) Credit : 04	**Inorganic Chemistry** 1.Theoritical Principle in Qualitative Analysis	**60** 10	 Dr. C.R.C.

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CBCS

SEM - VI

	2.Bioinorganic Chemistry 3. Organometallic Chemistry	25 25	Dr. S.P. Mr. S.K.P.
CC-6-13 (Pr.) **Credit : 02**	**Inorganic Chemistry Practical : Qualitative Semi micro Analysis**	**45**	Mr. S.K.P.
CC-6-14 (Th.) **Credit : 04**	**Physical Chemistry** 1.Molecular Spectroscopy 2. Photochemistry & theory of reaction rate 3. Surface Phenomenon 4. Dipole moment & polarisability	**60** 25 15 15 05	 Dr. D.G. Dr. S.B. Dr. D.G. Dr. S.B.
CC-6-14 (Th.) **Credit : 02**	**Physical Chemistry Practical**	**45**	Dr. D.G.
DSE A3 **Credit : 04**	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
DSE A3 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Dr. K.A.
DSE B4 **Credit : 04**	**Dissertation**	**06**	All faculty members

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Departmental Teaching Plan for the session 2021-2022 (Even Semester)

Subject: Chemistry (CBCS : Sem II , IV & VI)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2-3 (Th.) Credit : 04	**Organic Chemistry** 1. Stereochemistry-II 2. Reaction Mechanism III 3. Substitution & Elimination Reaction	**60** 20 20 20	 Mr. S.M. Dr. K.A. Dr. K.A.
	CC-2-3 (Pr.) Credit : 02	**Organic Preparation**	**45**	Mr. S.M.
	CC-2-4 (Th.) Credit : 04	**Inorganic Chemistry** 1) Chemical Bonding-I 2) Chemical Bonding-II 3) Radioactivity	**60** 20 30 10	 Dr. S.P. Mr. S.K.P. Dr. C.R.C.
	CC-2-4 (Pr.) Credit : 04	**Inorganic Practical**	**45**	Dr. S.P. + Dr. C.R.C.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
	CC-4-8 (Th.) Credit : 04	**Organic Chemistry** 1) Nitrogen Compounds 2) Rearrangements 3) The Logic of Organic Synthesis	**60** 12 14 14	 Dr. K.A. Mr. S.M. Mr. S.M.

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		4) Organic Spectroscopy	20	Dr. K.A.
	CC-4-8 (Th.) Credit : 02	**Organic Chemistry : Qualitative Analysis**	**45**	Dr. K.A.
CBCS SEM – IV	CC-4-9(Th.) Credit : 04	**Physical Chemistry** 1.Application of Thermodynamics 2. Foundation of Quantum Mechanics 3. Crystal Structure	**60** 20 25 15	 Dr. S.B. Dr. D.G. Dr. S.B.
	CC-4-9(Pr.) Credit : 02	**Physical Chemistry**	**45**	Dr. S.B..
	CC-4-10 (Th.) Credit : 04	**Inorganic Chemistry** 1.Coordination Chemistry-II 2. Chemistry of d & f block elements 3. Reaction Kinetics & Mechanism	**60** 30 15 15	 Dr. S.P. Dr. S.K.P. Dr. C.R.C.
	CC-4-10 (Pr.) Credit : 02	**Inorganic Chemistry Practical : Preparation**	**45**	Dr. S.P. + Dr. C.R.C.
CBCS SEM – IV	SECA2 Credit : 02	**Pesticide Chemistry**	**30**	Mr. S.M. + Mr. S.K.P.
	CC-6-13 (Th.) Credit : 04	**Inorganic Chemistry** 1.Theoritical Principle in Qualitative Analysis	**60** 10	 Dr. C.R.C.

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		2.Bioinorganic Chemistry 3. Organometallic Chemistry	25 25	Dr. S.P. Mr. S.K.P.
	CC-6-13 (Pr.) Credit : 02	**Inorganic Chemistry Practical : Qualitative Semi micro Analysis**	**45**	Mr. S.K.P.
CBCS SEM - VI	CC-6-14 (Th.) Credit : 04	**Physical Chemistry** 1.Molecular Spectroscopy 2. Photochemistry & theory of reaction rate 3. Surface Phenomenon 4. Dipole moment & polarisability	**60** 25 15 15 05	 Dr. D.G. Dr. S.B. Dr. D.G. Dr. S.B.
	CC-6-14 (Th.) Credit : 02	**Physical Chemistry Practical**	**45**	Dr. D.G.
	DSE A3 Credit : 04	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE A3 Pr. Credit : 02	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Dr. K.A.
	DSE B4 Credit : 04	**Dissertation**	**06**	All faculty members

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Departmental Teaching Plan for the session 2021-2022

Subject: Chemistry (CBCS : Sem I, III & V)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CEMA-CC-1-1-Th Credit : 04	**INORGANIC CHEMISTRY-1**	**40**	
		1. Extra nuclear Structure of atom	14	DR. S.P.
		2. Acid-Base reaction	12	Mr. S. K. P.
		3. Redox reaction	14	DR. C. R. C.
		ORGANIC CHEMISTRY-1 A	**20**	
		1. Bonding and Physical Properties	18	Dr. K. A.
		2. General treatment of reaction mechanism I	02	Dr. K. A.
	CEMA-CC-1-1-P Credit : 02	**INORGANIC CHEMISTRY PRACTICAL**	**30**	Mr. S.K.P.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.
	CEMA-CC-1-2-Th Credit : 04	**PHYSICAL CHEMISTRY – 1**	**40**	
		1. Kinetic Theory and Gaseous state	20	Dr. S.B.
		2. Transport processes	08	Dr. S.B.
		3. Chemical kinetics	12	Dr. D. G.
		ORGANIC CHEMISTRY-1 B	20	
		1. Stereochemistry I	17	Mr. S. M.
		2. General treatment of reaction mechanism II	03	Mr. S. M.
	CEMA-CC-1-2-P Credit : 02	**PHYSICAL CHEMISTRY PRACTICAL**	**30**	DR. S.B.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.

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		2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	08 10 06 10 06 04	Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A3 Pr. **Credit : 02**	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**	**45**	Dr. C.R.C. + Mr. S.K.P.
	DSE B3 **Credit : 04**	**APPLICATION OF COMPUTERS IN CHEMISTRY** 1. Computer Programming Basics 2. Introduction to Spreadsheet Software 3. Statistical Analysis	**60** 20 25 15	 Dr. C.K.J Dr. D.G. Dr. C.K.J
	DSE B3 **Credit : 02**	**APPLICATION OF COMPUTERS IN CHEMISTRY**	**45**	Dr. D.G.

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Departmental Teaching Plan for the session 2021-2022

Subject: Chemistry (CBCS : Sem I, III & V)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CEMA-CC-1-1-Th Credit : 04	**INORGANIC CHEMISTRY-1**	**40**	
		1. Extra nuclear Structure of atom	14	DR. S.P.
		2. Acid-Base reaction	12	Mr. S. K. P.
		3. Redox reaction	14	DR. C. R. C.
		ORGANIC CHEMISTRY-1 A	**20**	
		1. Bonding and Physical Properties	18	Dr. K. A.
		2. General treatment of reaction mechanism I	02	Dr. K. A.
	CEMA-CC-1-1-P Credit : 02	**INORGANIC CHEMISTRY PRACTICAL**	**30**	Mr. S.K.P.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.
	CEMA-CC-1-2-Th Credit : 04	**PHYSICAL CHEMISTRY – 1**	**40**	
		1. Kinetic Theory and Gaseous state	20	Dr. S.B.
		2. Transport processes	08	Dr. S.B.
		3. Chemical kinetics	12	Dr. D. G.
		ORGANIC CHEMISTRY-1 B	20	
		1. Stereochemistry I	17	Mr. S. M.
		2. General treatment of reaction mechanism II	03	Mr. S. M.
	CEMA-CC-1-2-P Credit : 02	**PHYSICAL CHEMISTRY PRACTICAL**	**30**	DR. S.B.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.

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YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3-5 (Th.) Credit : 04	**PHYSICAL CHEMISTRY**	**60**	
		1.Chemical Thermodynamics – I	10	Dr. D.G.
		2.Chemical Thermodynamics – II	20	Dr. D.G.
		3. Application of Thermodynamics-I	06	Dr. D.G.
		4. Electrochemistry	24	Dr. S.B.
	CC-3-5 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY**	**45**	Dr. D.G. + Dr. S.B.
	CC-3-6 (Th.) Credit : 04	**INORGANIC CHEMISTRY**	**60**	
		1.Chemical Periodicity	15	Dr. S.P.
		2. Chemistry of s & p block elements	15	Dr. C.R.C.
		3. Noble Gas	10	Mr. S.K.P.
		4. Inorganic Polymer	05	Mr. S.K.P.
		5. Coordination Chemistry-I	15	Mr. S.K.P.
	CC-3-6 (Pr.) Credit : 02	**INORGANIC CHEMISTRY**	**45**	Dr. S.P. + Dr. C.R.C.
	CC-3-7 (Th.) Credit : 04	**ORGANIC CHEMISTRY**	**60**	
		1.Chemistry of Alkenes & Alkynes	15	Dr. K.A.
		2. Aromatic Substitution	10	Dr. K.A.
		3. Carbonyl & Related Compounds	30	Mr. S.M.
		4.Organometallic	05	Mr. S.M.

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	CC-3-7 (Pr.) Credit : 02	ORGANIC CHEMISTRY	45	Dr. K.A. + Mr. S.M.
CBCS SEM – III	SECA2 Credit : 02	**ANALYTICAL CLINICAL BIOCHEMISTRY** 1. Carbohydrate 2. Proteins 3. Enzymes 4. Lipids , Lipoproteins 5. DNA , RNA 6. Biochemistry of disease	30 05 05 05 05 05 05	 Mr. S.K.P. Mr. S.M. Mr. S.M. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
CBCS SEM - V	CC-5-11 (Th.) Credit : 04	**PHYSICAL CHEMISTRY** 1.Quantum Chemistry-II 2.Statistical Thermodynamics 3. Numerical Analysis	60 30 20 10	 Dr. D.G. Dr. S.B. Dr. S.B.
	CC-5-11 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY** **Fortran**	45	Dr. S.B. + X
	CC-5-12 (Th.) Credit : 04	**ORGANIC CHEMISTRY** 1.Carbocyles & Heterocycles 2. Cyclic Stereochemistry 3. Pericyclic Reaction 4. Carbohydrate 5. Biomolecules	60 16 10 08 14 12	 Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	CC-5-12 (Pr.) Credit : 02	**ORGANIC CHEMISTRY**	45	Dr. K.A.
	DSE A3 Credit : 04	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE** 1. Silicate Industries	60 16	 Dr. S.P.

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		2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	08 10 06 10 06 04	Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A3 Pr. **Credit : 02**	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**	**45**	Dr. C.R.C. + Mr. S.K.P.
	DSE B3 **Credit : 04**	**APPLICATION OF COMPUTERS IN CHEMISTRY** 1. Computer Programming Basics 2. Introduction to Spreadsheet Software 3. Statistical Analysis	**60** 20 25 15	 Dr. C.K.J Dr. D.G. Dr. C.K.J
	DSE B3 **Credit : 02**	**APPLICATION OF COMPUTERS IN CHEMISTRY**	**45**	Dr. D.G.

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Departmental Teaching Plan for the session 2021-2022

Subject: Chemistry [CBCS (Gen.) : Sem II , IV & VI]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2/GE-2 (Th.) Credit : 04	**Chemistry General** 1) Chemical Thermodynamics 2) Chemical Equilibrium 3) Solution 4) Phase Equation 5) Solids 6) Aliphatic Hydrocarbon 7) Error Analysis 8) Redox Reaction	**60** 15 10 05 05 05 10 05 05	 Dr. D.G. Dr. S.B. DR. D.G. Dr. S.B. Dr. S.B. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
	CC-2/GE-2 (Pr) Credit : 02	**Physical Chemistry Practical**	45	DR. D.G. + DR. S.B.
YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – IV	CC-4/GE-4 (Th.) Credit : 04	**Chemistry General** 1. Alcohol, Phenol, Ether 2. Carbonyl Compounds 3. Carboxylic Acids & Derivatives 4. Amines 5. Amino Acid, Carbohydrate 6. Crystal Field Theory 7. Quantum Chemistry & Spectroscopy	**60** 10 05 05 05 10 10 15	 DR. K.A. Mr. S.M. Dr. K.A. Mr. S.M. Dr. K.A. Mr. S.K.P. Dr. D.G.
	CC-4/GE-4 (Pr.) Credit : 02	**Qualitative Analysis of Organic Compounds**	**45**	Mr. S.M.

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CBCS SEM – VI	DSE-B1 Credit : 04	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE-B1 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Mr. S.M.

- C.R.C. = Dr. Chittaranjan Chanda
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
- D.G. = Dr. Durba Ganguly
- S.M = Mr. Sandipan Mallik

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Departmental Teaching Plan for the session 2020-2021

Subject: Chemistry (CBCS : Sem I, III & V)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CEMA-CC-1-1-Th Credit : 04	**INORGANIC CHEMISTRY-1**	**40**	
		1. Extra nuclear Structure of atom	14	DR. S.P.
		2. Acid-Base reaction	12	Mr. S. K. P.
		3. Redox reaction	14	DR. C. R. C.
		ORGANIC CHEMISTRY-1 A	**20**	
		1. Bonding and Physical Properties	18	Dr. K. A.
		2. General treatment of reaction mechanism I	02	Dr. K. A.
	CEMA-CC-1-1-P Credit : 02	**INORGANIC CHEMISTRY PRACTICAL**	**30**	Mr. S.K.P.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.
	CEMA-CC-1-2-Th Credit : 04	**PHYSICAL CHEMISTRY – 1**	**40**	
		1. Kinetic Theory and Gaseous state	20	Dr. S.B.
		2. Transport processes	08	Dr. S.B.
		3. Chemical kinetics	12	Dr. D. G.
		ORGANIC CHEMISTRY-1 B	20	
		1. Stereochemistry I	17	Mr. S. M.
		2. General treatment of reaction mechanism II	03	Mr. S. M.
	CEMA-CC-1-2-P Credit : 02	**PHYSICAL CHEMISTRY PRACTICAL**	**30**	DR. S.B.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.

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YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3-5 (Th.) Credit : 04	**PHYSICAL CHEMISTRY**	**60**	
		1.Chemical Thermodynamics – I	10	Dr. D.G.
		2.Chemical Thermodynamics – II	20	Dr. D.G.
		3. Application of Thermodynamics-I	06	Dr. D.G.
		4. Electrochemistry	24	Dr. S.B.
	CC-3-5 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY**	**45**	Dr. D.G. + Dr. S.B.
	CC-3-6 (Th.) Credit : 04	**INORGANIC CHEMISTRY**	**60**	
		1.Chemical Periodicity	15	Dr. S.P.
		2. Chemistry of s & p block elements	15	Dr. C.R.C.
		3. Noble Gas	10	Mr. S.K.P.
		4. Inorganic Polymer	05	Mr. S.K.P.
		5. Coordination Chemistry-I	15	Mr. S.K.P.
	CC-3-6 (Pr.) Credit : 02	**INORGANIC CHEMISTRY**	**45**	Dr. S.P. + Dr. C.R.C.
	CC-3-7 (Th.) Credit : 04	**ORGANIC CHEMISTRY**	**60**	
		1.Chemistry of Alkenes & Alkynes	15	Dr. K.A.
		2. Aromatic Substitution	10	Dr. K.A.
		3. Carbonyl & Related Compounds	30	Mr. S.M.
		4.Organometallic	05	Mr. S.M.

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	CC-3-7 (Pr.) Credit : 02	ORGANIC CHEMISTRY	45	Dr. K.A. + Mr. S.M.
CBCS SEM – III	SECA2 Credit : 02	**ANALYTICAL CLINICAL BIOCHEMISTRY** 1. Carbohydrate 2. Proteins 3. Enzymes 4. Lipids , Lipoproteins 5. DNA , RNA 6. Biochemistry of disease	30 05 05 05 05 05 05	 Mr. S.K.P. Mr. S.M. Mr. S.M. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
CBCS SEM - V	CC-5-11 (Th.) Credit : 04	**PHYSICAL CHEMISTRY** 1.Quantum Chemistry-II 2.Statistical Thermodynamics 3. Numerical Analysis	60 30 20 10	 Dr. D.G. Dr. S.B. Dr. S.B.
	CC-5-11 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY** **Fortran**	45	Dr. S.B. + X
	CC-5-12 (Th.) Credit : 04	**ORGANIC CHEMISTRY** 1.Carbocyles & Heterocycles 2. Cyclic Stereochemistry 3. Pericyclic Reaction 4. Carbohydrate 5. Biomolecules	60 16 10 08 14 12	 Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	CC-5-12 (Pr.) Credit : 02	**ORGANIC CHEMISTRY**	45	Dr. K.A.
	DSE A3 Credit : 04	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE** 1. Silicate Industries	60 16	 Dr. S.P.

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		2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	08 10 06 10 06 04	Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A3 Pr. **Credit : 02**	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**	**45**	Dr. C.R.C. + Mr. S.K.P.
	DSE B3 **Credit : 04**	**APPLICATION OF COMPUTERS IN CHEMISTRY** 1. Computer Programming Basics 2. Introduction to Spreadsheet Software 3. Statistical Analysis	**60** 20 25 15	 Dr. C.K.J Dr. D.G. Dr. C.K.J
	DSE B3 **Credit : 02**	**APPLICATION OF COMPUTERS IN CHEMISTRY**	**45**	Dr. D.G.

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- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
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Departmental Teaching Plan for the session 2020-2021 (Even Semester)

Subject: Chemistry (CBCS : Sem II , IV & VI)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2-3 (Th.) Credit : 04	**Organic Chemistry** 1. Stereochemistry-II 2. Reaction Mechanism III 3. Substitution & Elimination Reaction	**60** 20 20 20	 Mr. S.M. Dr. K.A. Dr. K.A.
	CC-2-3 (Pr.) Credit : 02	**Organic Preparation**	**45**	Mr. S.M.
	CC-2-4 (Th.) Credit : 04	**Inorganic Chemistry** 1) Chemical Bonding-I 2) Chemical Bonding-II 3) Radioactivity	**60** 20 30 10	 Dr. S.P. Mr. S.K.P. Dr. C.R.C.
	CC-2-4 (Pr.) Credit : 04	**Inorganic Practical**	**45**	Dr. S.P. + Dr. C.R.C.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
	CC-4-8 (Th.) Credit : 04	**Organic Chemistry** 1) Nitrogen Compounds 2) Rearrangements 3) The Logic of Organic Synthesis	**60** 12 14 14	 Dr. K.A. Mr. S.M. Mr. S.M.

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		4) Organic Spectroscopy	20	Dr. K.A.
	CC-4-8 (Th.) Credit : 02	**Organic Chemistry : Qualitative Analysis**	**45**	Dr. K.A.
BCS EM – IV	CC-4-9(Th.) Credit : 04	**Physical Chemistry** 1.Application of Thermodynamics 2. Foundation of Quantum Mechanics 3. Crystal Structure	**60** 20 25 15	 Dr. S.B. Dr. D.G. Dr. S.B.
	CC-4-9(Pr.) Credit : 02	**Physical Chemistry**	**45**	Dr. S.B..
	CC-4-10 (Th.) Credit : 04	**Inorganic Chemistry** 1.Coordination Chemistry-II 2. Chemistry of d & f block elements 3. Reaction Kinetics & Mechanism	**60** 30 15 15	 Dr. S.P. Dr. S.K.P. Dr. C.R.C.
	CC-4-10 (Pr.) Credit : 02	**Inorganic Chemistry Practical : Preparation**	**45**	Dr. S.P. + Dr. C.R.C.
BCS EM – IV	SECA2 Credit : 02	**Pesticide Chemistry**	**30**	Mr. S.M. + Mr. S.K.P.
	CC-6-13 (Th.) Credit : 04	**Inorganic Chemistry** 1.Theoritical Principle in Qualitative Analysis	**60** 10	 Dr. C.R.C.

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		2.Bioinorganic Chemistry 3. Organometallic Chemistry	25 25	Dr. S.P. Mr. S.K.P.
	CC-6-13 (Pr.) **Credit : 02**	**Inorganic Chemistry Practical : Qualitative Semi micro Analysis**	**45**	Mr. S.K.P.
CBCS **SEM - VI**	**CC-6-14 (Th.)** **Credit : 04**	**Physical Chemistry** 1.Molecular Spectroscopy 2. Photochemistry & theory of reaction rate 3. Surface Phenomenon 4. Dipole moment & polarisability	**60** 25 15 15 05	 Dr. D.G. Dr. S.B. Dr. D.G. Dr. S.B.
	CC-6-14 (Th.) **Credit : 02**	**Physical Chemistry Practical**	**45**	Dr. D.G.
	DSE A3 **Credit : 04**	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE A3 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Dr. K.A.
	DSE B4 **Credit : 04**	**Dissertation**	**06**	All faculty members

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Departmental Teaching Plan for the session 2020-2021

Subject: Chemistry [CBCS (Gen.) : Sem II , IV & VI]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2/GE-2 (Th.) Credit : 04	**Chemistry General** 1) Chemical Thermodynamics 2) Chemical Equilibrium 3) Solution 4) Phase Equation 5) Solids 6) Aliphatic Hydrocarbon 7) Error Analysis 8) Redox Reaction	**60** 15 10 05 05 05 10 05 05	 Dr. D.G. Dr. S.B. DR. D.G. Dr. S.B. Dr. S.B. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
	CC-2/GE-2 (Pr) Credit : 02	**Physical Chemistry Practical**	45	DR. D.G. + DR. S.B.
YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – IV	CC-4/GE-4 (Th.) Credit : 04	**Chemistry General** 1. Alcohol, Phenol, Ether 2. Carbonyl Compounds 3. Carboxylic Acids & Derivatives 4. Amines 5. Amino Acid, Carbohydrate 6. Crystal Field Theory 7. Quantum Chemistry & Spectroscopy	**60** 10 05 05 05 10 10 15	 DR. K.A. Mr. S.M. Dr. K.A. Mr. S.M. Dr. K.A. Mr. S.K.P. Dr. D.G.
	CC-4/GE-4 (Pr.) Credit : 02	**Qualitative Analysis of Organic Compounds**	**45**	Mr. S.M.

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CBCS SEM – VI	DSE-B1 Credit : 04	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE-B1 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Mr. S.M.

- C.R.C. = Dr. Chittaranjan Chanda
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
- D.G. = Dr. Durba Ganguly
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Departmental Teaching Plan for the session 2020-2021

Subject: Chemistry [CBCS (Gen.) : Sem I , III & V]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CC-1/GE-1 (Th.) Credit : 04	**Chemistry General**	**60**	
		1) Kinetic Theory of Gases	10	Dr. S.B.
		2) Liquids	05	Dr. S.B
		3) Chemical kinetics	05	Dr. S.B.
		4) Atomic Structure	05	Mr. S.K.P.
		5) Chemical Periodicity	05	Mr. S.K.P.
		6) Acids and Bases	05	Mr. S.K.P.
		7) Fundamental of Organic Chemistry	05	Mr. S.M.
		8) Stereochemistry	10	Mr. S.M.
		9) Nucleophilic Substitution and Elimination	10	Mr. S.M.
	CC-1/GE-1 (Pr) Credit : 02	**Inorganic Chemistry Practical**	45	Mr. S. K. P. + DR. S.B.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3/GE-3 (Th.) Credit : 04		**60**	
		1. Chemical Bonding and Molecular Structure	15	DR. S.P.
		2. Comparative Study of p-Block Elements	05	DR. S.P.
		3. Transition Elements	05	DR. S.P.
		4. Coordination Chemistry	05	DR. S.B.
		5. Electrochemistry	15	DR. S.B.
		6. Aromatic Hydrocarbon	05	MR. S.M.
		7. Organometallic Compounds	05	MR. S.M.
		8. Aryl Halides	05	MR. S.M.
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	CC-3/GE-3 (Pr.) Credit : 02	INORGANIC CHEMISTRY	45	Dr. K.A. + MR. S.K.P.
CBCS SEM – V	DSE A2 Credit : 04	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE 1. Silicate Industries 2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	60 16 08 10 06 10 06 04	 Dr. S.P. Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A2 Pr. Credit : 02	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	45	Dr. C.R.C. + Mr. S.K.P.

- C.R.C. = Dr. Chittaranjan Chanda
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- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
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Departmental Teaching Plan for the session 2019-2020

Subject: Chemistry (CBCS : Sem I, III & V)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CEMA-CC-1-1-Th Credit : 04	**INORGANIC CHEMISTRY-1**	**40**	
		1. Extra nuclear Structure of atom	14	DR. S.P.
		2. Acid-Base reaction	12	Mr. S. K. P.
		3. Redox reaction	14	DR. C. R. C.
		ORGANIC CHEMISTRY-1 A	**20**	
		1. Bonding and Physical Properties	18	Dr. K. A.
		2. General treatment of reaction mechanism I	02	Dr. K. A.
	CEMA-CC-1-1-P Credit : 02	**INORGANIC CHEMISTRY PRACTICAL**	**30**	Mr. S.K.P.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.
	CEMA-CC-1-2-Th Credit : 04	**PHYSICAL CHEMISTRY – 1**	**40**	
		1. Kinetic Theory and Gaseous state	20	Dr. S.B.
		2. Transport processes	08	Dr. S.B.
		3. Chemical kinetics	12	Dr. D. G.
		ORGANIC CHEMISTRY-1 B	20	
		1. Stereochemistry I	17	Mr. S. M.
		2. General treatment of reaction mechanism II	03	Mr. S. M.
	CEMA-CC-1-2-P Credit : 02	**PHYSICAL CHEMISTRY PRACTICAL**	**30**	DR. S.B.
		ORGANIC CHEMISTRY PRACTICAL	**15**	Mr. S. M.

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YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3-5 (Th.) Credit : 04	**PHYSICAL CHEMISTRY**	**60**	
		1.Chemical Thermodynamics – I	10	Dr. D.G.
		2.Chemical Thermodynamics – II	20	Dr. D.G.
		3. Application of Thermodynamics-I	06	Dr. D.G.
		4. Electrochemistry	24	Dr. S.B.
	CC-3-5 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY**	**45**	Dr. D.G. + Dr. S.B.
	CC-3-6 (Th.) Credit : 04	**INORGANIC CHEMISTRY**	**60**	
		1.Chemical Periodicity	15	Dr. S.P.
		2. Chemistry of s & p block elements	15	Dr. C.R.C.
		3. Noble Gas	10	Mr. S.K.P.
		4. Inorganic Polymer	05	Mr. S.K.P.
		5. Coordination Chemistry-I	15	Mr. S.K.P.
	CC-3-6 (Pr.) Credit : 02	**INORGANIC CHEMISTRY**	**45**	Dr. S.P. + Dr. C.R.C.
	CC-3-7 (Th.) Credit : 04	**ORGANIC CHEMISTRY**	**60**	
		1.Chemistry of Alkenes & Alkynes	15	Dr. K.A.
		2. Aromatic Substitution	10	Dr. K.A.
		3. Carbonyl & Related Compounds	30	Mr. S.M.
		4.Organometallic	05	Mr. S.M.

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	CC-3-7 (Pr.) Credit : 02	ORGANIC CHEMISTRY	45	Dr. K.A. + Mr. S.M.
CBCS SEM – III	SECA2 Credit : 02	**ANALYTICAL CLINICAL BIOCHEMISTRY** 1. Carbohydrate 2. Proteins 3. Enzymes 4. Lipids , Lipoproteins 5. DNA , RNA 6. Biochemistry of disease	30 05 05 05 05 05 05	 Mr. S.K.P. Mr. S.M. Mr. S.M. Mr. S.M. Mr. S.K.P. Mr. S.K.P.
CBCS SEM - V	CC-5-11 (Th.) Credit : 04	**PHYSICAL CHEMISTRY** 1.Quantum Chemistry-II 2.Statistical Thermodynamics 3. Numerical Analysis	60 30 20 10	 Dr. D.G. Dr. S.B. Dr. S.B.
	CC-5-11 (Pr.) Credit : 02	**PHYSICAL CHEMISTRY** **Fortran**	45	Dr. S.B. + X
	CC-5-12 (Th.) Credit : 04	**ORGANIC CHEMISTRY** 1.Carbocyles & Heterocycles 2. Cyclic Stereochemistry 3. Pericyclic Reaction 4. Carbohydrate 5. Biomolecules	60 16 10 08 14 12	 Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	CC-5-12 (Pr.) Credit : 02	**ORGANIC CHEMISTRY**	45	Dr. K.A.
	DSE A3 Credit : 04	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE** 1. Silicate Industries	60 16	 Dr. S.P.

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		2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	08 10 06 10 06 04	Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A3 Pr. **Credit : 02**	**INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**	**45**	Dr. C.R.C. + Mr. S.K.P.
	DSE B3 **Credit : 04**	**APPLICATION OF COMPUTERS IN CHEMISTRY** 1. Computer Programming Basics 2. Introduction to Spreadsheet Software 3. Statistical Analysis	**60** 20 25 15	 Dr. C.K.J Dr. D.G. Dr. C.K.J
	DSE B3 **Credit : 02**	**APPLICATION OF COMPUTERS IN CHEMISTRY**	**45**	Dr. D.G.

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- C.K.J = Dr. Chandan Kumar Jana
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
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- K.A. = Dr. Krishnendu Aich
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Sammilani Mahavidyalaya
E.M. By Pass, Baghajatin
Kolkata-700094

ATTESTED

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Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Departmental Teaching Plan for the session 2019-2020 (Even Semester)

Subject: Chemistry (CBCS : Sem II , IV & VI)

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2-3 (Th.) Credit : 04	**Organic Chemistry** 1. Stereochemistry-II 2. Reaction Mechanism III 3. Substitution & Elimination Reaction	**60** 20 20 20	 Mr. S.M. Dr. K.A. Dr. K.A.
	CC-2-3 (Pr.) Credit : 02	**Organic Preparation**	**45**	Mr. S.M.
	CC-2-4 (Th.) Credit : 04	**Inorganic Chemistry** 1) Chemical Bonding-I 2) Chemical Bonding-II 3) Radioactivity	**60** 20 30 10	 Dr. S.P. Mr. S.K.P. Dr. C.R.C.
	CC-2-4 (Pr.) Credit : 04	**Inorganic Practical**	**45**	Dr. S.P. + Dr. C.R.C.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
	CC-4-8 (Th.) Credit : 04	**Organic Chemistry** 1) Nitrogen Compounds 2) Rearrangements 3) The Logic of Organic Synthesis	**60** 12 14 14	 Dr. K.A. Mr. S.M. Mr. S.M.

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		4) Organic Spectroscopy	20	Dr. K.A.
	CC-4-8 (Th.) Credit : 02	**Organic Chemistry : Qualitative Analysis**	**45**	Dr. K.A.
CBCS SEM – IV	CC-4-9(Th.) Credit : 04	**Physical Chemistry** 1.Application of Thermodynamics 2. Foundation of Quantum Mechanics 3. Crystal Structure	**60** 20 25 15	 Dr. S.B. Dr. D.G. Dr. S.B.
	CC-4-9(Pr.) Credit : 02	**Physical Chemistry**	**45**	Dr. S.B..
	CC-4-10 (Th.) Credit : 04	**Inorganic Chemistry** 1.Coordination Chemistry-II 2. Chemistry of d & f block elements 3. Reaction Kinetics & Mechanism	**60** 30 15 15	 Dr. S.P. Dr. S.K.P. Dr. C.R.C.
	CC-4-10 (Pr.) Credit : 02	**Inorganic Chemistry Practical : Preparation**	**45**	Dr. S.P. + Dr. C.R.C.
CBCS SEM – IV	SECA2 Credit : 02	**Pesticide Chemistry**	**30**	Mr. S.M. + Mr. S.K.P.
	CC-6-13 (Th.) Credit : 04	**Inorganic Chemistry** 1.Theoritical Principle in Qualitative Analysis	**60** 10	 Dr. C.R.C.

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CBCS SEM - VI		2.Bioinorganic Chemistry 3. Organometallic Chemistry	25 25	Dr. S.P. Mr. S.K.P.
	CC-6-13 (Pr.) **Credit : 02**	**Inorganic Chemistry Practical : Qualitative Semi micro Analysis**	**45**	Mr. S.K.P.
	CC-6-14 (Th.) **Credit : 04**	**Physical Chemistry** 1.Molecular Spectroscopy 2. Photochemistry & theory of reaction rate 3. Surface Phenomenon 4. Dipole moment & polarisability	**60** 25 15 15 05	 Dr. D.G. Dr. S.B. Dr. D.G. Dr. S.B.
	CC-6-14 (Th.) **Credit : 02**	**Physical Chemistry Practical**	**45**	Dr. D.G.
	DSE A3 **Credit : 04**	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE A3 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Dr. K.A.
	DSE B4 **Credit : 04**	**Dissertation**	**06**	All faculty members

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Departmental Teaching Plan for the session 2019-2020

Subject: Chemistry [CBCS (Gen.) : Sem I , III & V]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : I	CC-1/GE-1 (Th.) Credit : 04	**Chemistry General**	**60**	
		1) Kinetic Theory of Gases	10	Dr. S.B.
		2) Liquids	05	Dr. S.B
		3) Chemical kinetics	05	Dr. S.B.
		4) Atomic Structure	05	Mr. S.K.P.
		5) Chemical Periodicity	05	Mr. S.K.P.
		6) Acids and Bases	05	Mr. S.K.P.
		7) Fundamental of Organic Chemistry	05	Mr. S.M.
		8) Stereochemistry	10	Mr. S.M.
		9) Nucleophilic Substitution and Elimination	10	Mr. S.M.
	CC-1/GE-1 (Pr) Credit : 02	**Inorganic Chemistry Practical**	45	Mr. S. K. P. + DR. S.B.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – III	CC-3/GE-3 (Th.) Credit : 04		**60**	
		1. Chemical Bonding and Molecular Structure	15	DR. S.P.
		2. Comparative Study of p-Block Elements	05	DR. S.P.
		3. Transition Elements	05	DR. S.P.
		4. Coordination Chemistry	05	DR. S.B.
		5. Electrochemistry	15	DR. S.B.
		6. Aromatic Hydrocarbon	05	MR. S.M.
		7. Organometallic Compounds	05	MR. S.M.
		8. Aryl Halides	05	MR. S.M.
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	CC-3/GE-3 (Pr.) Credit : 02	INORGANIC CHEMISTRY	45	Dr. K.A. + MR. S.K.P.
CBCS SEM – V	DSE A2 Credit : 04	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE 1. Silicate Industries 2. Fertilizers 3. Surface Coatings 4. Batteries 5. Alloys 6. Catalysis 7. Chemical Explosives	60 16 08 10 06 10 06 04	 Dr. S.P. Dr. S.P. Dr. S.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P. Mr. S.K.P.
	DSE A2 Pr. Credit : 02	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	45	Dr. C.R.C. + Mr. S.K.P.

- C.R.C. = Dr. Chittaranjan Chanda
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
- D.G. = Dr. Durba Ganguly
- S.M = Mr. Sandipan Mallik

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Departmental Teaching Plan for the session 2019-2020

Subject: Chemistry [CBCS (Gen.) : Sem II , IV & VI]

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS Semester : II	CC-2/GE-2 (Th.) Credit : 04	**Chemistry General**	**60**	
		1) Chemical Thermodynamics	15	Dr. D.G.
		2) Chemical Equilibrium 3) Solution	10	Dr. S.B.
		4) Phase Equation	05	DR. D.G.
		5) Solids	05	Dr. S.B.
		6) Aliphatic Hydrocarbon	05	Dr. S.B.
		7) Error Analysis	10	Mr. S.M.
		8) Redox Reaction	05	Mr. S.K.P.
			05	Mr. S.K.P.
	CC-2/GE-2 (Pr) Credit : 02	**Physical Chemistry Practical**	45	DR. D.G. + DR. S.B.

YEAR	PAPER	TOPIC	NO.OF LECTURES ALLOTTED	TO BE TAKEN BY
CBCS SEM – IV	CC-4/GE-4 (Th.) Credit : 04	**Chemistry General**	**60**	
		1. Alcohol, Phenol, Ether	10	DR. K.A.
		2. Carbonyl Compounds	05	Mr. S.M.
		3. Carboxylic Acids & Derivatives	05	Dr. K.A.
		4. Amines	05	Mr. S.M.
		5. Amino Acid, Carbohydrate	10	Dr. K.A.
		6. Crystal Field Theory	10	Mr. S.K.P.
		7. Quantum Chemistry & Spectroscopy	15	Dr. D.G.
	CC-4/GE-4 (Pr.) Credit : 02	**Qualitative Analysis of Organic Compounds**	**45**	Mr. S.M.

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CBCS SEM – VI	DSE-B1 Credit : 04	**Green Chemistry & Chemistry of Natural Products** 1) Introduction of Green Chemistry 2) Principles of Green Chemistry 3) Example of Green Synthesis 4) Future Trends 5) Alkaloids 6) Terpenes	**60** 04 16 20 12 05 03	 Mr. S.M. Dr. K.A. Dr. K.A. Mr. S.M. Mr. S.M. Mr. S.M.
	DSE-B1 Pr. **Credit : 02**	**Green Chemistry & Chemistry of Natural Products Practical**	**45**	Mr. S.M.

- C.R.C. = Dr. Chittaranjan Chanda
- S.P. = Dr. Shefali Pal
- S.K.P. = Mr. Sumit Pal
- S.B. = Dr. Senjuti Banik
- K.A. = Dr. Krishnendu Aich
- D.G. = Dr. Durba Ganguly
- S.M = Mr. Sandipan Mallik

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Work Load Distribution of Semester I , III & V , 2023

Teachers' Name / Semester	1st Sem Major NEP (Theory)	1st Sem Major NEP (Practical)	1st Sem Minor NEP (Theory)	1st Sem Minor NEP (Practical)	3rd Sem CEMA CBCS (Theory)	3rd Sem CEMA CBCS (Practical)	3rd Sem CEMG CBCS (Theory)	3rd Sem CEMG CBCS (Practical)	5th Sem CEMA CBCS (Theory)	5th Sem CEMA CBCS (Practical)	5th Sem CEMG CBCS (Theory)	5th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	1	--	--	2	3	3	1	--	4(DSE)	--	4(DSE)	---	14
Dr. Chandan Kumar Jana									2(DSE)				02
Dr. Chittaranjan Chanda	1(SEC)				2	3			1	3(DSE)		3(DSE)	10
Mr. Sumit Pal	1(SEC)	2	--	--	1(SEC)	--	--	3	1(DSE)	3(DSE)	1(DSE)	3(DSE)	11
Dr. Durba Ganguly	1	--	--	--	2	3	--	--	2	3	--	--	11
Dr. Senjuti Banik	1(SEC)	2(SEC)	1	2	1	--	1	--	2	2	--	--	12
Dr. Krishnendu Aich	1	--	1	2	1	--	--	3	1	3	--	--	12
Mr. Sandipan Mallik	--	--	1	2	1+ 1(SEC)	3	1	--	2	--	--	--	11
Total Classes	6	4	3	8	12	12	3	6	15	14	5	6	94

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Teachers' Name / Semester	Work Load Distribution of Semester II , IV & VI , 2023												
	2nd Sem CEMA CBCS (Theory)	2nd Sem CEMA CBCS (Practical)	2nd Sem CEMG CBCS (Theory)	2nd Sem CEMG CBCS (Practical)	4th Sem CEMA CBCS (Theory)	4th Sem CEMA CBCS (Practical)	4th Sem CEMG CBCS (Theory)	4th Sem CEMG CBCS (Practical)	6th Sem CEMA CBCS (Theory)	6th Sem CEMA CBCS (Practical)	6th Sem CEMG CBCS (Theory)	6th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	3	3	--	--	2	3	--	--	1+1(DSE)	3	--	--	16
Dr. Chandan Kumar Jana													
Dr. Chittaranjan Chanda	2	3	--	--	1	--	--	--	1	--	--	--	7
Mr. Sumit Pal	1	--	1	--	1(SEC)+1	--	1	3	2	3	--	--	13
Dr. Durba Ganguly	--	--	--	4	1	--	1	--	2+1(DSE)	3	--	--	12
Dr. Senjuti Banik	--	--	1	4	1	3	--	--	2+1(DSE)	--	--	--	12
Dr. Krishnendu Aich	2	--	--	--	2	3	1	3	1(DSE)+1(DSE)	3(DSE)	1(DSE)	3(DSE)	16
Mr. Sandipan Mallik	1	3	1	--	1(SEC)+1	--	1	--	1(DSE)+1(DSE)	3(DSE)	1(DSE)	3(DSE)	13
Total Classes	9	9	3	8	11	9	4	6	15	15	2	6	97

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COMPUTER SCIENCE

Even Semester Teaching Plan, 2023

Semester (HONS)	Name of the Subject	Name of the Teacher	Number of Classes / Week
2ND SEM	Data Structure Th.	SB	4
	Data Structure using c Lab	BM	4
	Basic Electronics Device and Circuits Th.	AS	4
	Basic Electronics Device and Circuits Lab.	AS	4
4TH Sem	Data communication, Networking and internet technology Th.	BM	4
	Data communication, Networking and internet technology. Lab	BS	4
	Introduction to Algorithms & its application. Th.	SSS	4
	Algorithms. Lab.	SD	4
	Microprocessor and its applications	AS,SD	2+2
	Programming with Microprocessor 8085 Lab	AS,SD	2+2
	E-Commerce	DK	2
6th Sem	Software Engineering	BM	4
	Theory of ComputationTh	SSS	4
	Project		
	Multimedia and its applications Th.	DK	4
	Multimedia and its applications Lab.	BS+DK,BS	4
	Introduction to computational Intelligence Th.	SSS	4
	Introduction to computational Intelligence Lab.	SSS	4

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CMSG

Semester	Name of the Subject	Name of TheTeacher	Number of Classes /Week	
2nd	Algorithm and data Structure	BS	4	
	Programming With C Lab.	BM	4	
4th	Operating System	DK	4	
	Shell Programming (Linux) Lab.	SD	4	
6th	Computational Mathematics Th.	SB	4	
	Computational Mathematics Lab using C	SB	4	
	Multimedia and its Applications	DK	2	

SSS= Swagata Saha Sau

BM= Brototi Mondal

AS=Arindam Saha

DK=Debasish Kundu

SD=Suchandra Das

BM=Bidyapati Sahoo

SB=Sunandana Banerjee

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Department of Computer Science
Odd Semester Teaching Plan, 2022

Semester (HONS)	Name of the Subject	Name of the Teacher	Number of Classes / Week
1st sem	**Digital Logic Th.**	BS	4
	Digital Logic Lab	AS	4
	Programming Fundamental using c	BM	4
	Programming in c Lab	BM	4
3rd Sem	Computer Organization and Architecture	AS	4
	Computer Organization Lab	AS	2
	Computational Maths Th.	SD	4
	Computational Maths Lab	BS	2
	OS Th.	SSS	4
	OS Lab	BS	4
	Computer Graphics Th.	SSS	4
5th Sem	DBMS Th.	BM	4
	RDMS Lab. using My SQL and PHP	BM	4
	OOPs Th.	SB	4
	OOPs Lab	SB	4
	Digital Image Processing Th.	SSS	4
	Digital Image Processing Lab.	SSS	4
	Programming using Python Th.	SD	4
	Programming using Python Lab.	SD	4

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CMSG

Semester	Name of the Subject	Name of the Teacher	Number of Classes / Week
1ST	Computer Fundamentals and Digital Logic Design	DK	4
	Word Processing, Spreadsheet, Presentation and Web design by HTML	DK	2
3RD	CO Th.	SB	3
	Programming using Python Lab.	BS	2
5TH	DBMS Th.	DK	3
	DBMS using SQL Lab.	DK	2
	Software Engineering	DK,SM	1+1

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Department of Computer Science
EvenSemester Teaching Plan,2022

Semester (HONS)	Name of the Subject	Name of the Teacher	Number of Classes / Week
2ND SEM	Data Structure Th.	SB	4
	Data Structure using c Lab	BM	4
	Basic Electronics Device and Circuits Th.	AS	4
	Basic Electronics Device and Circuits Lab.	AS	4
4TH Sem	Data communication, Networking and internet technology Th.	BM	4
	Data communication, Networking and internet technology. Lab	BS	4
	Introduction to Algorithms & its application. Th.	SSS	4
	Algorithms. Lab.	SD	4
	Microprocessor and its applications	AS,SD	2+2
	Programming with Microprocessor 8085 Lab	AS,SD	2+2
	E-Commerce	DK	2
6th Sem	Software Engineering	BM	4
	Theory of Computati on	SSS	4
	Project		
	Multimedia and its applications Th.	DK	4
	Multimedia and its applications Lab.	BS	4
	Introduction to computational Intelligence Th.	SSS	4
	Introduction to computational Intelligence Lab.	SSS	4

CMSG

Semester	Name of the Subject	Name of TheTeacher	Number of Classes /Week
2nd	Algorithm and data Structure	BS	4
	Programming With C Lab.	SD,BM	2+2
4th	Operating System	SD,BM	2+2
	Shell Programming (Linux) Lab.	DK	4
6th	Object Oriented Programming Th.	SB	4
	Object Oriented Programming by Java Lab.	SB	4
	Multimedia and its Applications	DK	2

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Department of Computer Science
Teaching Plan, 2019-2020

Semester (HONS)	Name of the Subject	Name of the Teacher	Number of Classes / Week
1st sem	**Digital Logic Th.**	BS,SB	2+2
	Digital Logic Lab	AS,SD	4+4
	Programming Fundamental using c	SSS	4
	Programming in c Lab	BM,BS	6+2
3rd Sem	Computer Organization and Architecture	SB	4
	Computer Organization Lab	AS+SD	4
	Computational Maths Th.	SD	2
	Computational Maths Lab	DK	4
	OS Th.	SSS	4
	OS Lab	BS	4
	Computer Graphics Th.	BS , SSS	2+2
Part -III	Microprocessor Th.	AS	1
	Computer Organization	SD	1
	Computer Networks Th.	BM,ADG	3+1
	Object-Oriented Programming	SB	3
	Software Engineering	BM	1
	Computer Graphics Th.	SSS	2
	Database Management System	BM	2
	Microprocessor Programming & I/O Interfacing Lab	AS	2
	RDBMS LAB	ADG	2
	VB LAB	ADG	2
	Object-Oriented Programming Lab.	SB	2
	UNIX Shell Programming Lab.	BS+SSS	2+4

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Semester	Name of the Subject	Name of the Teacher	Number of Classes / Week
1ST Sem	Computer Fundamentals and Digital Logic Design	DK,BM	2+2
	Word Processing, Spreadsheet, Presentation and Web design by HTML	BS	2
3RD Sem	CO Th.	BS,DK	1+3
	Programming using Python Lab.	ADG	4
	Communication, Computer Network and Internet.Th.	BM	2
Part-III	Communication and Computer Network Th.		
	Unix / Linux and Shell Programming Lab.	DK	1
	Programming in Visual Basic Lab.	DK	1

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Department of Computer Science

Odd Semester (CBCS) & Part II & III (1+1+1 system)Teaching Plan, 2018

Semester (HONS)	Name of the Subject	Name of the Teacher	Number of Classes / Week
1st sem	**Digital Logic Th.**	BS	2
	Digital Logic Lab	AS+SD,SD	4+4
	Programming Fundamental using c	SSS	4
	Programming in c Lab	BM,BM+SB	4
Part II	Discrete Mathematical Structures Th.	SB	1
	Numerical Methods and Algorithms Th.	SD	1
	Formal Languages and Automata Theory	SSS	2
	Data Structure-II Th.	SSS	4
	Programming through C Language Th.	BM	2
	Software: C Language(LAB)	BM	2
Part III	Microprocessor Th.	AS	2
	Computer Networks Th.	SB,ADG	2+1
	Object-Oriented Programming	BS	2
	Software Engineering	ADG	2
	Computer Graphics Th.	SSS	4
	Database Management System	BM	2
	Microprocessor Programming & I/O Interfacing Lab	AS	4
	RDBMS LAB	BS	2
	Object-Oriented Programming Lab.	BS,SD	2+2
	UNIX Shell Programming Lab.	SSS,DK	2+2

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CMSG

Semester	Name of the Subject	Name of the Teacher	Number of Classes / Week
1ST Sem	Computer Fundamentals and Digital Logic Design	BS+AS+DK+BM	1+1+1+1
	Word Processing, Spreadsheet, Presentation and Web design by HTML	BS	2
Part II	Algorithms & Data Structure.Th	DK	2
	Software Engineering.Th	BS	1
	Database Management System Th.	BM	2
	Word processing and c LAB.	DK	2
Part III	Communication and Computer Network Th.	BS, DK	1+2
	Unix / Linux and Shell Programming Lab.	DK	2
	Programming in Visual Basic Lab.	DK+ADG	2

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SD=Suchandra Das

BM=Bidyapati Sahoo

SB=Sunandana Banerjee

Workload distribution 2023(Odd Sem)

Name of Teacher	1st sem			3rd sem		5th sem		Total
	Honours	IDC	Gen.	Honours	Gen.	Honours	General	
Swagata Saha Sau				8		8		16
Brototi Mondal	8					8		16
Arindam Saha	4			8				12
Debashis Kundu		2				4	4	12
Bidyapati Sahoo	3	1		8				12
Suchandra Das				4		8		12
Sunandana Banerjee	4					8		12

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Workload distribution even sem 2023

Name of Teacher	2nd sem		4th sem		6th sem		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau			4		12		16
Brototi Mondal	4				8		16
Arindam Saha	8		4				12
Debashis Kundu			2	4	6		12
Bidyapati Sahoo		4	4			4	12
Suchandra Das		4	8				12
Sunandana Banerjee	4					8	12

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Workload distribution odd sem 2022

Sl no	Name of Teacher	1st sem		3rd sem		5th sem		Total
		Honours	General	Honours	General	Honours	General	
1	Swagata Saha Sau			8		8		16
2	Brototi Mondal	8				8		16
3	Arindam Saha	4		8				12
4	Debashis Kundu		6				6	12
5	Bidyapati Sahoo	4		6	2			12
6	Suchandra Das			4		8		12
7	Sunandana Banerjee				3	8	1	12

Swagata Saha Sau
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Workload distribution 2022(ODD Sem)

Name of Teacher	1st sem		3rd sem		5th sem		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau			4		12		16
Brototi Mondal	8				8		16
Arindam Saha	4		8				12
Debashis Kundu		4				7	12
Bidyapati Sahoo	4		4		4		12
Suchandra Das			4		8		12
Sunandana Banerjee				2	8	2	12

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Workload distribution 2022(Even Sem)

Name of Teacher	2nd sem		4th sem		6th sem		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau			4		12		16
Brototi Mondal	4	4	4		4		16
Arindam Saha	8		4				12
Debashis Kundu			4	4	4		12
Bidyapati Sahoo	4		4		4		12
Suchandra Das			8	4			12
Sunandana Banerjee	4					8	12

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Workload distribution 2019-2020

Name of Teacher	1st sem		3rd sem		3rd year		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau	4		8		4		16
Brototi Mondal	6	1		2	7		16
Arindam Saha	4		2		5		11
Debashis Kundu		2		4		5	11
Bidyapati Sahoo	4	2			4	1	11
Suchandra Das	4		3		4		11
Sunandana Banerjee	2		4	1	4		11

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Workload distribution 2018-2019

Odd sem(CBCS) & 2nd year(1+1+1-ystem), 3rd year (1+1+1-system)

Name of Teacher	`1st sem(CBCS)		2nd year(1+1+1)		3rd year(1+1+1)		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau			6		10		16
Brototi Mondal	7	1	4	2	2		16
Arindam Saha	2		2		7		11
Debashis Kundu		2		5		4	11
Bidyapati Sahoo	2	2	2		4	1	11
Suchandra Das	6		3		2		11
Sunandana Banerjee	6	`	3		2		11

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Workload distribution 2018-2019

Even sem(CBCS) & 2nd year(1+1+1-ystem), 3rd year (1+1+1-system)

Name of Teacher	2nd sem(CBCS)		2nd year(1+1+1)		3rd year(1+1+1)		Total
	Honours	General	Honours	General	Honours	General	
Swagata Saha Sau			6		10		16
Brototi Mondal	7	1	4	2	2		16
Arindam Saha	2		2		7		11
Debashis Kundu		2		5		4	11
Bidyapati Sahoo	2	2	2		4	1	11
Suchandra Das	6		3		2		11
Sunandana Banerjee	6		3		2		11

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GEOGRAPHY

DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B. Sc Honours In Geography (Under CBCS)

Session – 2022 - 2023

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC1 (Geotectonics and gGeomorphology)	4(th)+ 2(pr)	**Unit – I Geotectonics** **1.** Earth's tectonic and structural evolution with ref to geological time scale(3) **2.** Earth's interior and Isostacy(3) **3.** Plate tectonics(10)		AM
			Unit – II Geomorphology **5.** Degradational processes – weathering and mass wasting(4) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			Unit – I Geotectonics **4.** Folds and faults(4) **Unit – II Geomorphology** **8.**Development of river network and landforms on granite, basalt and limestone. (4) **12.**Role of time in geomorphology – Schumm and Lichty's model and models on landscape evolution – Davis, Penck, King and Hack (8)	-	AP
			Unit – II Geomorphology **6.** Processes of entrainment, transportation and deposition and role of human in landform development. (4) **9.** Coastal processes and	**3.** Extraction and interpretation of geomorphic information from Survey of India topographical maps.(35).	PDG

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			landforms(4)	**4.** Construction of hypsometric curveand derivation of hypsometric integer(5)	
			Unit – II Geomorphology **10.**Glacial and glacio-fluvial processes and landforms. (4)	**1.** Measurement of dip and strike using clinometer(6) **2.** Megascopic identification of rock and mineral samples(14	KM
			Unit – II Geomorphology **7.** Development of river network and landforms onuniclinal and folded structure, surface expression of faults. (7) **11.**Aeolian and fluvio-aeolian processes and landforms (4)		NR
	CC 2 (Cartographic Techniques)	4 (th)+2(pr)	**1.** Maps – components and classification(4) **2.**Scales – plain, comparative, diagonal and vernier (8) **3.**.Representation of data using dots, spheres and proportional circles (5)	**1.** Construction of scales(16)	KM
			4.Concept of generating globe. (2) **5.**Grids – angular and linear system of measurement. (5) **8.** Map projection – classification, properties and uses(8) **9.** Concept and significance of UTM projection(2)	**2.** Construction of projections – Polar zenithal stereographic, simple conic with one standard parallel, Bonne's and cylindrical equal area (17)	PDG
			6.Bearing – magnetic and true, whole circle and reduced (5) **12.**Survey of India topographical maps – reference scheme and the information on the margin (6)	**2.** Construction of projections – Mercator's(3) **3.** Thematic maps – Proportional squares, divided proportional circles, dots and spheres (12)	AP
				4. Thematic maps – Choropleth, isopleths and chorochromatic(12)	AM
			11. Representation of data using isopleths, choropleth and chorochromatic maps (5)		SG

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B.Sc General with Geography (Under CBCS)

Session 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC1 (Physical geography)	4 (th)+ 2(pr)	**Unit 1 Geotectonics** **1.**Eart's interior (3) **2.**Plate tectonics. (7) **3.**Folds and faults. (6)	**16.**.Extraction of drainage information from SOI topographical maps (20)	AM
			Unit II Geomorphology **4.**Degradational processes – weathering, mass wasting (4) **5.**Principal geomorphic agents and landforms– fluvial, coastal, Aeolian and glacial.(12) **6.**Models of slope evolution . (6)	)	SG
			Unit III Hydrology **7.** Global hydrologic cycle(2) **8** Run off(3) **9**Drainage basin as a hydrological unit (3)	**15.** ..Extraction of physiographic information from SOI topographical maps (20)	NR
			Unit IV Oceanography **10.** Physical and chemical properties of ocean water(4) **11,** Ocean circulation, wave, tide(7) **12.**Marine resources 3)	**13.** Megascopic identification of rocks(8) **14.** Megascopic identification of minerls(12)	AP

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B. Sc Honours In Geography (Under CBCS)

Session – 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC5 (Climatology)	4 (th)+2(pr)	**Unit – I Elements of Atmosphere** **1.** Nature, composition and layering of atmosphere. (4) **2.** Insolation. (6) **4.**Overview of climate change. (4)		SG
			Unit – II Atmospheric phenomena and climatic classification **5.** Condensation (6) **8.** Weather Stability and instability (5) **9.** Circulation in the atmosphere. (5) **10.** Atmospheric disturbance. (5) **12.** Climatic classification. (5)-	**2.** Interpretation of daily weather map of India. (20) **4.** Construction and interpretation of wind rose. (10)	AM
				1. Measurement of weather elements using analogue instruments. (15)-	KM
			-	**3.** Construction and interpretation of hythergraph and climograph. (15)	AP
			Unit – I Elements of Atmosphere **3.** Temperature. (6) **Unit – II Atmospheric phenomena and climatic classification** **6.** Air mass. (4) **7.** Fronts. (5)	-	No teacher

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			12. Monsoon. (5)		
	CC 6 (Hydrology and Oceanography)	4 (th)+2(pr)	**Unit – II Oceanography** **5.** Major relief features of the ocean floor. (6) **6.** Physical and chemical properties of ocean water. (4) **7.** Water mass. (4) **8,** Air sea interaction. (8) **9.** Ocean temperature and salinity. (4) **10.** Coral reefs. (5)	**1.** Construction and interpretation of rating curve. (10) **2.** Construction and interpretation of hydrograph and unit hydrograph. (15) **3.** Construction and interpretation of monthly rainfall dispersion diagram. (25) **4.** Construction of Theissen polygon. (10)	PDG
			Unit – I Hydrology **1.** Systems approach in hydrology. (5) **2.** Run-off. (5)	-	AP
			Unit – I Hydrology **3.** Drainage basin as a hydrological unit. (5) **4.** Groundwater. (5) **Unit – II Oceanography** **11.** Marine resource. (4) **12.** Sea level change. (5)	-	No teacher
	CC7 (Statistical Methods in Geography)	4 (th)+2(pr)	**Unit – I Frequency distribution and sampling -** **6.** Importance and significance of statistics in geography. (4) **7.** Discrete and continuous data. (5) **8.** Sources of geographical data for statistical analysis. (4) **9.** Collection of data and preparation of table. (5) **10.** Sampling. (4) **11.** Theoretical distribution. (6)	**18.** Construction of data matrix. (15) **19.** Measures of central tendency. (15) **20.** Sampling. (15)	KM
			Unit – II Numerical data analysis – **12.** Central tendency. (6) **13.** Measures of	**21.** Scatter diagram, linear regression, residual mapping. (15)	NR

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			dispersion range. (6) **14.** Association and correlation. (5) **15.** Regression. (5) **16.** Time series analysis. (5) **17.** Hypothesis testing. (5)		
	SEC A (Tourism Management)	2(th)	**1.** Scope and nature. (10) **2.** Use of information on factors for tourism planning. (5) **3.** Tourism impact assessment. (8)	No practical component	NR
			4. Increasing global tourism and tourism in India. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B.Sc General with Geography (Under CBCS)

Session 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	CC3 (Human Geography)	4 (th)+ 2(pr)	**Unit 1 Economic geography** **1.** Sectors of economy. (5) **2.** Location of economic activities. (5) **4.** Globalization. (5)	**2.** Time series analysis. (20)	AM
			Unit II Social Geography **5.** Human society. (5) **6.** Types and characteristics of social organizations. (5) **7.** Race, language and religion. (6) **8.** Social issues. (5)	**3.** Arithmetic growth rate. (15) **4.** Nearest Neighbour analysis. (10)	AP
			Unit III Cultural geography **1.** Carl Sauer. (6) **3.** Cultural regions and cultural realms. (5) **4.** Diffusion of culture and innovations. (4)	**1.** State wise variation in occupational structure. (15)	SG
			Unit I Economic geography **3.** Location of industries. (5) **Unit III Cultural geography** **2.** Rural and urban settlements. (5)	-	No teacher
	SEC A (Coastal Management)	2(th)	**1.** Components of coastal zone. (7)	No practical component	AM
			2. Environmental impact and management of oil exploration, salt manufacturing, land reclamation and tourism. (8) **3.** Coastal hazards and their management. (8)		AP
			4. Principles of coastal zone management. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

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B. Sc Honours In Geography -Semester V

(Under CBCS)

Session - 2022- 2023

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC11 (Research Methodology and Fieldwork)	4 (th)+2(pr)	**Unit I Research methodology** **1.** Meaning, type and significance of research in geography. (5) **2.** Literature review and formulation of research design. (5) **3.** Defining research problem. (6) 4. Research materials and methods. (4) **5.** Techniques of writing scientific report. (6) **6.** Plagiarism classification and prevention. (4)		NR
			Unit II Field work **7.** Role and significance of field work in geographical studies. (6) **8.** Field techniques and tools – Observations, questionnaire and interview. (5) **9.** Field techniques and tools – landuse survey. (5)	Field work and Field report preparation.	KM
			Unit II Field work **10.** Positioning and collection of samples. (4) **11.** Post-field	-	No teacher

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			tabulation. (5) **12.** Field work logistics and handling of emergencies. (5)		
			-	Field work and Field report preparation.	AP
	CC 12 (Remote Sensing , GIS & GNSS)	4 (th)+2(pr)	**Unit I Remote Sensing** **1.** Principles of remote sensing. (5)	-	PDG
			Unit I Remote Sensing **2.** Sensor resolution and their application. (5) **3.** Image referencing system. (5) **4.** Preparation of FCC (5) **5.** Principles of image interpretation. (5) **6.** Acquisition and utilization of free DEM. (5)	**1.** Image georeferencing and enhancement. (15) **2.** Supervised image classification. (15)	NR
			Unit II GIS AND GNSS **7.** GIS data structure types. (5) **8.** Principles of preparing attribute tables, data manipulation and overlay analysis. (6) **9.** Principles and significance of buffer preparation. (4) **10.** Principles and significance of overlay analysis. (5)	**3.** Digitization, data attachment, overlay and preparation of thematic map. (20)	AP
			Unit III GNSS **11.** Principles of GNSS positioning and waypoint collection. (5) **12.** Principles of transferring GNSS waypoints to GIS. (5)	**4.** Waypoint collection from GNSS receiver and exporting to GIS database. (10)	KM
	DSE A 5 (Climate Change)	4(th)+2(pr)	**1.** The science of climate change.(5) **2.** Climate change with reference to geological time scale. .(6) **3.** Factors of climate change. (4) **4.** Green house gases	**2.** Seasonal variability of rainfall. (15) **3,** Annual variability of rainfall. (15)	PDG

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			and global warming. .(5) **5.** Heat balance of the earth. .(5) **6.** Global climatic assessments – IPCC reports. .(5)		
			7. Climate change and vulnerability. .(5) **8.** Importance of climate change. .(5)		NR
			9. Global initiatives to climate change mitigation. .(5) **10.** Climate change vulnerability assessment and adaptive strategies in south Asia. .(5)	-	SG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	-	No teacher
			-	**4.** Preparation of inventory of extreme climatic events. (20)	AM
			-	**1.** Analysis of trends of temperature. (10)	AP
	DSE B 5 (Cultural and Settlement)	4(th)+2(pr)	**Unit I Cultural Geography** **1.** Definition, scope and content. (5) **2.** Development of cultural geography. (5) **3.** Cultural hearth and realm. (6) **4.** Cultural segregation and cultural diversity. (5) **5.** Races and racial groups. (5) **6.** Cultural regions of India. (4)	**1.** Mapping language distribution of India. .(10) **2.** CD block-wise housing distribution in any district of West Bengal using proportional squares. .(20)	SG
			Unit II Settlement geography **7.** Definition, nature and characteristics of rural settlement. (3) **8.** Site, situation and morphology of rural	**3.** Identification of rural settlement types from 1:50 k topographical maps. (15) **4.** Social area	AM

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			settlement. (5) **9.** Rural house types with reference to India. (7) **10.** Urban settlement. (3) **11.** Urban morphology. (7) **12.** City-region and conurbation – functional classification of cities. (5)	analysis of a city. (15)	

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester V

B,Sc General with Geography

(Under CBCS)

Session – 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –A 5 (Geography of Tourism)	4(th)+2(pr)	**1.** Scope and nature. (6) **2.** Types of tourism. (6) **3.** Factors influencing tourism. (5)	**13.** Tourist flow analysis. (15)	AM
			4. Spatial pattern of tourism. (4) **5.** Impact of tourism. (4) **6.** Environmental laws and tourism. (5)	**14.** Tourist flow projection from time series analysis. (15) **15.** Isochronic map. (15)	AP
			7. Role of foreign capital and impact of globalization on tourism. (4) **8.** Recent trends of tourism. (6) **9.** Tourism in India. (5) **10.** Promotion of tourism. (5)	**-16.** Environmental Impact Assessment of tourism. (15)	NR
			11. Infrastructure and support system. (5) **12.** Tourism cirquits. (5)		SG

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B. Sc Honours In Geography (Under CBCS)

Session – 2022 - 2023

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC3 (Human Geography)	4 (th)+2(pr)	**Unit – I Nature and principles** **1.** Nature, scope and recent trends(4) **2.** Approaches to human geography (6) **3.** Concept and classification of race, ethnicity (5) **4.** Scope, society and cultural regions (5)		AM
			Unit – II Demography and ekistics **5.** Evolution of human societies(6) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			10. Types and patterns of rural settlements. (5) **11.**Rural house types in India (5) **12.** Morphology and hierarchy of urban settlements.(5)	-	AP
			)	**1.** Spatial variation in religious composition by proportional divided circles. (12).	PDG

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				2. Arithmetic growth rate of population (15) **3.** Age-sex pyramids(20) **4.** Nnearest neighbor analysis (13)-	
	CC 4 (Thematic mapping and surveying)	4 (th)+2(pr)	**1.** Conceptof rounding, scientificnotation, logarithm (4) **3.**Prepaartion and interpretation of geological maps (5)	**2.** Interpretation of geological maps(20)	AP
			2. Concept of diagrammatic representation of data.. (2) **4.**Prepaartion and interpretation of weather maps. (5) **5.** Prepaartion and interpretation of land use land cover maps(5) **6.** Prepaartion and interpretation of socio-economic maps (5)	-	PDG
			7 Principal national agencies producing thematic maps. (5)		NR
			8.Concept of survey and survey equipment:Prismatic compass (5) **9.** Concept of survey and survey equipment:Dumpy level (7) **10.** Concept of survey and survey equipment:Theodolite. (7) **11.** Concept of survey and survey equipment:Abney level (5) **12.** Concept of survey and survey equipment:Laser distance measurer (5)	**1.** Traverse survey by prismatic compass(10) **2.**Profile survey using dumpy level (12) **3.** Height determination by theodolite(18)	KM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B.Sc General with Geography (Under CBCS)

Session 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC2 (Environmental geography)	4 (th)+2(pr)	**Unit 1 Climatology** **1.**Insolation and heat budget (5) **2.**Planetary wind systems. (6) **3.**Atmospheric disturbance. (7) **4.**Global climate change (5) **5** Climatic classification (5)	**1.**.Interpretation of daily weather map (20)	AM
			Unit II Soil geography **6.**Factors of soil formation (4) **7.**Soil profile development. (6) **8.**Physical and chemical properties of soil. (6) **9.**USDA classification of soil and its management. (4)	**2.**Construction and interpretation of hythergraph and climograph (20) **3.**Determination of soil type by ternary diagram (10)	AP
			Unit III Biogeography **10.** Ecosystem and biome (6) **11** Plant types and ecological adaptations (5) **12.** Biodiversity(4)	**4.** Preparation of biodiversity register (10)	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester IV

B. Sc Honours In Geography (Under CBCS)

Session - 2023

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC8 (Economic geography)	4 (th)+2(pr)	**Unit – I Concepts** **1.** Meaning and approaches (4) **2.** Concepts (6)		SG
			3. Concept of economic man(6) **4.** Economic distance and transport cost(4)		NR
			Unit – II Economic activities **5.**Concept and classification. (4) **6.**Factors affecting location of economic activity. (6)	-	AM
			7.Primary activities. (6) **8.**Secondary activities. (6) 9. Tertiary activities (6) **10.** Transnational sea routes, railways and highways. (4) **11.** International trade (4) **12.** WTO and BRICS (4) -	**4.**Time series analysis of industrial production. (20)	AP
				1. Choropleth mapping of state wise variation in GDP(10) **2.** State wise variation in occupational structure by divided proportional	PDG

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				circles(15)	
				4. Transport network analysis (15)-	KM
	CC 9 (Regional planning and development)	4 (th)+2(pr)	**Unit – I Regional Planning** **1.** Concept, type and delineation of region(4) **2.**Regional planning – types, principles, objectives , tools etc. (6) **3.**Regional planning and multi-level planning in Ondia. (6) **4.** Concept of metropolitan area and urban agglomeartion. (4)		SG
			Unit – II Regional development **5.**Concept of growth and development. (6) **6.**Indicators of development. (6) **7.** Human development(4) **8.** Theories and models of regional development (4)	-	AM
			Unit – II Regional development **9.**Models and theories of regional development. (6) **10.**Underdevelopment. (4) **11.**Regional development in India. (5) **12.**Measures for balanced development in India. (5)	**2.** Delineation of functional areaby breaking point analysis(15) **4.** Measuring regional disparity by Sopher index (15)	NR
				1. Delineation of formal regions by weighted index method (15) **3.**Measurement of inequality by Location quotient(15)	KM
	CC10 (Soil and Bio Geography)	4 (th)+2(pr)	**Unit – I** **Soil Geography -** **1.** Factors of soil formation (3)	**1.**Determination of PH and salinity. (15) **2.**Determination of	KM

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			2.Soil properties – texture, structure, moisture. (5) **3.** Soil properties –PH, organic matter, NPK . (5) **4.** Soil profile. (6) **5.**Soil erosion and degeneration. (5) **6.**soil classification. (6)	soil type by ternary diagram textural plotting. (15) **3.** time series analysis of biogeographical data (20)	
			Unit – II Bio geography– **7.** Concept of biosphere, ecotone,ecology etc.(5) **8.** Trophic structure, food chain, food web, energy flow(5) **9.**classifiaction of biome. (8) **10.**Bio-geochemical cycles. (4) **11.**Desertification. (4) **17.** Bio diversity. (4)	**3.** Plant species diversity determination(10)	PDG
	SEC B (Sustainable development)	2(th)	**1.**Concept. (5) **2.**Challenges of sustainable development. (10)	No practical component	AP
			3. Determinants of global environmental issues(9) **4.** Global goals for sustainable development(6)		NR

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DEPARTMENT OF GEOGRAPHY

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Semester IV

B.Sc General with Geography (Under CBCS)

Session 2023

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
	CC4 (Cartography)	4 (th)+2(pr)	**Unit 1 Scale and projections** **6.**Maps. (3) **7.**Cordinate systems. (3) **8.**Map Projections. (3)	**1.**.Graphical construction of scale (10) **2.** Construction of map projections(20)	AM
			Unit II Topographics and thematic maps **9.**SOI topographical maps. (4) **10.**Representation of data by proportional circles. (4) **11.**Isopleth and choropleth. (4) **12.**National agencies producing thematic map. (5)	**3.**Preparation of thematic maps (20)	AP
			Unit III Remote sensing and GIS **13.** Basics of RS(10) **14.**Preparation of FCC. (5) **15.** Principles of GIS (5)	**4.** Preparation of overlays of standard FCC(10)	NR

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			Unit I Economic geography **3.** Location of industries. (5) **Unit III Cultural geography** **2.** Rural and urban settlements. (5)	-	No teacher
	SEC B (Sustainable development)	2(th)	**1.**Challenges of sustainable development. (10)	No practical component	AP
			2.Global environmental issues. (8) **3.** Global goals for sustainable development. (7)		NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B. Sc Honours In Geography -Semester VI (Under CBCS)

Session – 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC13 (Evolution of geographical thought)	4 (th)+2(pr)	**Unit I Nature of pre modern geography** **1.** Development of pre modern geography. (5) **2.**Impact of dark age. (5) **3.**Geography during the age of discovery and exploration. (5) **4.**Transition from cosmography to scientific geography. (7)		AM
			Unit II Foundation of Modern geography and recent trends. **5.** Evolution of geographical thought in Germany, Britain, France and America(5) **6** Humbildt and Ritter (3) **7.**Contribution of Richthofen, Hurtshrone, Schaeffer, Ratzel, De La blache. (6) **8.** Trends in poet world war 2 (7) **9.**Structuralism and historical materialism (3) **10.** Changing concept of space (50 **11.** Evolution of critical geography (5) **12.** Post modernism (5)		AP

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			-	**1.** Changing perception of map **2.** Mapping voyages **3.** Poster presentation in group.- .	AM, AP
	CC 14 (Hazard Management)	4 (th)+2(pr)	**Unit I Concepts** **1.**C lassifiaction. (4) **2.** Approaches to hazard study (5) **3.** Responses to hazard (5) **4.** Hazard mapping (5)	-	KM
			Unit II Hazard specific study **5.**Earthquake. (5) **6.**Land slide. (5) **7.** Land subsidence(5) **8.**Tropical cyclone. (5) **9.** Flood(5) **10.**River bank erosion(5) **11.** Fire (5) **12.** Bio hazard (5) .		PDG
				Group project on hazard and its management (10)	PDG, KM, AM, AP,SG,NR
	DSE A 6 (Resource Geography)	4(th)+2(pr)	**Unit I** **Resource and development-** **1.** Concept and classification.(4) **2**AApproaches to resource utilization.(6) **3.**Significance of resource. (5) **4.**Pressure on resource.(5) **5.**Problems of resource depletion.(7) **6.** Sustainable resource development.(3)		SG
			Unit II. **Resouce conflict and management -** **7.**Distribution, utilization and problems of metallic minerals and resources.(6) **8.**Distribution,		NR

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			utilization and problems of non-metallic minerals and resources.(6) **9.** Conventional and non-conventional energy resource. (6) **10.**Contemporary energy crisis and future scenario(4) **11.**Politics of power resources (3) **12.**Limits to growth and sustainable use of resources (5)		
				1.Mapping and area estimate of vegetation(15)	PDG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	**2.**Mapping and number estimate of water bodies (15) **3.** Decadal changes in state-wise production of iron and coal (15) **4.**Human development index (15)	KM
	DSE B 6 (Geography of India)	4(th)+2(pr)	**Unit I Geography of India** **1.** Physiography. (5) **2.** Climate, soil and vegetation. (6) **3.** Population. (4) **4.**Tribes. (4) **5.** Agricultural regions(4)	**13.** Monthly temperature and rainfall graphs of five stations from different physiographic regions of India (5)	PDG
			6. Mineral and power resources(6) **7.** Industrial development (3) **8.** industrialization (7)		AP
			Unit II Geography of West Bengal **9.** Physical perspective(5) **10.** Resources (6) **11.** Population (4) **12.** Regional Issues (4)	**14.** Crop combination of West Bengal	KM
				15. Annual trend of production(20) **16.**Composite index (10)	NR

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DEPARTMENT OF GEOGRAPHY

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Semester VI

B,Sc General with Geography (Under CBCS)

Session – 2022 - 23

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –B6 (Population Geography)	4(th)+2(pr)	**Unit I Population Dynamics** **1.** Development of population geography(6) **2.**Population distribution. (6) **3.** World pattern and determinants of population(4) **4.**Population density, distribution and growth in India. (4)	**1.** Population projection by arithmetic method. (15) **2.** Populationdensity mapping. (15)	NR
			Unit I Population and development **5.** Population composition. (5) **6.** Fertility and mortality. (5) **7.** Population composition in India(7) **8.**Migration. (3) **9.**National and international pattern of migration. (5) **10.**Population and development. (5) **11.** Population policies in developed and less developed countries (5) 12. Contemporary issues (5)	**3.** Analysis of work participation rate (15) **4.** Analysis of occupation structure by dominant and distinctive functions (15)	AM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B. Sc Honours In Geography (Under CBCS)

Session – 2021 - 2022

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC1 (Geotectonics and gGeomorphology)	4(th)+ 2(pr)	**Unit – I Geotectonics** **1.** Earth's tectonic and structural evolution with ref to geological time scale(3) **2.** Earth's interior and Isostacy(3) **3.** Plate tectonics(10)		AP
			Unit – II Geomorphology **5.** Degradational processes – weathering and mass wasting(4) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			Unit – I Geotectonics **4.** Folds and faults(4) **Unit – II Geomorphology** **8.**Development of river network and landforms on granite, basalt and limestone. (4) **12.**Role of time in geomorphology – Schumm and Lichty's model and models on landscape evolution – Davis, Penck, King and Hack (8)	-	AM
			Unit – II Geomorphology **6.** Processes of entrainment, transportation and deposition and role of human in landform development. (4) **9.** Coastal processes and	**3.** Extraction and interpretation of geomorphic information from Survey of India topographical maps.(35).	PDG

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			landforms(4)	**4.** Construction of hypsometric curveand derivation of hypsometric integer(5)	
			Unit – II Geomorphology **10.**Glacial and glacio-fluvial processes and landforms. (4)	**1.** Measurement of dip and strike using clinometer(6) **2.** Megascopic identification of rock and mineral samples(14	KM
			Unit – II Geomorphology **7.** Development of river network and landforms onuniclinal and folded structure, surface expression of faults. (7) **11.**Aeolian and fluvio-aeolian processes and landforms (4)		NR
	CC 2 (Cartographic Techniques)	4 (th)+2(pr)	**1.** Maps – components and classification(4) **2.**Scales – plain, comparative, diagonal and vernier (8) **3.**.Representation of data using dots, spheres and proportional circles (5)	**1.** Construction of scales(16)	KM
			4.Concept of generating globe. (2) **5.**Grids – angular and linear system of measurement. (5) **8.** Map projection – classification, properties and uses(8) **9.** Concept and significance of UTM projection(2)	**2.** Construction of projections – Polar zenithal stereographic, simple conic with one standard parallel, Bonne's and cylindrical equal area (17)	PDG
			6.Bearing – magnetic and true, whole circle and reduced (5) **12.**Survey of India topographical maps – reference scheme and the information on the margin (6)	**2.** Construction of projections – Mercator's(3) **3.** Thematic maps – Proportional squares, divided proportional circles, dots and spheres (12)	AP
				4. Thematic maps – Choropleth, isopleths and chorochromatic(12)	AM
			11. Representation of data using isopleths, choropleth and chorochromatic maps (5)		SG

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DEPARTMENT OF GEOGRAPHY

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Semester I

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Session 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC1 (Physical geography)	4 (th)+ 2(pr)	**Unit 1 Geotectonics** **1.**Eart's interior (3) **2.**Plate tectonics. (7) **3.**Folds and faults. (6)	**16.**.Extraction of drainage information from SOI topographical maps (20)	SG
			Unit II Geomorphology **4.**Degradational processes – weathering, mass wasting (4) **5.**Principal geomorphic agents and landforms– fluvial, coastal, Aeolian and glacial.(12) **6.**Models of slope evolution . (6)	)	AM
			Unit III Hydrology **7.** Global hydrologic cycle(2) **8** Run off(3) **9**Drainage basin as a hydrological unit (3)	**15.** ..Extraction of physiographic information from SOI topographical maps (20)	NR
			Unit IV Oceanography **10.** Physical and chemical properties of ocean water(4) **11,** Ocean circulation, wave, tide(7) **12.**Marine resources (3)	**13.** Megascopic identification of rocks(8) **14.** Megascopic identification of minerls(12)	AP

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DEPARTMENT OF GEOGRAPHY

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Semester III

B. Sc Honours In Geography (Under CBCS)

Session – 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC5 (Climatology)	4 (th)+2(pr)	**Unit – I Elements of Atmosphere** **1.** Nature, composition and layering of atmosphere. (4) **2.** Insolation. (6) **4.**Overview of climate change. (4)		SG
			Unit – II Atmospheric phenomena and climatic classification **5.** Condensation (6) **8.** Weather Stability and instability (5) **9.** Circulation in the atmosphere. (5) **10.** Atmospheric disturbance. (5) **12.** Climatic classification. (5)-	**2.** Interpretation of daily weather map of India. (20) **4.** Construction and interpretation of wind rose. (10)	AM
				1. Measurement of weather elements using analogue instruments. (15)-	KM
			-	**3.** Construction and interpretation of hythergraph and climograph. (15)	AP
			Unit – I Elements of Atmosphere **3.** Temperature. (6)	-	No teacher

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			Unit – II Atmospheric phenomena and climatic classification **6.** Air mass. (4) **7.** Fronts. (5) **12.** Monsoon. (5)		
	CC 6 (Hydrology and Oceanography)	4 (th)+2(pr)	**Unit – II Oceanography** **5.** Major relief features of the ocean floor. (6) **6.** Physical and chemical properties of ocean water. (4) **7.** Water mass. (4) **8,** Air sea interaction. (8) **9.** Ocean temperature and salinity. (4) **10.** Coral reefs. (5)	**1.** Construction and interpretation of rating curve. (10) **2.** Construction and interpretation of hydrograph and unit hydrograph. (15) **3.** Construction and interpretation of monthly rainfall dispersion diagram. (25) **4.** Construction of Theissen polygon. (10)	PDG
			Unit – I Hydrology **1.** Systems approach in hydrology. (5) **2.** Run-off. (5)	-	AP
			Unit – I Hydrology **3.** Drainage basin as a hydrological unit. (5) **4.** Groundwater. (5) **Unit – II Oceanography** **11.** Marine resource. (4) **12.** Sea level change. (5)	-	No teacher
	CC7 (Statistical Methods in Geography)	4 (th)+2(pr)	**Unit – I Frequency distribution and sampling -** **6.** Importance and significance of statistics in geography. (4) **7.** Discrete and continuous data. (5) **8.** Sources of geographical data for statistical analysis. (4) **9.** Collection of data and preparation of table. (5) **10.** Sampling. (4) **11.** Theoretical distribution. (6)	**18.** Construction of data matrix. (15) **19.** Measures of central tendency. (15) **20.** Sampling. (15)	KM

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			Unit – II Numerical data analysis – **12.** Central tendency. (6) **13.** Measures of dispersion range. (6) **14.** Association and correlation. (5) **15.** Regression. (5) **16.** Time series analysis. (5) **17.** Hypothesis testing. (5)	**21.** Scatter diagram, linear regression, residual mapping. (15)	NR
	SEC A (Tourism Management)	2(th)	**1.** Scope and nature. (10) **2.** Use of information on factors for tourism planning. (5) **3.** Tourism impact assessment. (8)	No practical component	NR
			4. Increasing global tourism and tourism in India. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

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Semester III

B.Sc General with Geography (Under CBCS)

Session 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	CC3 (Human Geography)	4 (th)+ 2(pr)	**Unit 1 Economic geography** **1.** Sectors of economy. (5) **2.** Location of economic activities. (5) **4.** Globalization. (5)	**2.** Time series analysis. (20)	AM
			Unit II Social Geography **5.** Human society. (5) **6.** Types and characteristics of social organizations. (5) **7.** Race, language and religion. (6) **8.** Social issues. (5)	**3.** Arithmetic growth rate. (15) **4.** Nearest Neighbour analysis. (10)	AP
			Unit III Cultural geography **1.** Carl Sauer. (6) **3.** Cultural regions and cultural realms. (5) **4.** Diffusion of culture and innovations. (4)	**1.** State wise variation in occupational structure. (15)	SG
			Unit I Economic geography **3.** Location of industries. (5) **Unit III Cultural geography** **2.** Rural and urban settlements. (5)	-	No teacher
	SEC A (Coastal Management)	2(th)	**1.** Components of coastal zone. (7)	No practical component	AM
			2. Environmental impact and management of oil exploration, salt manufacturing, land reclamation and tourism. (8) **3.** Coastal hazards and their management. (8)		AP
			4. Principles of coastal zone management. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

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Semester V

B,Sc General with Geography

(Under CBCS)

Session – 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –A 5 (Geography of Tourism)	4(th)+2(pr)	**1.** Scope and nature. (6) **2.** Types of tourism. (6) **3.** Factors influencing tourism. (5)	**13.** Tourist flow analysis. (15)	AM
			4. Spatial pattern of tourism. (4) **5.** Impact of tourism. (4) **6.** Environmental laws and tourism. (5)	**14.** Tourist flow projection from time series analysis. (15) **15.** Isochronic map. (15)	AP
			7. Role of foreign capital and impact of globalization on tourism. (4) **8.** Recent trends of tourism. (6) **9.** Tourism in India. (5) **10.** Promotion of tourism. (5)	**-16.** Environmental Impact Assessment of tourism. (15)	NR
			11. Infrastructure and support system. (5) **12.** Tourism cirquits. (5)		SG

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B. Sc Honours In Geography -Semester V

(Under CBCS)

Session - 2021- 2022

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC11 (Research Methodology and Fieldwork)	4 (th)+2(pr)	**Unit I Research methodology** **1.** Meaning, type and significance of research in geography. (5) **2.** Literature review and formulation of research design. (5) **3.** Defining research problem. (6) 4. Research materials and methods. (4) **5.** Techniques of writing scientific report. (6) **6.** Plagiarism classification and prevention. (4)		NR
			Unit II Field work **7.** Role and significance of field work in geographical studies. (6) **8.** Field techniques and tools – Observations, questionnaire and interview. (5) **9.** Field techniques and tools – landuse survey. (5)	Field work and Field report preparation.	KM
			Unit II Field work **10.** Positioning and collection of samples. (4) **11.** Post-field	-	No teacher

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			tabulation. (5) **12.** Field work logistics and handling of emergencies. (5)		
			-	Field work and Field report preparation.	AP
	CC 12 (Remote Sensing , GIS & GNSS)	4 (th)+2(pr)	**Unit I Remote Sensing** **1.** Principles of remote sensing. (5)	-	PDG
			Unit I Remote Sensing **2.** Sensor resolution and their application. (5) **3.** Image referencing system. (5) **4.** Preparation of FCC (5) **5.** Principles of image interpretation. (5) **6.** Acquisition and utilization of free DEM. (5)	**1.** Image georeferencing and enhancement. (15) **2.** Supervised image classification. (15)	NR
			Unit II GIS AND GNSS **7.** GIS data structure types. (5) **8.** Principles of preparing attribute tables, data manipulation and overlay analysis. (6) **9.** Principles and significance of buffer preparation. (4) **10.** Principles and significance of overlay analysis. (5)	**3.** Digitization, data attachment, overlay and preparation of thematic map. (20)	AP
			Unit III GNSS **11.** Principles of GNSS positioning and waypoint collection. (5) **12.** Principles of transferring GNSS waypoints to GIS. (5)	**4.** Waypoint collection from GNSS receiver and exporting to GIS database. (10)	KM
	DSE A 5 (Climate Change)	4(th)+2(pr)	**1.** The science of climate change.(5) **2.** Climate change with reference to geological time scale. .(6) **3.** Factors of climate change. (4) **4.** Green house gases	**2.** Seasonal variability of rainfall. (15) **3,** Annual variability of rainfall. (15)	PDG

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			and global warming. .(5) **5.** Heat balance of the earth. .(5) **6.** Global climatic assessments – IPCC reports. .(5)		
			7. Climate change and vulnerability. .(5) **8.** Importance of climate change. .(5)		NR
			9. Global initiatives to climate change mitigation. .(5) **10.** Climate change vulnerability assessment and adaptive strategies in south Asia. .(5)	-	SG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	-	No teacher
			-	**4.** Preparation of inventory of extreme climatic events. (20)	AM
			-	**1.** Analysis of trends of temperature. (10)	AP
	DSE B 5 (Cultural and Settlement)	4(th)+2(pr)	**Unit I Cultural Geography** **1.** Definition, scope and content. (5) **2.** Development of cultural geography. (5) **3.** Cultural hearth and realm. (6) **4.** Cultural segregation and cultural diversity. (5) **5.** Races and racial groups. (5) **6.** Cultural regions of India. (4)	**1.** Mapping language distribution of India. .(10) **2.** CD block-wise housing distribution in any district of West Bengal using proportional squares. .(20)	SG
			Unit II Settlement geography **7.** Definition, nature and characteristics of rural settlement. (3) **8.** Site, situation and morphology of rural	**3.** Identification of rural settlement types from 1:50 k topographical maps. (15) **4.** Social area	AM

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			settlement. (5) **9.** Rural house types with reference to India. (7) **10.** Urban settlement. (3) **11.** Urban morphology. (7) **12.** City-region and conurbation – functional classification of cities. (5)	analysis of a city. (15)	

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B. Sc Honours In Geography (Under CBCS)

Session – 2021 - 2022

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC3 (Human Geography)	4 (th)+2(pr)	**Unit – I Nature and principles** **1.** Nature, scope and recent trends(4) **2.** Approaches to human geography (6) **3.** Concept and classification of race, ethnicity (5) **4.** Scope, society and cultural regions (5)		AM
			Unit – II Demography and ekistics **5.** Evolution of human societies(6) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			10. Types and patterns of rural settlements. (5) **11.**Rural house types in India (5) **12.** Morphology and hierarchyof urban settlements.(5)	-	AP
			-	**1.** Spatial variation in religious composition by proportional divided circles. (12).	PDG

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				2. Arithmetic growth rate of population (15) **3.** Age-sex pyramids(20) **4.** Nnearest neighbor analysis (13)-	
	CC 4 (Thematic mapping and surveying)	4 (th)+2(pr)	**1.** Conceptof rounding, scientificnotation, logarithm (4) **3.**Prepaartion and interpretation of geological maps (5)	**2.** Interpretation of geological maps(20)	AP
			2. Concept of diagrammatic representation of data.. (2) **4.**Prepaartion and interpretation of weather maps. (5) **5.** Prepaartion and interpretation of land use land cover maps(5) **6.** Prepaartion and interpretation of socio-economic maps (5)	-	PDG
			7 Principal national agencies producing thematic maps. (5)		NR
			8.Concept of survey and survey equipment:Prismatic compass (5) **9.** Concept of survey and survey equipment:Dumpy level (7) **10.** Concept of survey and survey equipment:Theodolite. (7) **11.** Concept of survey and survey equipment:Abney level (5) **12.** Concept of survey and survey equipment:Laser distance measurer (5)	**1.** Traverse survey by prismatic compass(10) **2.**Profile survey using dumpy level (12) **3.** Height determination by theodolite(18)	KM

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Semester II

B.Sc General with Geography (Under CBCS)

Session 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC2 (Environmental geography)	4 (th)+2(pr)	**Unit 1 Climatology** **1.**Insolation and heat budget (5) **2.**Planetary wind systems. (6) **3.**Atmospheric disturbance. (7) **4.**Global climate change (5) **5** Climatic classification (5)	**1.**.Interpretation of daily weather map (20)	AM
			Unit II Soil geography **6.**Factors of soil formation (4) **7.**Soil profile development. (6) **8.**Physical and chemical properties of soil. (6) **9.**USDA classification of soil and its management. (4)	**2.**Construction and interpretation of hythergraph and climograph (20) **3.**Determination of soil type by ternary diagram (10)	AP
			Unit III Biogeography **10.** Ecosystem and biome (6) **11** Plant types and ecological adaptations (5) **12.** Biodiversity(4)	**4.** Preparation of biodiversity register (10)	NR

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DEPARTMENT OF GEOGRAPHY

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B. Sc Honours In Geography -Semester VI (Under CBCS)

Session – 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC13 (Evolution of geographical thought)	4 (th)+2(pr)	**Unit I Nature of pre modern geography** **1.** Development of pre modern geography. (5) **2.**Impact of dark age. (5) **3.**Geography during the age of discovery and exploration. (5) **4.**Transition from cosmography to scientific geography. (7)		AP
			Unit II Foundation of Modern geography and recent trends. **5.** Evolution of geographical thought in Germany, Britain, France and America(5) **6** Humbildt and Ritter (3) **7.**Contribution of Richthofen, Hurtshrone, Schaeffer, Ratzel, De La blache. (6) **8.** Trends in poet world war 2 (7) **9.**Structuralism and historical materialism (3) **10.** Changing concept of space (50 **11.** Evolution of critical geography (5) **12.** Post modernism (5)		AM

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			-	**1.** Changing perception of map **2.** Mapping voyages **3.** Poster presentation in group.- .	AM, AP
	CC 14 (Hazard Management)	4 (th)+2(pr)	**Unit I Concepts** **1.**C lassifiaction. (4) **2.** Approaches to hazard study (5) **3.** Responses to hazard (5) **4.** Hazard mapping (5)	-	PDG
			Unit II Hazard specific study **5.**Earthquake. (5) **6.**Land slide. (5) **7.** Land subsidence(5) **8.**Tropical cyclone. (5) **9.** Flood(5) **10.**River bank erosion(5) **11.** Fire (5) **12.** Bio hazard (5) .		KM
				Group project on hazard and its management (10)	PDG, KM, AM, AP,SG,NR
	DSE A 6 (Resource Geography)	4(th)+2(pr)	**Unit I** **Resource and development-** **1.** Concept and classification.(4) **2**AApproaches to resource utilization.(6) **3.**Significance of resource. (5) **4.**Pressure on resource.(5) **5.**Problems of resource depletion.(7) **6.** Sustainable resource development.(3)		SG
			Unit II. **Resouce conflict and management -** **7.**Distribution, utilization and problems of metallic minerals and resources.(6) **8.**Distribution,		NR

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			utilization and problems of non-metallic minerals and resources.(6) **9.** Conventional and non-conventional energy resource. (6) **10.**Contemporary energy crisis and future scenario(4) **11.**Politics of power resources (3) **12.**Limits to growth and sustainable use of resources (5)		
				1.Mapping and area estimate of vegetation(15)	PDG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	**2.**Mapping and number estimate of water bodies (15) **3.** Decadal changes in state-wise production of iron and coal (15) **4.**Human development index (15)	KM
	DSE B 6 (Geography of India)	4(th)+2(pr)	**Unit I Geography of India** **1.** Physiography. (5) **2.** Climate, soil and vegetation. (6) **3.** Population. (4) **4.**Tribes. (4) **5.** Agricultural regions(4)	**13.** Monthly temperature and rainfall graphs of five stations from different physiographic regions of India (5)	PDG
			6. Mineral and power resources(6) **7.** Industrial development (3) **8.** industrialization (7)		AP
			Unit II Geography of West Bengal **9.** Physical perspective(5) **10.** Resources (6) **11.** Population (4) **12.** Regional Issues (4)	**14.** Crop combination of West Bengal	KM
				15. Annual trend of production(20) **16.**Composite index (10)	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester VI

B,Sc General with Geography (Under CBCS)

Session – 2021 - 22

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –B6 (Population Geography)	4(th)+2(pr)	**Unit I Population Dynamics** **1.** Development of population geography(6) **2.**Population distribution. (6) **3.** World pattern and determinants of population(4) **4.**Population density, distribution and growth in India. (4)	**1.** Population projection by arithmetic method. (15) **2.** Populationdensity mapping. (15)	AM
			Unit I Population and development **5.** Population composition. (5) **6.** Fertility and mortality. (5) **7.** Population composition in India(7) **8.**Migration. (3) **9.**National and international pattern of migration. (5) **10.**Population and development. (5) **11.** Population policies in developed and less developed countries (5) 12. Contemporary issues (5)	**3.** Analysis of work participation rate (15) **4.** Analysis of occupation structure by dominant and distinctive functions (15)	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B. Sc Honours In Geography (Under CBCS)

Session – 2020 - 2021

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC1 (Geotectonics and gGeomorphology)	4(th)+ 2(pr)	**Unit – I Geotectonics** **1.** Earth's tectonic and structural evolution with ref to geological time scale(3) **2.** Earth's interior and Isostacy(3) **3.** Plate tectonics(10)		AM
			Unit – II Geomorphology **5.** Degradational processes – weathering and mass wasting(4) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			Unit – I Geotectonics **4.** Folds and faults(4) **Unit – II Geomorphology** **8.**Development of river network and landforms on granite, basalt and limestone. (4) **12.**Role of time in geomorphology – Schumm and Lichty's model and models on landscape evolution – Davis, Penck, King and Hack (8)	-	AP
			Unit – II Geomorphology **6.** Processes of entrainment, transportation and deposition and role of human in landform development. (4) **9.** Coastal processes and landforms(4)	**3.** Extraction and interpretation of geomorphic information from Survey of India topographical maps.(35). **4.** Construction of	PDG

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			-	hypsometric curveand derivation of hypsometric integer(5)	
			Unit – II Geomorphology **10.**Glacial and glacio-fluvial processes and landforms. (4)	**1.** Measurement of dip and strike using clinometer(6) **2.** Megascopic identification of rock and mineral samples(14	KM
			Unit – II Geomorphology **7.** Development of river network and landforms onuniclinal and folded structure, surface expression of faults. (7) **11.**Aeolian and fluvio-aeolian processes and landforms (4)		NR
	CC 2 (Cartographic Techniques)	4 (th)+2(pr)	**1.** Maps – components and classification(4) **2.**Scales – plain, comparative, diagonal and vernier (8) **3.**.Representation of data using dots, spheres and proportional circles (5)	**1.** Construction of scales(16)	PDG
			4.Concept of generating globe. (2) **5.**Grids – angular and linear system of measurement. (5) **8.** Map projection – classification, properties and uses(8) **9.** Concept and significance of UTM projection(2)	**2.** Construction of projections – Polar zenithal stereographic, simple conic with one standard parallel, Bonne's and cylindrical equal area (17)	KM
			6.Bearing – magnetic and true, whole circle and reduced (5) **12.**Survey of India topographical maps – reference scheme and the information on the margin (6)	**2.** Construction of projections – Mercator's(3) **3.** Thematic maps – Proportional squares, divided proportional circles, dots and spheres (12)	AP
				4. Thematic maps – Choropleth, isopleths and chorochromatic(12)	SG
			11. Representation of data using isopleths, choropleth and chorochromatic maps (5)		AM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B.Sc General with Geography (Under CBCS)

Session 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC1 (Physical geography)	4 (th)+ 2(pr)	**Unit 1 Geotectonics** **1.**Eart's interior (3) **2.**Plate tectonics. (7) **3.**Folds and faults. (6)	**16.**.Extraction of drainage information from SOI topographical maps (20)	AM
			Unit II Geomorphology **4.**Degradational processes – weathering, mass wasting (4) **5.**Principal geomorphic agents and landforms– fluvial, coastal, Aeolian and glacial.(12) **6.**Models of slope evolution . (6)		SG
			Unit III Hydrology **7.** Global hydrologic cycle(2) **8** Run off(3) **9**Drainage basin as a hydrological unit (3)	**15.** ..Extraction of physiographic information from SOI topographical maps (20)	NR
			Unit IV Oceanography **10.** Physical and chemical properties of ocean water(4) **11,** Ocean circulation, wave, tide(7) **12.**Marine resources 3)	**13.** Megascopic identification of rocks(8) **14.** Megascopic identification of minerls(12)	AP

Panchali Bhattacharjee 18/12/20

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B. Sc Honours In Geography (Under CBCS)

Session – 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC5 (Climatology)	4 (th)+2(pr)	**Unit – I Elements of Atmosphere** **1.** Nature, composition and layering of atmosphere. (4) **2.** Insolation. (6) **4.**Overview of climate change. (4)		SG
			Unit – II Atmospheric phenomena and climatic classification **5.** Condensation (6) **8.** Weather Stability and instability (5) **9.** Circulation in the	**2.** Interpretation of daily weather map of India. (20) **4.** Construction and interpretation of wind rose. (10)	AM

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			atmosphere. (5) **10.** Atmospheric disturbance. (5) **12.** Climatic classification. (5)-		
				1. Measurement of weather elements using analogue instruments. (15)-	KM
			-	**3.** Construction and interpretation of hythergraph and climograph. (15)	AP
			Unit – I Elements of Atmosphere **3.** Temperature. (6) **Unit – II Atmospheric phenomena and climatic classification** **6.** Air mass. (4) **7.** Fronts. (5) **12.** Monsoon. (5)	-	No teacher
	CC 6 (Hydrology and Oceanography)	4 (th)+2(pr)	**Unit – II Oceanography** **5.** Major relief features of the ocean floor. (6) **6.** Physical and chemical properties of ocean water. (4) **7.** Water mass. (4) **8,** Air sea interaction. (8) **9.** Ocean temperature and salinity. (4) **10.** Coral reefs. (5)	**1.** Construction and interpretation of rating curve. (10) **2.** Construction and interpretation of hydrograph and unit hydrograph. (15) **3.** Construction and interpretation of monthly rainfall dispersion diagram. (25) **4.** Construction of Theissen polygon. (10)	PDG
			Unit – I Hydrology **1.** Systems approach in hydrology. (5) **2.** Run-off. (5)	-	AP
			Unit – I Hydrology **3.** Drainage basin as a hydrological unit. (5) **4.** Groundwater. (5) **Unit – II Oceanography** **11.** Marine resource. (4) **12.** Sea level change. (5)	-	No teacher

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	CC7 (Statistical Methods in Geography)	4 (th)+2(pr)	**Unit – I Frequency distribution and sampling -** **6.** Importance and significance of statistics in geography. (4) **7.** Discrete and continuous data. (5) **8.** Sources of geographical data for statistical analysis. (4) **9.** Collection of data and preparation of table. (5) **10.** Sampling. (4) **11.** Theoretical distribution. (6)	**18.** Construction of data matrix. (15) **19.** Measures of central tendency. (15) **20.** Sampling. (15)	KM
			Unit – II Numerical data analysis – **12.** Central tendency. (6) **13.** Measures of dispersion range. (6) **14.** Association and correlation. (5) **15.** Regression. (5) **16.** Time series analysis. (5) **17.** Hypothesis testing. (5)	**21.** Scatter diagram, linear regression, residual mapping. (15)	NR
	SEC A (Tourism Management)	2(th)	**1.** Scope and nature. (10) **2.** Use of information on factors for tourism planning. (5) **3.** Tourism impact assessment. (8)	No practical component	NR
			4. Increasing global tourism and tourism in India. (7)		No teacher

Paramita Dasgupta
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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B.Sc General with Geography (Under CBCS)

Session 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	CC3 (Human Geography)	4 (th)+ 2(pr)	**Unit 1 Economic geography** **1.** Sectors of economy. (5) **2.** Location of economic activities. (5) **4.** Globalization. (5)	**2.** Time series analysis. (20)	AM
			Unit II Social Geography **5.** Human society. (5) **6.** Types and characteristics of social organizations. (5) **7.** Race, language and religion. (6) **8.** Social issues. (5)	**3.** Arithmetic growth rate. (15) **4.** Nearest Neighbour analysis. (10)	AP
			Unit III Cultural geography **1.** Carl Sauer. (6) **3.** Cultural regions and cultural realms. (5) **4.** Diffusion of culture and innovations. (4)	**1.** State wise variation in occupational structure. (15)	SG
			Unit I Economic geography **3.** Location of industries. (5) **Unit III Cultural geography** **2.** Rural and urban settlements. (5)	-	No teacher
	SEC A (Coastal Management)	2(th)	**1.** Components of coastal zone. (7)	No practical component	AM
			2. Environmental impact and management of oil exploration, salt manufacturing, land reclamation and tourism. (8) **3.** Coastal hazards and their management. (8)		AP
			4. Principles of coastal zone management. (7)		No teacher

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Semester V

B,Sc General with Geography

(Under CBCS)

Session – 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –A 5 (Geography of Tourism)	4(th)+2(pr)	**1.** Scope and nature. (6) **2.** Types of tourism. (6) **3.** Factors influencing tourism. (5)	**13.** Tourist flow analysis. (15)	AM
			4. Spatial pattern of tourism. (4) **5.** Impact of tourism. (4) **6.** Environmental laws and tourism. (5)	**14.** Tourist flow projection from time series analysis. (15) **15.** Isochronic map. (15)	AP
			7. Role of foreign capital and impact of globalization on tourism. (4) **8.** Recent trends of tourism. (6) **9.** Tourism in India. (5) **10.** Promotion of tourism. (5)	**-16.** Environmental Impact Assessment of tourism. (15)	NR
			11. Infrastructure and support system. (5) **12.** Tourism cirquits. (5)		SG

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B. Sc Honours In Geography -Semester V

(Under CBCS)

Session - 2020- 2021

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC11 (Research Methodology and Fieldwork)	4 (th)+2(pr)	**Unit I Research methodology** **1.** Meaning, type and significance of research in geography. (5) **2.** Literature review and formulation of research design. (5) **3.** Defining research problem. (6) 4. Research materials and methods. (4) **5.** Techniques of writing scientific report. (6) **6.** Plagiarism classification and prevention. (4)		NR
			Unit II Field work **7.** Role and significance of field work in geographical studies. (6) **8.** Field techniques and tools – Observations, questionnaire and interview. (5) **9.** Field techniques and tools – landuse survey. (5)	Field work and Field report preparation.	KM
			Unit II Field work **10.** Positioning and collection of samples. (4) **11.** Post-field	-	No teacher

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			tabulation. (5) **12.** Field work logistics and handling of emergencies. (5)		
			-	Field work and Field report preparation.	AP
	CC 12 (Remote Sensing , GIS & GNSS)	4 (th)+2(pr)	**Unit I Remote Sensing** **1.** Principles of remote sensing. (5)	-	PDG
			Unit I Remote Sensing **2.** Sensor resolution and their application. (5) **3.** Image referencing system. (5) **4.** Preparation of FCC (5) **5.** Principles of image interpretation. (5) **6.** Acquisition and utilization of free DEM. (5)	**1.** Image georeferencing and enhancement. (15) **2.** Supervised image classification. (15)	NR
			Unit II GIS AND GNSS **7.** GIS data structure types. (5) **8.** Principles of preparing attribute tables, data manipulation and overlay analysis. (6) **9.** Principles and significance of buffer preparation. (4) **10.** Principles and significance of overlay analysis. (5)	**3.** Digitization, data attachment, overlay and preparation of thematic map. (20)	AP
			Unit III GNSS **11.** Principles of GNSS positioning and waypoint collection. (5) **12.** Principles of transferring GNSS waypoints to GIS. (5)	**4.** Waypoint collection from GNSS receiver and exporting to GIS database. (10)	KM
	DSE A 5 (Climate Change)	4(th)+2(pr)	**1.** The science of climate change.(5) **2.** Climate change with reference to geological time scale. .(6) **3.** Factors of climate change. (4) **4.** Green house gases	**2.** Seasonal variability of rainfall. (15) **3,** Annual variability of rainfall. (15)	PDG

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			and global warming. .(5) **5.** Heat balance of the earth. .(5) **6.** Global climatic assessments – IPCC reports. .(5)		
			7. Climate change and vulnerability. .(5) **8.** Importance of climate change. .(5)		NR
			9. Global initiatives to climate change mitigation. .(5) **10.** Climate change vulnerability assessment and adaptive strategies in south Asia. .(5)	-	SG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	-	No teacher
			-	**4.** Preparation of inventory of extreme climatic events. (20)	AM
			-	**1.** Analysis of trends of temperature. (10)	AP
	DSE B 5 (Cultural and Settlement)	4(th)+2(pr)	**Unit I Cultural Geography** **1.** Definition, scope and content. (5) **2.** Development of cultural geography. (5) **3.** Cultural hearth and realm. (6) **4.** Cultural segregation and cultural diversity. (5) **5.** Races and racial groups. (5) **6.** Cultural regions of India. (4)	**1.** Mapping language distribution of India. .(10) **2.** CD block-wise housing distribution in any district of West Bengal using proportional squares. .(20)	SG
			Unit II Settlement geography **7.** Definition, nature and characteristics of rural settlement. (3) **8.** Site, situation and morphology of rural	**3.** Identification of rural settlement types from 1:50 k topographical maps. (15) **4.** Social area	AM

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			settlement. (5) **9.** Rural house types with reference to India. (7) **10.** Urban settlement. (3) **11.** Urban morphology. (7) **12.** City-region and conurbation – functional classification of cities. (5)	analysis of a city. (15)	

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B. Sc Honours In Geography (Under CBCS)

Session – 2020 - 2021

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC3 (Human Geography)	4 (th)+2(pr)	**Unit – I Nature and principles** **1.** Nature, scope and recent trends(4) **2.** Approaches to human geography (6) **3.** Concept and classification of race, ethnicity (5) **4.** Scope, society and cultural regions (5)		SG
			Unit – II Demography and ekistics **5.** Evolution of human societies(6) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		AM
			10. Types and patterns of rural settlements. (5) **11.**Rural house types in India (5) **12.** Morphology and hierarchyof urban settlements.(5)	-	AP
			)	**1.** Spatial variation in religious composition by proportional divided circles. (12).	PDG

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				2. Arithmetic growth rate of population (15) **3.** Age-sex pyramids(20) **4.** Nnearest neighbor analysis (13)-	
	CC 4 (Thematic mapping and surveying)	4 (th)+2(pr)	**1.** Conceptof rounding, scientificnotation, logarithm (4) **3.**Prepaartion and interpretation of geological maps (5)	**2.** Interpretation of geological maps(20)	AP
			2. Concept of diagrammatic representation of data.. (2) **4.**Prepaartion and interpretation of weather maps. (5) **5.** Prepaartion and interpretation of land use land cover maps(5) **6.** Prepaartion and interpretation of socio-economic maps (5)	-	PDG
			7 Principal national agencies producing thematic maps. (5)		NR
			8.Concept of survey and survey equipment:Prismatic compass (5) **9.** Concept of survey and survey equipment:Dumpy level (7) **10.** Concept of survey and survey equipment:Theodolite. (7) **11.** Concept of survey and survey equipment:Abney level (5) **12.** Concept of survey and survey equipment:Laser distance measurer (5)	**1.** Traverse survey by prismatic compass(10) **2.**Profile survey using dumpy level (12) **3.** Height determination by theodolite(18)	KM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B.Sc General with Geography (Under CBCS)

Session 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC2 (Environmental geography)	4 (th)+2(pr)	**Unit 1 Climatology** **1.**Insolation and heat budget (5) **2.**Planetary wind systems. (6) **3.**Atmospheric disturbance. (7) **4.**Global climate change (5) **5** Climatic classification (5)	**1.**.Interpretation of daily weather map (20)	AP
			Unit II Soil geography **6.**Factors of soil formation (4) **7.**Soil profile development. (6) **8.**Physical and chemical properties of soil. (6) **9.**USDA classification of soil and its management. (4)	**2.**Construction and interpretation of hythergraph and climograph (20) **3.**Determination of soil type by ternary diagram (10)	AM
			Unit III Biogeography **10.** Ecosystem and biome (6) **11** Plant types and ecological adaptations (5) **12**. Biodiversity(4)	**4**. Preparation of biodiversity register (10)	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B. Sc Honours In Geography -Semester VI (Under CBCS)

Session – 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC13 (Evolution of geographical thought)	4 (th)+2(pr)	**Unit I Nature of pre modern geography** **1.** Development of pre modern geography. (5) **2.**Impact of dark age. (5) **3.**Geography during the age of discovery and exploration. (5) **4.**Transition from cosmography to scientific geography. (7)		AM
			Unit II Foundation of Modern geography and recent trends. **5.** Evolution of geographical thought in Germany, Britain, France and America(5) **6** Humbildt and Ritter (3) **7.**Contribution of Richthofen, Hurtshrone, Schaeffer, Ratzel, De La blache. (6) **8.** Trends in poet world war 2 (7) **9.**Structuralism and historical materialism (3) **10.** Changing concept of space (50 **11.** Evolution of critical geography (5) **12.** Post modernism (5)		AP

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			-	**1.** Changing perception of map **2.** Mapping voyages **3.** Poster presentation in group.- .	AM, AP
	CC 14 (Hazard Management)	4 (th)+2(pr)	**Unit I Concepts** **1.**C lassifiaction. (4) **2.** Approaches to hazard study (5) **3.** Responses to hazard (5) **4.** Hazard mapping (5)	-	KM
			Unit II Hazard specific study **5.**Earthquake. (5) **6.**Land slide. (5) **7.** Land subsidence(5) **8.**Tropical cyclone. (5) **9.** Flood(5) **10.**River bank erosion(5) **11.** Fire (5) **12.** Bio hazard (5) .		PDG
				Group project on hazard and its management (10)	PDG, KM, AM, AP,SG,NR
	DSE A 6 (Resource Geography)	4(th)+2(pr)	**Unit I** **Resource and development-** **1.** Concept and classification.(4) **2**AApproaches to resource utilization.(6) **3.**Significance of resource. (5) **4.**Pressure on resource.(5) **5.**Problems of resource depletion.(7) **6.** Sustainable resource development.(3)		NR
			Unit II. **Resouce conflict and management -** **7.**Distribution, utilization and problems of metallic minerals and resources.(6) **8.**Distribution,		SG

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			utilization and problems of non-metallic minerals and resources.(6) **9.** Conventional and non-conventional energy resource. (6) **10.**Contemporary energy crisis and future scenario(4) **11.**Politics of power resources (3) **12.**Limits to growth and sustainable use of resources (5)		
				1.Mapping and area estimate of vegetation(15)	PDG
			11. National action plans on climate change. .(5) **12.** Role of urban local bodies. .(5)	**2.**Mapping and number estimate of water bodies (15) **3.** Decadal changes in state-wise production of iron and coal (15) **4.**Human development index (15)	KM
	DSE B 6 (Geography of India)	4(th)+2(pr)	**Unit I Geography of India** **1.** Physiography. (5) **2.** Climate, soil and vegetation. (6) **3.** Population. (4) **4.**Tribes. (4) **5.** Agricultural regions(4)	**13.** Monthly temperature and rainfall graphs of five stations from different physiographic regions of India (5)	PDG
			6. Mineral and power resources(6) **7.** Industrial development (3) **8.** industrialization (7)		AP
			Unit II Geography of West Bengal **9.** Physical perspective(5) **10.** Resources (6) **11.** Population (4) **12.** Regional Issues (4)	**14.** Crop combination of West Bengal	KM
				15. Annual trend of production(20) **16.**Composite index (10)	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester VI

B,Sc General with Geography (Under CBCS)

Session – 2020 - 21

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	DSE –B6 (Population Geography)	4(th)+2(pr)	**Unit I Population Dynamics** **1.** Development of population geography(6) **2.**Population distribution. (6) **3.** World pattern and determinants of population(4) **4.**Population density, distribution and growth in India. (4)	**1.** Population projection by arithmetic method. (15) **2.** Populationdensity mapping. (15)	NR
			Unit I Population and development **5.** Population composition. (5) **6.** Fertility and mortality. (5) **7.** Population composition in India(7) **8.**Migration. (3) **9.**National and international pattern of migration. (5) **10.**Population and development. (5) **11.** Population policies in developed and less developed countries (5) 12. Contemporary issues (5)	**3.** Analysis of work participation rate (15) **4.** Analysis of occupation structure by dominant and distinctive functions (15)	AM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B. Sc Honours In Geography (Under CBCS)

Session – 2019 - 2020

Program	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC1 (Geotectonics and Geomorphology)	4(th)+ 2(pr)	**Unit – I Geotectonics** **1.** Earth's tectonic and structural evolution with ref to geological time scale(3) **2.** Earth's interior and Isostacy(3) **3.** Plate tectonics(10)		AM
			Unit – II Geomorphology **5.** Degradational processes – weathering and mass wasting(4) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			Unit – I Geotectonics **4.** Folds and faults(4) **Unit – II Geomorphology** **8.**Development of river network and landforms on granite, basalt and limestone. (4) **12.**Role of time in geomorphology – Schumm and Lichty's model and models on landscape evolution – Davis, Penck, King and Hack (8)	-	AP
			Unit – II Geomorphology **6.** Processes of entrainment, transportation and deposition and role of human in landform development. (4) **9.** Coastal processes and landforms(4)	**3.** Extraction and interpretation of geomorphic information from Survey of India topographical maps.(35). **4.** Construction of hypsometric curveand	PDG

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			-	derivation of hypsometric integer(5)	
			Unit – II Geomorphology **10.**Glacial and glacio-fluvial processes and landforms. (4)	**1.** Measurement of dip and strike using clinometer(6) **2.** Megascopic identification of rock and mineral samples(14	KM
			Unit – II Geomorphology **7.** Development of river network and landforms onuniclinal and folded structure, surface expression of faults. (7) **11.**Aeolian and fluvio-aeolian processes and landforms (4)		NR
	CC 2 (Cartographic Techniques)	4(th)+ 2(pr)	**1.** Maps – components and classification(4) **2.**Scales – plain, comparative, diagonal and vernier (8) **3.**.Representation of data using dots, spheres and proportional circles (5)	**1.** Construction of scales(16)	KM
			4.Concept of generating globe. (2) **5.**Grids – angular and linear system of measurement. (5) **8.** Map projection – classification, properties and uses(8) **9.** Concept and significance of UTM projection(2)	**2.** Construction of projections – Polar zenithal stereographic, simple conic with one standard parallel, Bonne's and cylindrical equal area (17) -	PDG
			6.Bearing – magnetic and true, whole circle and reduced (5) **12.**Survey of India topographical maps – reference scheme and the information on the margin (6)	**2.** Construction of projections – Mercator's(3) **3.** Thematic maps – Proportional squares, divided proportional circles, dots and spheres (12)	AP
				4. Thematic maps – Choropleth, isopleths and chorochromatic(12)	AM
			11. Representation of data using isopleths, choropleth and chorochromatic maps (5)		SG

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B.Sc General with Geography (Under CBCS)

Session 2019 - 20

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC1 (Physical geography)	4(th)+ 2(pr)	**Unit 1 Geotectonics** **1.**Eart's interior (3) **2.**Plate tectonics. (7) **3.**Folds and faults. (6)	**16.**.Extraction of drainage information from SOI topographical maps (20)	AM
			Unit II Geomorphology **4.**Degradational processes – weathering, mass wasting (4) **5.**Principal geomorphic agents and landforms– fluvial, coastal, Aeolian and glacial.(12) **6.**Models of slope evolution . (6)	)	SG
			Unit III Hydrology **7.** Global hydrologic cycle(2) **8** Run off(3) **9**Drainage basin as a hydrological unit (3)	**15.** ..Extraction of physiographic information from SOI topographical maps (20)	NR
			Unit IV Oceanography **10.** Physical and chemical properties of ocean water(4) **11,** Ocean circulation, wave, tide(7) **12.**Marine resources 3)	**13.** Megascopic identification of rocks(8) **14.** Megascopic identification of minerls(12)	AP

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B. Sc Honours In Geography (Under CBCS)

Session – 2019 - 20

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC5 (Climatology)	4 (th)+2(pr)	**Unit – I Elements of Atmosphere** **1.** Nature, composition and layering of atmosphere. (4) **2.** Insolation. (6) **4.**Overview of climate change. (4)		AM
			Unit – II Atmospheric phenomena and climatic classification **5.** Condensation (6) **8.** Weather Stability and instability (5) **9.** Circulation in the atmosphere. (5) **10.** Atmospheric disturbance. (5) **12.** Climatic classification. (5)-	**2.** Interpretation of daily weather map of India. (20) **4.** Construction and interpretation of wind rose. (10)	SG
				1. Measurement of weather elements using analogue instruments. (15)-	KM
			-	**3.** Construction and interpretation of hythergraph and climograph. (15)	AP
			Unit – I Elements of Atmosphere **3.** Temperature. (6) **Unit – II Atmospheric phenomena and climatic classification** **6.** Air mass. (4) **7.** Fronts. (5)	-	No teacher

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			12. Monsoon. (5)		
	CC 6 (Hydrology and Oceanography)	4 (th)+2(pr)	**Unit – II Oceanography** **5.** Major relief features of the ocean floor. (6) **6.** Physical and chemical properties of ocean water. (4) **7.** Water mass. (4) **8,** Air sea interaction. (8) **9.** Ocean temperature and salinity. (4) **10.** Coral reefs. (5)	**1.** Construction and interpretation of rating curve. (10) **2.** Construction and interpretation of hydrograph and unit hydrograph. (15) **3.** Construction and interpretation of monthly rainfall dispersion diagram. (25) **4.** Construction of Theissen polygon. (10)	PDG
			Unit – I Hydrology **1.** Systems approach in hydrology. (5) **2.** Run-off. (5)	-	No Teacher
			Unit – I Hydrology **3.** Drainage basin as a hydrological unit. (5) **4.** Groundwater. (5) **Unit – II Oceanography** **11.** Marine resource. (4) **12.** Sea level change. (5)	-	AP
	CC7 (Statistical Methods in Geography)	4 (th)+2(pr)	**Unit – I Frequency distribution and sampling -** **6.** Importance and significance of statistics in geography. (4) **7.** Discrete and continuous data. (5) **8.** Sources of geographical data for statistical analysis. (4) **9.** Collection of data and preparation of table. (5) **10.** Sampling. (4) **11.** Theoretical distribution. (6)	**18.** Construction of data matrix. (15) **19.** Measures of central tendency. (15) **20.** Sampling. (15)	KM
			Unit – II Numerical data analysis – **12.** Central tendency. (6) **13.** Measures of	**21.** Scatter diagram, linear regression, residual mapping. (15)	NR

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			dispersion range. (6) **14.** Association and correlation. (5) **15.** Regression. (5) **16.** Time series analysis. (5) **17.** Hypothesis testing. (5)		
	SEC A (Tourism Management)	2(th)	**1.** Scope and nature. (10) **2.** Use of information on factors for tourism planning. (5) **3.** Tourism impact assessment. (8)	No practical component	NR
			4. Increasing global tourism and tourism in India. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester III

B.Sc General with Geography (Under CBCS)

Session 2019 - 20

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOG	CC3 (Human Geography)	4 (th)+ 2(pr)	**Unit 1 Economic geography** **1.** Sectors of economy. (5) **2.** Location of economic activities. (5) **4.** Globalization. (5)	**2.** Time series analysis. (20)	AM
			Unit II Social Geography **5.** Human society. (5) **6.** Types and characteristics of social organizations. (5) **7.** Race, language and religion. (6) **8.** Social issues. (5)	**3.** Arithmetic growth rate. (15) **4.** Nearest Neighbour analysis. (10)	SG
			Unit III Cultural geography **1.** Carl Sauer. (6) **3.** Cultural regions and cultural realms. (5) **4.** Diffusion of culture and innovations. (4)	**1.** State wise variation in occupational structure. (15)	AP
			Unit I Economic geography **3.** Location of industries. (5) **Unit III Cultural geography** **2.** Rural and urban settlements. (5)	-	No teacher
	SEC A (Coastal Management)	2(th)	**1.** Components of coastal zone. (7)	No practical component	AM
			2. Environmental impact and management of oil exploration, salt manufacturing, land reclamation and tourism. (8) **3.** Coastal hazards and their management. (8)		AP
			4. Principles of coastal zone management. (7)		No teacher

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B. Sc Honours In Geography (Under CBCS)

Session – 2019 - 2020

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC3 (Human Geography)	4 (th)+2(pr)	**Unit – I Nature and principles** **1.** Nature, scope and recent trends(4) **2.** Approaches to human geography (6) **3.** Concept and classification of race, ethnicity (5) **4.** Scope, society and cultural regions (5)		AM
			Unit – II Demography and ekistics **5.** Evolution of human societies(6) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			10. Types and patterns of rural settlements. (5) **11.**Rural house types in India (5) **12**. Morphology and hierarchyof urban settlements.(5)	-	AP
			)	**1.** Spatial variation in religious composition by proportional divided circles. (12).	PDG

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				2. Arithmetic growth rate of population (15) **3.** Age-sex pyramids(20) **4.** Nnearest neighbor analysis (13)-	
	CC 4 (Thematic mapping and surveying)	4 (th)+2(pr)	**1.** Conceptof rounding, scientificnotation, logarithm (4) **3.**Prepaartion and interpretation of geological maps (5)	**2.** Interpretation of geological maps(20)	AP
			2. Concept of diagrammatic representation of data.. (2) **4.**Prepaartion and interpretation of weather maps. (5) **5.** Prepaartion and interpretation of land use land cover maps(5) **6.** Prepaartion and interpretation of socio-economic maps (5)	-	PDG
			7 Principal national agencies producing thematic maps. (5)		NR
			8.Concept of survey and survey equipment:Prismatic compass (5) **9.** Concept of survey and survey equipment:Dumpy level (7) **10.** Concept of survey and survey equipment:Theodolite. (7) **11.** Concept of survey and survey equipment:Abney level (5) **12.** Concept of survey and survey equipment:Laser distance measurer (5)	**1.** Traverse survey by prismatic compass(10) **2.**Profile survey using dumpy level (12) **3.** Height determination by theodolite(18)	KM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B.Sc General with Geography (Under CBCS)

Session 2019 - 2020

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC2 (Environmental geography)	4 (th)+2(pr)	**Unit 1 Climatology** **1.**Insolation and heat budget (5) **2.**Planetary wind systems. (6) **3.**Atmospheric disturbance. (7) **4.**Global climate change (5) **5** Climatic classification (5)	**1.**.Interpretation of daily weather map (20)	AM
			Unit II Soil geography **6.**Factors of soil formation (4) **7.**Soil profile development. (6) **8.**Physical and chemical properties of soil. (6) **9.**USDA classification of soil and its management. (4)	**2.**Construction and interpretation of hythergraph and climograph (20) **3.**Determination of soil type by ternary diagram (10)	AP
			Unit III Biogeography **10.** Ecosystem and biome (6) **11** Plant types and ecological adaptations (5) **12.** Biodiversity(4)	**4.** Preparation of biodiversity register (10)	NR

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Semester II

B. Sc Honours In Geography (Under CBCS)

Session – 2018 - 2019

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC3 (Human Geography)	4 (th)+2(pr)	**Unit – I Nature and principles** **1.** Nature, scope and recent trends(4) **2.** Approaches to human geography (6) **3.** Concept and classification of race, ethnicity (5) **4.** Scope, society and cultural regions (5)		AM
			Unit – II Demography and ekistics **5.** Evolution of human societies(6) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			10. Types and patterns of rural settlements. (5) **11.**Rural house types in India (5) **12.** Morphology and hierarchyof urban settlements.(5)	-	AP
			)	**1.** Spatial variation in religious composition by proportional divided circles. (12).	PDG

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				2. Arithmetic growth rate of population (15) **3.** Age-sex pyramids(20) **4.** Nnearest neighbor analysis (13)-	
	CC 4 (Thematic mapping and surveying)	4 (th)+2(pr)	**1.** Conceptof rounding, scientificnotation, logarithm (4) **3.**Prepaartion and interpretation of geological maps (5)	**2.** Interpretation of geological maps(20)	NR
			2. Concept of diagrammatic representation of data.. (2) **4.**Prepaartion and interpretation of weather maps. (5) **5.** Prepaartion and interpretation of land use land cover maps(5) **6.** Prepaartion and interpretation of socio-economic maps (5)	-	PDG
			7 Principal national agencies producing thematic maps. (5)		AP
			8.Concept of survey and survey equipment:Prismatic compass (5) **9.** Concept of survey and survey equipment:Dumpy level (7) **10.** Concept of survey and survey equipment:Theodolite. (7) **11.** Concept of survey and survey equipment:Abney level (5) **12.** Concept of survey and survey equipment:Laser distance measurer (5)	**1.** Traverse survey by prismatic compass(10) **2.**Profile survey using dumpy level (12) **3.** Height determination by theodolite(18)	KM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester II

B.Sc General with Geography (Under CBCS)

Session 2018 - 19

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC2 (Environmental geography)	4 (th)+2(pr)	**Unit 1 Climatology** **1.**Insolation and heat budget (5) **2.**Planetary wind systems. (6) **3.**Atmospheric disturbance. (7) **4.**Global climate change (5) **5** Climatic classification (5)	**1.**.Interpretation of daily weather map (20)	AM
			Unit II Soil geography **6.**Factors of soil formation (4) **7.**Soil profile development. (6) **8.**Physical and chemical properties of soil. (6) **9.**USDA classification of soil and its management. (4)	**2.**Construction and interpretation of hythergraph and climograph (20) **3.**Determination of soil type by ternary diagram (10)	NR
			Unit III Biogeography **10.** Ecosystem and biome (6) **11** Plant types and ecological adaptations (5) **12.** Biodiversity(4)	**4.** Preparation of biodiversity register (10)	AP

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B. Sc Honours In Geography – Part III (Under 1+1+1)

Session – July 2019 to June 2020

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOA Part III	Module IX (Population and settlement geography)	50(Th)	**Unit – I** Population dynamics (12) **Unit II** Demographic attributes (13)		NR
			Unit III Rural settlements (12) **Unit IV** Urban settlements (13)		SG
	Module X (Regional geography of India)	50(Th)	**Unit I** Concepts and bases (11) **Unit II** General geography of India (15)		PDG
			Unit III Case studies (12) **Unit IV** Studies of geographical problems (12)		AP
	Module XI (Philosophy of geography)	50(Th)	**Unit I** Nature of geography (12) **Unit II** Basic concepts (13) **Unit III** Modern thoughts (12) **Unit IV** Contemporary thoughts (13)		AM
	Module XII (Contemporary issues in geography)	50(Th)	**Unit I** Climatic and biotic hazards in Indian subcontinent (12) **Unit II**		KM

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			Other terrestrial hazards in Indian subcontinent (14)		
			Unit III Human development in the 3rd world (24)		NR
	Module XIII (Mapping techniques)	50(Pr)		**Unit I** Map projection (20) **Unit II** Cartograms (16)	PDG
				Unit III Thematic mapping with climatic and soil data (10)	KM
	Module XIV (GIS and remote sensing)	50(Pr)		**Unit I** GIS (25) **Unit II** Remote sensing (25) **Unit IV** Field report	KM
	Module XV (Statistical techniques)	50(Pr)		**Unit I** Basic concepts(20) **Unit II** Dispersion and regression (25)	KM
	Module XVI (Contemporary techniques in Geography)	50(Pr)		**Unit I** Natural Hazard and their management (20)	PDG
				Unit II Economic and human development (16)	AP

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DEPARTMENT OF GEOGRAPHY

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B.A/B. Sc General in Geography – Part III (Under 1+1+1)

Session – July 2019 to June 2020

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOG Part III	Module VII (Land use and settlement Geography)	50(Th)	**7.1** Concept and attributes of land **7.2** Objectives and principles of land use. **7.3** Factors influencing land use and land categories (8)		AM
			7.4 Rural and urban settlement (6)		AP
	Module VIII (Remote sensing and thematic mapping)	20(Th)	**8.1** Definition and types of remote sensing. **8.2** Air photo. **8.3** Satellite imagery. **8.4** Thematic mapping (12)		SG
	Module IX (Applied geographical techniques)	30(Pr)		**9,1** Preparation of land use. **9.2** Thematic mapping. Flow diagram, accessibility map. **9.3** Air photo interpretation.	NR

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B. Sc Honours In Geography (Under CBCS)

Session – 2018 - 2019

Program	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B. Sc GEOA	CC1 (Geotectonics and Geomorphology)	4(th)+ 2(pr)	**Unit – I Geotectonics** **1.** Earth's tectonic and structural evolution with ref to geological time scale(3) **2.** Earth's interior and Isostacy(3) **3.** Plate tectonics(10)		AM
			Unit – II Geomorphology **5.** Degradational processes – weathering and mass wasting(4) **6.** Human adaptation to environment(4) **7.** Population growth and distribution (5) **8.**Population-resource regions. (5) **9.** Development-environment conflict (5)		SG
			Unit – I Geotectonics **4.** Folds and faults(4) **Unit – II Geomorphology** **8.**Development of river network and landforms on granite, basalt and limestone. (4) **12.**Role of time in geomorphology – Schumm and Lichty's model and models on landscape evolution – Davis, Penck, King and Hack (8)	-	AP
			Unit – II Geomorphology **6.** Processes of entrainment, transportation and deposition and role of human in landform development. (4) **9.** Coastal processes and landforms(4)	**3.** Extraction and interpretation of geomorphic information from Survey of India topographical maps.(35). **4.** Construction of hypsometric curveand	PDG

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			-	derivation of hypsometric integer(5)	
			Unit – II Geomorphology **10.**Glacial and glacio-fluvial processes and landforms. (4)	**1.** Measurement of dip and strike using clinometer(6) **2.** Megascopic identification of rock and mineral samples(14	KM
			Unit – II Geomorphology **7.** Development of river network and landforms onuniclinal and folded structure, surface expression of faults. (7) **11.**Aeolian and fluvio-aeolian processes and landforms (4)		NR
	CC 2 (Cartographic Techniques)	4(th)+ 2(pr)	**1.** Maps – components and classification(4) **2.**Scales – plain, comparative, diagonal and vernier (8) **3.**.Representation of data using dots, spheres and proportional circles (5)	**1.** Construction of scales(16)	KM
			4.Concept of generating globe. (2) **5.**Grids – angular and linear system of measurement. (5) **8.** Map projection – classification, properties and uses(8) **9.** Concept and significance of UTM projection(2)	**2.** Construction of projections – Polar zenithal stereographic, simple conic with one standard parallel, Bonne's and cylindrical equal area (17) -	PDG
			6.Bearing – magnetic and true, whole circle and reduced (5) **12.**Survey of India topographical maps – reference scheme and the information on the margin (6)	**2.** Construction of projections – Mercator's(3) **3.** Thematic maps – Proportional squares, divided proportional circles, dots and spheres (12)	AP
				4. Thematic maps – Choropleth, isopleths and chorochromatic(12)	AM
			11. Representation of data using isopleths, choropleth and chorochromatic maps (5)		SG

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

Semester I

B.Sc General with Geography (Under CBCS)

Session 2018 - 19

Programme	Course	Credit	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
B.Sc GEOG	CC1 (Physical geography)	4(th)+ 2(pr)	**Unit 1 Geotectonics** **1.**Eart's interior (3) **2.**Plate tectonics. (7) **3.**Folds and faults. (6)	**16.**.Extraction of drainage information from SOI topographical maps (20)	AM
			Unit II Geomorphology **4.**Degradational processes – weathering, mass wasting (4) **5.**Principal geomorphic agents and landforms– fluvial, coastal, Aeolian and glacial.(12) **6.**Models of slope evolution . (6)	)	SG
			Unit III Hydrology **7.** Global hydrologic cycle(2) **8** Run off(3) **9**Drainage basin as a hydrological unit (3)	**15.** ..Extraction of physiographic information from SOI topographical maps (20)	NR
			Unit IV Oceanography **10.** Physical and chemical properties of ocean water(4) **11,** Ocean circulation, wave, tide(7) **12.**Marine resources 3)	**13.** Megascopic identification of rocks(8) **14.** Megascopic identification of minerls(12)	AP

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B. Sc Honours In Geography – Part II (Under 1+1+1)

Session – July 2018 to June 2019

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOA Part II	Module 5 (Climatology)	50(Th)	**Unit – I** Atmospheric layers and thermal variation (11) **Unit II** Wind Circulation –(13) **Unit IV** Weather Disturbance and climatic classification after Koppen and Thornthwaite (13)		PDG
			Unit III Precipitation and airmass (13)		AM
	Module VI (Soil and Biogeography)	50(Th)	**Unit I** Soil formation, profile characteristics and properties (14) **Unit II** Soil and land management (12)		KM
			Unit III Concepts in Bio-geography (11) **Unit IV** Ecological aspects of bio-geography (13)		AP
	Module VII (Social, cultural and political geography)	50(Th)	**Unit I** Concepts in Social Geography (12) **Unit II** Components of Social Geography(13) **Unit III** Cultural Geography (11)		AS
			Unit IV Political geography (14)		SG
	Module VII (Map Interpretation and survey with instruments)	50(Pr)		**Unit I** Topographical sheet (20)	PDG
				Unit II Surveying with instruments (16)	KM

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DEPARTMENT OF GEOGRAPHY

TEACHING PLAN

B.A/B. Sc General in Geography – Part II (Under 1+1+1)

Session – July 2018 to June 2019

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOG Part II	Module III (Climatology, soil and bio geography)	50(Th)	**3.1** Insolation and heat budget. **3.2** Monsoon. **3.3** Climatic classification(10)		AM
			3.4 Origin of soil. **3.5** Properties of soil. **3.6** Ecosystem and biome **3.7** Plant types distribution.(15)		AP
	Module IV (Regional geography of India)	50(Th)	**4.1**Concept of region. **4.2**Physiographic regions of India. **4.3**Vagaries of Indian monsoon. **4.4** Regions of India(20)		SG
	Module V (Applied geographical techniques I)	50(Pr)		**5,1** Scale. **5.2**.Statistics. **5.3** Map Interpretation.(25)	AS
	Module VI (Applied geographical techniques II)	50(Pr)		**6,1** Map projection. **6.2**.Cartograms.	AP
				6.3.Field report.	AM

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DEPARTMENT OF GEOGRAPHY

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B. Sc Honours In Geography – Part III (Under 1+1+1)

Session – July 2018 to June 2019

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOA Part III	Module IX (Population and settlement geography)	50(Th)	**Unit – I** Population dynamics (12) **Unit II** Demographic attributes (13)		SG
			Unit III Rural settlements (12) **Unit IV** Urban settlements (13)		AS
	Module X (Regional geography of India)	50(Th)	**Unit I** Concepts and bases (11) **Unit II** General geography of India (15)		PDG
			Unit III Case studies (12) **Unit IV** Studies of geographical problems (12)		AS
	Module XI (Philosophy of geography)	50(Th)	**Unit I** Nature of geography (12) **Unit II** Basic concepts (13) **Unit III** Modern thoughts (12) **Unit IV** Contemporary thoughts (13)		AM
	Module XII (Contemporary issues in geography)	50(Th)	**Unit I** Climatic and biotic hazards in Indian subcontinent (12) **Unit II** Other terrestrial hazards in Indian		KM

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DEPARTMENT OF GEOGRAPHY

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B.A/B. Sc General in Geography – Part III (Under 1+1+1)

Session – July 2018 to June 2019

Programme	Course	Full Marks	Topics to be taught		Name of the Teacher
			Theoretical (classes allotted to each topic are shown within the parentheses)	**Practical** (classes allotted to each topic are shown within the parentheses)	
GEOG Part III	Module VII (Land use and settlement Geography)	50(Th)	**7.1** Concept and attributes of land **7.2** Objectives and principles of land use. **7.3** Factors influencing land use and land categories (8)		AM
			7.4 Rural and urban settlement (6)		AP
	Module VIII (Remote sensing and thematic mapping)	20(Th)	**8.1** Definition and types of remote sensing. **8.2** Air photo. **8.3** Satellite imagery. **8.4** Thematic mapping (12)		SG
	Module IX (Applied geographical techniques)	30(Pr)		**9,1** Preparation of land use. **9.2** Thematic mapping. Flow diagram, accessibility map. **9.3** Air photo interpretation.	NR

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

EVEN SEMESTER

Session 2022-23

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem II	Sem IV	Sem VII	Sem II	Sem IV	Sem VII	
Paramita Dasgupta	Associate Professor	05	05	04	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	04	06	06	-	-	-	**16**
Arundhuti Mukherjee	SACT	01	03	02	02	02	02	**12**
Achintya Pramanik	SACT	02	04	03	-	01	02	**12**
Saheli Ghosh	SACT	01	03	03	03	-	02	**12**
Nayan Roy	SACT	01	02	05	01	01	02	**12**
Classes not assigned to any Teacher due to shortfall		02	03	09	02	06	-	**22**
Total		**16**	**26**	**32**	**08**	**10**	**08**	**100**

Programme	Semester	Course	Credit	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	II	CC3, CC4	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	II	CC2	08	08
Geo Hons (GEOA)	IV	CC8,CC9,CC10, SEC -A	8+8+8+2=26	26
Geo Gen (GEOG)	IV	CC4, SEC -B	8+2=10	10
Geo Hons (GEOA)	VI	CC13,CC14, DSE-A,DSE-B	8+8+8+8=32	32
Geo Gen (GEOG)	VI	DSE B	8	8

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

ODD SEMESTER

Session 2022-23

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem I	Sem III	Sem V	Sem I	Sem III	Sem V	
Paramita Dasgupta	Associate Professor	05	05	04	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	04	06	06	-	-	-	**16**
Arundhuti Mukherjee	SACT	01	03	03	01	02	02	**12**
Achintya Pramanik	SACT	02	03	03	02	01	01	**12**
Saheli Ghosh	SACT	01	03	03	03	01	01	**12**
Nayan Roy	SACT	01	02	04	02	01	02	**12**
Classes not assigned to any Teacher due to shortfall		02	04	09	-	05	02	**22**
Total		**16**	**26**	**32**	**08**	**10**	**08**	**100**

Programme	Semester	Course	Credit	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	I	CC1, CC2	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	I	CC3	08	08
Geo Hons (GEOA)	III	CC5,CC6,CC7, SEC -A	8+8+8+2=26	26
Geo Gen (GEOG)	III	CC4, SEC -A	8+2=10	10
Geo Hons (GEOA)	V	CC11,CC12, DSE-A,DSE-B	8+8+8+8=32	32
Geo Gen (GEOG)	V	DSE A	8	8

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Kolkata - 700 094

DEPARTMENT OF GEOGRAPHY

Work Load Distribution

EVEN SEMESTER

Session 2021-22

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem II	Sem IV	Sem VII	Sem II	Sem IV	Sem VII	
Paramita Dasgupta	Associate Professor	04	05	05	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	04	06	06	-	-	-	**16**
Arundhuti Mukherjee	SACT	03	02	04	01	01	01	**12**
Achintya Pramanik	SACT	01	03	03	02	02	01	**12**
Saheli Ghosh	SACT	03	01	02	02	01	03	**12**
Nayan Roy	SACT	01	03	03	03	02	-	**12**
Classes not assigned to any Teacher due to shortfall		-	06	09	-	04	03	**22**
Total		**16**	**26**	**32**	**08**	**10**	**08**	**100**

Programme	Semester	Course	Credit	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	II	CC3, CC4	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	II	CC2	08	08
Geo Hons (GEOA)	IV	CC8,CC9,CC10, SEC -A	8+8+8+2=26	26
Geo Gen (GEOG)	IV	CC4, SEC -B	8+2=10	10
Geo Hons (GEOA)	VI	CC13,CC14, DSE-A,DSE-B	8+8+8+8=32	32
Geo Gen (GEOG)	VI	DSE B	8	8

N.B The work load distribution of the Odd Semester session i.e July, 2021-December, 2021 is not shown here as the period was under lock down due to outbreak of pandemic and online classes were taken during this period.

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

ODD SEMESTER

Session 2019-20 (From July, 2019 to December, 2019)

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem I	Sem III	3rd year	Sem I	Sem III	3rd year	
Paramita Dasgupta	Associate Professor	05	05	04	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	04	06	06	-	-	-	**16**
Arundhuti Mukherjee	PTT	01	03	02	02	02	02	**12**
Achintya Pramanik	Guest Lecturer	02	04	03	-	01	02	**12**
Saheli Ghosh	Guest Lecturer	01	03	03	03	-	02	**12**
Nayan Roy	Guest Lecturer	01	02	04	01	02	02	**12**
Classes not assigned to any Teacher due to shortfall		02	03	02	02	05	-	**14**
Total		**16**	**26**	**24**	**08**	**10**	**08**	**92**

Programme	Semester	Course	Credit	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	I	CC1, CC2	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	I	CC1	08	08
Geo Hons (GEOA)	III	CC5,CC6,CC7, SEC -A	8+8+8+2=26	26
Geo Gen (GEOG)	III	CC3, SEC -A	8+2=10	10
Geo Hons (GEOA)	V	CC11,CC12, DSE-A,DSE-B	8+8+8+8=32	32
Geo Gen (GEOG)	V	DSE A	8	8

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

EVEN SEMESTER

Session 2019-20 (From January, 2020 to June, 2020)

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem II	Sem IV	3rd year	Sem II	Sem IV	3rd year	
Paramita Dasgupta	Associate Professor	05	05	04	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	04	06	06	-	-	-	**16**
Arundhuti Mukherjee	PTT	01	03	02	02	02	02	**12**
Achintya Pramanik	Guest Lecturer	02	04	03	-	01	02	**12**
Saheli Ghosh	Guest Lecturer	01	03	03	03	-	02	**12**
Nayan Roy	Guest Lecturer	01	02	04	01	02	02	**12**
Classes not assigned to any Teacher due to shortfall		02	03	02	02	05	-	**14**
Total		**16**	**26**	**24**	**08**	**10**	**08**	**92**

Programme	Semester/year	Course	Credit/marks	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	II	CC3, CC4	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	II	CC2	08	08
Geo Hons (GEOA)	IV	CC8,CC9,CC10, SEC -A	8+8+8+2=26	26
Geo Gen (GEOG)	IV	CC3, SEC -A	8+2=10	10
Geo Hons (GEOA)	3rd year	4 papers	400	24
Geo Gen (GEOG)	3rd year	1 paper	100	8

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

Session 2018-19 (From July,2018 to December,2018)

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem I	2nd year	3rd year	Sem I	2nd year	3rd year	
Paramita Dasgupta	Associate Professor	05	03	06	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	06	03	07	-	-	-	**16**
Arundhuti Mukherjee	PTT	01	02	03	02	02	02	**12**
Achintya Pramanik	Guest Lecturer	03	02	04	02	01	02	**14**
Saheli Ghosh	Guest Lecturer	-	01	03	03	01	03	**11**
Arpita Sengupta	Guest Lecturer	01	02	01	01	04	01	**10**
Classes not assigned to any Teacher due to shortfall		-	03	-	-	-	-	**03**
Total		**16**	**16**	**24**	**08**	**08**	**08**	**80**

Programme	Semester/year	Course	Credit/marks	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	I	CC1, CC2	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	I	CC1	08	08
Geo Hons (GEOA)	2nd year	2 papers	200	16
Geo Gen (GEOG)	2nd year	1 paper	100	08
Geo Hons (GEOA)	3rd year	4papers	400	24
Geo Gen (GEOG)	3rd year	1 paper	100	08

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DEPARTMENT OF GEOGRAPHY

Work Load Distribution

Session 2018-19 (From January, 2019 to June, 2019)

Name of the Teachers	Designation	Number of classes						Total
		Honours			General			
		Sem II	2nd year	3rd year	Sem I	2nd year	3rd year	
Paramita Dasgupta	Associate Professor	05	03	06	-	-	-	**14**
Kamonasish Mistry	Assistant Professor	06	03	07	-	-	-	**16**
Arundhuti Mukherjee	PTT	01	02	03	02	02	02	**12**
Achintya Pramanik	Guest Lecturer	03	02	04	02	01	02	**14**
Saheli Ghosh	Guest Lecturer	-	01	03	03	01	03	**11**
Nayan Roy	Guest Lecturer	01	02	01	01	04	01	**10**
Classes not assigned to any Teacher due to shortfall		-	03	-	-	-	-	**03**
Total		**16**	**16**	**24**	**08**	**08**	**08**	**80**

Programme	Semester/year	Course	Credit/marks	Classes Required per week (duration 1 hr)
Geo Hons (GEOA)	II	CC3, CC4	08(4 Th+4Pr)+08	16
Geo Gen (GEPG)	II	CC2	08	08
Geo Hons (GEOA)	2nd year	2 papers	200	16
Geo Gen (GEOG)	2nd year	1 paper	100	08
Geo Hons (GEOA)	3rd year	4papers	400	24
Geo Gen (GEOG)	3rd year	1 paper	100	08

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Sammilani Mahavidyalaya

(NAAC ACCREDITED B++)

[AFFILIATED TO CALCUTTA UNIVERSITY]

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Ref.No.....

Date 10/8/22

NOTICE

Department of Geography

A meeting of the Department will be held on 16.8.2022 at 12:30 pm to discuss the agenda as mentioned in the following :-

- Confirmation of the minutes of the previous meeting.
- Framing of the routine for the newly admitted first semester class.
- Commencement of Certificate course on Computer Application.
- Distribution of ODD Semester Syllabus among the faculties.
- Miscellaneous.

All the members are earnestly requested to joint the meeting.

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Kolkata - 700 094

Tanmoyee Dungdung
Head, Department of Geography

Head
Department of Geography
Sammilani Mahavidyalaya
Baghajatin Sta... Bypass
Kolkata ... 094

MATHEMATICS

DEPARTMENT OF MATHEMATICS

Teaching Plan for ODD SEMESTER

Academic Session: **2022-23 (July-December, 2022)**

B. Sc. SEMESTER-V

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-11	**Unit-I to V**	Probability & Statistics	6	Mrs. Sukti Sen (SMV)
CC-12	**Unit- I**	Group Theory	3	Dr. Ramkrishna Prasad Chakraborty (KKDC)
	Unit- II	Linear Algebra	3	MBS (KKDC)
DSE-A-1	**Unit- I & II**	Advanced Algebra	6	Dr. Sumita Das (SMV)
DSE-B-1	**Unit – I,II,III**	L.P.P. & Game Theory	4	Dr. Nasima Munshi (KKDC) + Mrs. Anupama Roy Choudhury (KKDC)
	Unit- IV		2	Dr. Raju Haldar (SMV)
MTMG				
DSE – A	**Unit -I**	Graph Theory Definition, examples & basic properties of Graph Definition of Trees & Kuratowski's graphs.	2	Dr. Raju Haldar (SMV)
	Unit -II	Paths & circuits…..Floyd-warshall algorithm	2	Mrs. Anupama Roy Choudhury (KKDC)

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SUMITA DAS 22/07/2022
DEPT. OF MATHEMATICS

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Sammilani Mahavidyalaya
Kolkata—75

DEPARTMENT OF MATHEMATICS

Teaching Plan for ODD SEMESTER

Session **2022 – 2023**

B. Sc. SEMESTER – III

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-5	**Unit-I**	Limit & Continuity Functions	3	Mrs. Sukti Sen
	Unit-II	Differentiablity of Functions	3	Dr. Malay Ray
CC-6	**Unit- I & II**	Ring Theory & Linear Algebra	6	Dr. Sumita Das
CC7	**Unit – I**	Ordinary Differential Equations	3	Dr. Raju Haldar
	Unit – II	Multivariate Calculas-1	3	Dr. Malay Ray
SEC B		SageMath	2	Dr. Malay Ray
MTMG				
CC/ GE-3	**Unit - I**	Integral calculus	1	Dr. Raju Haldar
	Unit-II	Numerical Methods	2	Dr. Malay Ray
	UNIT - III	L.P.P.	1+1	Mrs. Sukti Sen + Dr. Raju Haldar

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DEPT. OF MATHEMATICS

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Kolkata—75

DEPARTMENT OF MATHEMATICS

Teaching Plan for ODD SEMESTER

Session **2022 – 2023**

B. Sc. SEMESTER – I

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-1	**Unit-I & III**	Calculas & Vector Analysis	3	Dr. Raju Haldar
	Unit-II	Geometry	3	Dr. Malay Ray
CC-2	**Unit- I**	Algebra	2+1	Mrs. Sukti Sen + Dr. Raju Haldar
	Unit-II		1+1	Dr. Sumita Das + Mrs. Sukti Sen
	Unit -III		1	Dr. Sumita Das
MTMG				
CC/ GE 1	**Unit - I**	Algebra	1	Mrs. Sukti Sen
	Unit-II	Differential Calculas-1	1	Dr. Sumita Das
	UNIT - III	Differential Equation-1	1	Dr. Raju Haldar
	UNIT - IV	Coordinate Geometry	1	Dr. Malay Ray

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DEPT. OF MATHEMATICS

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Kolkata—75

DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR EVEN SEMESTER
Session **2022-23(January to June, 2023)**
B. Sc. SEMESTER-VI
MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	Name of the Assigned Faculty
CC-13	**Unit-1**	Metric Space	3	Dr. Sumita Das (SMV)
	Unit- 2	Complex Analysis	3	Mrs. Anupama Roy Choudhury (KKDC)
CC-14	**Unit- 1 to 6**	Numerical Methods(TH)	4	Dr. Nasima Munshi (KKDC) + Mohan B Subba(KKDC)
		Practical	4	Dr. Nasima Munshi (KKDC) + Mohan B Subba(KKDC)
DSE-A-2	**Unit- 1 & 2**	Mathematical Modelling	6	Dr. Malay Ray + Dr. Raju Haldar (SMV)
DSE-B-2 (Option 1)	**Unit –1,2,3**	Point Set Topology	6	Dr. Sumita Das (SMV)
DSE-B-2 (Option 2)	**Unit – 1,2,3,4**	Advanced Mechanics	3+ 3	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray
		MTMG		
DSE – A	**Unit -1,2,3**	Advanced Calculus	4	Dr. Raju Haldar (SMV)
SEC B	**Unit -1, 2**	Boolean Algebra	1+1	Dr. Sumita Das (SMV) + Dr. Raju Haldar (SMV)

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DEPT. OF MATHEMATICS

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B. Sc. SEMESTER – IV

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	To Be Taken By
CC-8	**Unit-1,2,3**	Rimann Integration and Series of functions	6	Mrs. Sukti Sen
CC-9	**Unit- 1**	Partial Differential Equations	3	Dr. Raju Haldar
	Unit – II	Multivariate Calculus-II	3	Mohan B Subba
CC10	**Unit – 1.2**	Mechanics(First Part)	2	Dr. Raju Haldar
	Unit- 3,4,5	Mechanics(2nd Part)	4	Dr. Malay Ray
SEC B		Sage Math	2	Dr. Malay Ray

MTMG

CC/ GE-4	**Unit - 1**	Algebra II	1	Dr. Malay Ray
	Unit-2	Computer Science and Programming	2	Dr. Malay Ray
	UNIT - 3	Probability & Statistics	2	Mrs. Sukti Sen

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SUMITA DAS 09/02/2023
DEPT. OF MATHEMATICS

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B. Sc. SEMESTER – II

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	To Be Taken By
CC-3	Unit- 1,2,3	Real Analysis	6	Mrs. Sukti Sen
CC-4	Unit- 1,2,3	Group Theory I	6	Dr. Sumita Das
		MTMG		
CC2/ GE 2	Unit - 1	Differential Calculus-II	1	Dr. Malay Ray
	UNIT – 2,3	Differential Equation-II Vector Algebra	2	Dr. Raju Haldar
	UNIT - 4	Discrete Mathematics	2	Mrs. Sukti Sen

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DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2021 – 2022(July to December)**

B. Sc. SEMESTER-V

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-11	**Unit-I to V**	Probability & Statistics	6	Mrs. Sukti Sen (SMV)
CC-12	**Unit- I**	Group Theory	3	Dr. Sumita Das (SMV)
	Unit- II	Linear Algebra	3	MBS (KKDC)
DSE-A-1	**Unit- I & II**	Advanced Algebra	6	Dr. Sumita Das (SMV)
DSE-B-1	**Unit – I,II,III**	L.P.P. & Game Theory	4	Dr. Nasima Munshi (KKDC) + Mrs. Anupama Roy Choudhury (KKDC)
	Unit- IV		2	Dr. Raju Haldar (SMV)
MTMG				
DSE – A	**Unit -I**	Particle Dynamics	2	Dr. Nasima Munshi (KKDC) + Dr. Raju Haldar (SMV)
	Unit -II	Do	2	Dr. Nasima Munshi (KKDC)

NB:
SMV : Sammilani Mahavidyalaya
KKDC: K. K. Das College

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DEPT. OF MATHEMATICS

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DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2021 – 2022(July to December)**

B. Sc. SEMESTER – III

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-5	**Unit-I**	Limit & Continuity Functions	3	Mrs. Sukti Sen (SMV)
	Unit-II	Differentiablity of Functions	3	Dr. Malay Ray (SMV)
CC-6	**Unit- I & II**	Ring Theory & Linear Algebra	6	Dr. Sumita Das (SMV)
CC7	**Unit – I**	Ordinary Differential Equations	3	Dr. Raju Haldar (SMV)
	Unit – II	Multivariate Calculus-1	3	Mr. Mohan bir Subba (KKDC)
SEC B		SageMath	2	Dr. Malay Ray (SMV)
MTMG				
CC/ GE-3	**Unit - I**	Integral calculus	1	Dr. Raju Haldar
	Unit-II	Numerical Methods	2	Dr. Malay Ray
	UNIT - III	L.P.P.	1+1	Mrs. Sukti Sen + Dr. Raju Haldar

NB:
SMV : Sammilani Mahavidyalaya
KKDC: K. K. Das College

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DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2021 – 2022(July to December)**
B. Sc. SEMESTER – I

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-1	**Unit-I & III**	Calculus	2	Mrs. Anupama Roy Choudhury (KKDC)
		Vector Analysis	1	Dr. Raju Haldar (SMV)
	Unit-II	Geometry	3	Dr. Malay Ray (SMV)
CC-2	**Unit- I**	Algebra	2+1	Mr. Mohan bir Subba + Mrs. Sukti Sen
	Unit-II		1+1	Mrs. Anupama Roy Choudhury (KKDC) + Mrs. Sukti Sen (SMV)
	Unit -III		1	Dr. Sumita Das (SMV)
MTMG				
CC/ GE 1	**Unit - I**	Algebra	1	Mrs. Sukti Sen (SMV)
	Unit-II	Differential Calculas-1	1	Mrs. Anupama Roy Choudhury (KKDC)
	UNIT - III	Differential Equation-1	1	Dr. Raju Haldar (SMV)
	UNIT - IV	Coordinate Geometry	1	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray (SMV)

NB:
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KKDC: K. K. Das College

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DEPARTMENT OF MATHEMATICS

Teaching plan for EVEN SEMESTER

Session **2022 (January to June)**

Session (2021-22)

B. Sc. SEMESTER-VI

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	Name of the Assigned Faculty
CC-13	**Unit-1**	Metric Space	3	Dr. R. P. Chakraborty(KKDC)
	Unit- 2	Complex Analysis	3	Mrs. Anupama Roy Choudhury (KKDC)
CC-14	**Unit- 1 to 6**	Numerical Methods(TH)	4	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray
		Practical	4	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray
DSE-A-2 (Option 1)	**Unit- 1 & 2**	Mathematical Modelling	6	Dr. Malay Ray + Dr. Raju Haldar
DSE-A-2 (Option 2)	**Unit – 1,2,3,4**	Fluid Statics & Elementary Fluid Dynamics	2+2+2	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray+ Dr. Raju Haldar
DSE-B-2	**Unit –1,2,3**	Point Set Topology	6	Dr. Sumita Das (SMV)

MTMG

DSE – A	**Unit -1,2,3**	Advanced Calculus	6	Mrs. Anupama Roy Choudhury (KKDC)

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B. Sc. SEMESTER – IV

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	To Be Taken By
CC-8	Unit-1,2,3	Rimann Integration and Series of functions	6	Mrs. Sukti Sen (SMV) + Dr. Raju Haldar (SMV)
CC-9	Unit- 1	Partial Differential Equations	3	Dr. Raju Haldar (SMV)
	Unit – II	Multivariate Calculus-II	3	Mohan B Subba
CC10	Unit – 1.2	Mechanics(First Part)	2	Dr. Raju Haldar (SMV)
	Unit- 3,4,5	Mechanics(2nd Part)	4	Dr. Malay Ray (SMV)
SEC B		Sage Math	2	Dr. Malay Ray (SMV)

MTMG

CC/ GE-4	Unit - 1	Algebra II	1	Dr. Sumita Das (SMV)
	Unit-2	Computer Science and Programming	2	Dr. Malay Ray (SMV)
	UNIT - 3	Probability & Statistics	2	Mrs. Sukti Sen (SMV)

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Sammilani Mahavidyalaya
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DEPARTMENT OF MATHEMATICS

Teaching Plan for EVEN SEMESTER

Session **2022**

B. Sc. SEMESTER – II

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	To Be Taken By
CC-3	**Unit- 1,2,3**	Real Analysis	6	Mrs. Sukti Sen (SMV)+ Dr. Raju Haldar (SMV)
CC-4	**Unit- 1,2,3**	Group Theory I	2+4	Mrs. Sukti Sen (SMV) + Dr. Sumita Das (SMV)

MTMG

CC2/ GE 2	**Unit - 1**	Differential Calculus-II	1	Dr. Sumita Das (SMV)
	UNIT – 2,3	Differential Equation-II Vector Algebra	2	Dr. Raju Haldar (SMV)
	UNIT - 4	Discrete Mathematics	2	Mrs. Sukti Sen (SMV)

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

SUMITA DAS
DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2020 – 2021**
(July to December, 2020)

B. Sc. SEMESTER-V

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-11	**Unit-I to V**	Probability & Statistics	6	Mrs. Sukti Sen (SMV)
CC-12	**Unit- I**	Group Theory	3	Dr. Sumita Das (SMV)
	Unit- II	Linear Algebra	3	Dr. Sumita Das (SMV)
DSE-A-1	**Unit- I & II**	Advanced Algebra	6	Dr. Sumita Das (SMV)
DSE-B-1	**Unit – I,II,III**	L.P.P. & Game Theory	4	Dr. Nasima Munshi (KKDC) + Mrs. Anupama Roy Choudhury (KKDC)
	Unit- IV		2	Dr. Raju Haldar (SMV)
MTMG				
DSE – A	**Unit -I**	Particle dynamics	4	Dr. Nasima Munshi (KKDC) + Dr. Raju Haldar (SMV)

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2020 – 2021**

B. Sc. SEMESTER – III

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-5	**Unit-I**	Limit & Continuity Functions	3	Mrs. Sukti Sen
	Unit-II	Differentiablity of Functions	3	Dr. Malay Ray
CC-6	**Unit- I & II**	Ring Theory & Linear Algebra	6	Dr. Sumita Das
CC7	**Unit – I**	Ordinary Differential Equations	3	Dr. Raju Haldar
	Unit – II	Multivariate Calculas-1	3	Dr. Malay Ray
SEC B	**Option I**	Mathematical logic	2	Mrs. Sukti Sen
	Option II	SageMath	2	Dr. Malay Ray
MTMG				
CC/ GE-3	**Unit - I**	Integral calculus	1	Dr. Raju Haldar
	Unit-II	Numerical Methods	2	Dr. Malay Ray
	UNIT - III	L.P.P.	1+1	Mrs. Sukti Sen + Dr. Raju Haldar

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR ODD SEMESTER
Session **2020 – 2021**

B. Sc. SEMESTER – I

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-1	**Unit-I & III**	Calculus & Vector Analysis	3	Dr. Raju Haldar
	Unit-II	Geometry	3	Dr. Malay Ray
CC-2	**Unit- I**	Classical Algebra	2+1	Mrs. Sukti Sen + Dr. Raju Haldar
	Unit-II	Abstract Algebra	1+1	Dr. Sumita Das + Mrs. Sukti Sen
	Unit -III	Linear Algebra	1	Dr. Sumita Das
MTMG				
CC/ GE 1	**Unit - I**	Algebra	1	Mrs. Sukti Sen
	Unit-II	Differential Calculus-1	1	Dr. Sumita Das
	UNIT - III	Differential Equation-1	1	Dr. Raju Haldar
	UNIT - IV	Coordinate Geometry	1	Dr. Malay Ray

ATTESTED

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Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

Sammilani Mahavidyalaya & K. K. Das College

DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR EVEN SEMESTER
Session **2020-21 (January to June, 2021)**

B. Sc. SEMESTER-VI

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	Name of the Assigned Faculty (Under Mou)
CC-13	**Unit-1**	Metric Space	3	Dr. Sumita Das (SMV)
	Unit- 2	Complex Analysis	3	Mrs. Anupama Roy Choudhury (KKDC)
CC-14	**Unit- 1 to 6**	Numerical Methods(TH)	4	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray (SMV)
		Practical	4	Dr. Malay Ray (SMV)
DSE-A-2 (Option 1)	**Unit- 1 & 2**	Mathematical Modelling	6	Dr. Malay Ray + Dr. Raju Haldar (SMV)
DSE-A-2 (Option 2)	**Unit 1,2,3,4**	Fluid Statics & Elementary Fluid Dynamics	6	Dr. Nasima Munshi (KKDC) + Dr. Malay Ray (SMV) + Dr. Raju Haldar (SMV)
DSE-B-2	**Unit –1,2,3**	Point Set Topology	6	Dr. Sumita Das (SMV)

MTMG

DSE – A	**Unit -1,2,3**	Advanced Calculus	6	Mrs. Anupama Roy Choudhury (KKDC)

NB:
SMV : Sammilani Mahavidyalaya
KKDC: K. K. Das College

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept of Mathematics
Sammilani Mahavidyalaya
Kolkata—74

B. Sc. SEMESTER – IV

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	Name of the Assigned Faculty (Under Mou)
CC-8	Unit-1,2,3	Rimann Integration and Series of functions	6	Mrs. Sukti Sen (SMV) + Dr. Raju Haldar (SMV)
CC-9	Unit- 1	Partial Differential Equations	3	Dr. Raju Haldar (SMV)
	Unit – II	Multivariate Calculus-II	3	Mohan B Subba (KKDC)
CC10	Unit – 1.2	Mechanics(First Part)	2	Dr. Raju Haldar (SMV)
	Unit- 3,4,5	Mechanics(2nd Part)	4	Dr. Malay Ray
SEC B		Sage Math	2	Dr. Malay Ray

MTMG

CC/ GE-4	Unit - 1	Algebra II	1	Mohan B Subba (KKDC)
	Unit-2	Computer Science and Programming	2	Dr. Malay Ray (SMV)
	UNIT - 3	Probability & Statistics	2	Mrs. Sukti Sen (SMV)

NB:

SMV : Sammilani Mahavidyalaya

KKDC: K. K. Das College

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept of Mathematics
Sammilani Mahavidyalaya
Kolkata-74

B. Sc. SEMESTER – II

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures / week	Name of the Assigned Faculty (Under Mou)
CC-3	**Unit- 1,2,3**	Theory of Real Functions	3 +3	Mrs. Sukti Sen (SMV) + Dr. Malay Ray (SMV)
CC-4	**Unit- 1,3**	Group Theory I	2+ 4	Mrs. Sukti Sen (SMV) Dr. Sumita Das (SMV)
		MTMG		
CC/ GE 2	**Unit - 1**	Differential Calculus-II	1	Mrs. Anupama Roy Choudhury (KKDC)
	UNIT – 2,3	Differential Equation-II Vector Algebra	2	Dr. Raju Haldar (SMV) + Mohan B Subba (KKDC)
	UNIT - 4	Discrete Mathematics	2	Mrs. Sukti Sen (SMV)

NB:

SMV : Sammilani Mahavidyalaya

KKDC: K. K. Das College

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DEPT. OF MATHEMATICS

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for (1+1+1System- 09 Regulations & CBCS)

Academic Session **2019 – 2020 (July-December, 2019)** (ODD SEM)

B. Sc. 3rd Year MTMA (Part III)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Fifth Paper	Module - IX	Group - A	Compactness in R, Function of BV, Partition & Refinement, Continuous function are Riemann integrable function	21	Dr. Sumita Das	Before Mid-Term (July – November)
	Module - X	Group - A	Section – I LT on vector Section – II Normal Sub-group	10	Smt. Sukti Sen	
		Group - B	Tensor Calculus	5	Smt. Sukti Sen	
		Group - C	Differential Equation II (Laplace Transformation)	5	Dr. Raju Haldar	
		Or Group - C	Graphs and Euler graphs	10	Dr. Malay Roy	
Sixth Paper	Module – XI	Group - A	Vector Calculus II	8	Dr. Raju Haldar	
		Group - B	Analytical Statics II(Centre of Gravity, Virtual work, Stable and unstable equilibrium)	17	Dr. Malay Roy	
		Group - C	Dynamics of a Particle II (Central Orbits, Planetary motion, motion of particle through curves)	10	Dr. Malay Roy	
	Module - XII	Group - A	Characteristics of fluid, Centre of pressure, Equilibrium of fluids	15	Dr. Raju Haldar	
		Group - B	Momental ellipsoid, Equation of motion of a rigid body about a fixed axis	15	Dr. Raju Haldar	
Seventh	Module - XIII	Group - A	Improper Integral	10	Dr. Sumita Das	
		Group - B	Preliminary of Metric spaces	7	Dr. Sumita Das	
		Group - C	Complex Analysis	10	Dr. Sumita Das	
	Module - XIV	Group - A	Probability	40	Smt. Sukti Sen	
		Group - B	NIL		Smt. Sukti Sen	
Eighth Paper	Module – XV	Group - A	Numerical Analysis	30	Dr. Malay Roy	
		Group - B	NIL		Dr. Malay Roy	
	Module - XVI	Practical	Interpolation, Differentiation, Integration, Solution of equations and system of linear equation, Eigen pair of matrices	60	Dr. Malay Roy	
Mid-Term Examination will be held on above syllabus						

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Malay Roy

DR. MALAY ROY
DEPT. OF MATHEMATICS

Head
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Sammilani Mahavidyalaya
Kolkata-94

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for (1+1+1System- 09 Regulations & CBCS)

Academic Session **2019 – 2020 (July-December, 2019)**

(ODD SEM)

B. Sc. 3rd Year MTMG (Part III)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Fourth Paper	Module - VII		Computer Science, Programming language	15	Dr. Malay Roy	Before Mid-Term (July – November)
			Boolean Algebra	4	Sri. Pintu Baidya	
	Module - VIII	Group - A OR	Series & Sequence, Fourier Series,	8	Dr. Raju Haldar	
		Group - B	Integer, Congruence	8	Smt. Sukti Sen	
			Boolean Algebra	4	Sri. Pintu Baidya	
Mid-Term Examination will be held on above syllabus						
Paper	Modules	Group		No. of Lectures	To Be Taken By	Duration
Fourth Paper (50 marks)	Module - VII		Algorithm & Flowchart, Basic Programming	12	Dr. Malay Roy	After Mid-Term (December – January)
	Module - VIII	Group - A OR	Differential Equation, Laplace transform, PDE	20	Dr. Raju Haldar	
		Group - B	Applications of Congruence, Congruence Classes, Recurrence Relation, Boolean Algebra	20	Smt. Sukti Sen	
Test Examination will be held on full Syllabus						

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin

DR. MALAY ROY
DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for (1+1+1System- 09 Regulations & CBCS)

Academic Session **2019 – 2020 (July-December, 2019)**

(ODD SEM)

B. Sc. SEMESTER – III

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-5	**Unit-I**	Limit & Continuity Functions	3	Mrs. Sukti Sen
	Unit-II	Differentiablity of Functions	3	Dr. Malay Ray
CC-6	**Unit- I & II**	Ring Theory & Linear Algebra	6	Dr. Sumita Das
CC7	**Unit – I**	Ordinary Differential Equations	3	Dr. Raju Haldar
	Unit – II	Multivariate Calculas-1	3	Dr. Malay Ray
SEC B	**Option I**	Mathematical logic	2	Mrs. Sukti Sen
	Option II	SageMath	2	Dr. Malay Ray
MTMG				
CC/ GE-3	**Unit - I**	Integral calculus	1	Dr. Raju Haldar
	Unit-II	Numerical Methods	2	Dr. Malay Ray
	UNIT - III	L.P.P.	1+1	Mrs. Sukti Sen + Dr. Raju Haldar

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Malay Roy

DR. MALAY ROY

DEPT. OF MATHEMATICS

Head
Dept of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for (1+1+1System- 09 Regulations & CBCS)

Academic Session **2019 – 2020 (July-December, 2019)**

(ODD SEM)

B. Sc. SEMESTER – I

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-1	**Unit-I & III**	Calculus & Vector Analysis	3	Dr. Raju Haldar
	Unit-II	Geometry	3	Dr. Malay Ray
CC-2	**Unit- I**	Classical Algebra	2+1	Mrs. Sukti Sen + Dr. Raju Haldar
	Unit-II	Abstract Algebra	1+1	Dr. Sumita Das + Mrs. Sukti Sen
	Unit -III	Linear Algebra	1	Dr. Sumita Das
MTMG				
CC/ GE 1	**Unit - I**	Algebra	1	Mrs. Sukti Sen
	Unit-II	Differential Calculus-1	1	Dr. Sumita Das
	UNIT - III	Differential Equation-1	1	Dr. Raju Haldar
	UNIT - IV	Coordinate Geometry	1	Dr. Malay Ray

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Malay Roy

DR. MALAY ROY

DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA
DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR (1+1+1 SYSTEM)
Session **2019-20 (January to June, 2020)**
B. Sc. 3RD YEAR (2ND HALF)
MTMA

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Fifth Paper	Module - IX	Group - A	Integrability of sum, Anti-derivative, Fundamental theorem of Integral calculus, Sequence and series of function	35	Dr. Sumita Das	After Mid-Term (December – January)
	Module - X	Group - A	Section – I LT and associate matrices Section – II Homomorphism of Groups	10	Smt. Sukti Sen	
		Group - B	Tensor Calculus	5	Smt. Sukti Sen	
		Group - C	Differential Equation II (Series solution of ODE)		Dr. Raju Haldar	
		Or Group - C	Planar graphs, Tree	8	Dr. Malay Roy	
Sixth Paper	Module – XI	Group - A	Completed		Dr. Raju Haldar	
		Group - B	Forces in three dimension	12	Dr. Malay Roy	
		Group - C	Dynamics of a Particle II (Varying mass problem, Linear dynamical systems)	10	Dr. Malay Roy	
	Module - XII	Group - A	Rotating fluids, Floating Bodies, Pressure of Gases	15	Dr. Raju Haldar	
		Group - B	Equations of motion of a rigid body, Equations of motion under impulsive forces	15	Dr. Raju Haldar	
Seventh	Module - XIII	Group - A	Fourier Series, Multiple Integral	10	Dr. Sumita Das	
		Group - B	Subspaces of Metric spaces	4	Dr. Sumita Das	
		Group - C	Completed		Dr. Sumita Das	
	Module - XIV	Group - A	Completed		Smt. Sukti Sen	
		Group - B	Statistics	35	Smt. Sukti Sen	
Eighth Paper	Module – XV	Group - A	Completed		Dr. Malay Roy	
		Group - B	Computer Programming	40	Dr. Malay Roy	
	Module - XVI	Practical	Initial value problem, Curve fitting, C programming	60	Dr. Malay Roy	
Test Examination will be held on full Syllabus						

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Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—76

TEACHING PLAN FOR CBCS EVEN SEMESTER

Session **2019-20 (January to June)**

B. Sc. SEMESTER – IV

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures/ week	Name of the Assigned Faculty (Under Mou)
CC-8	**Unit-1,2,3**	Rimann Integration and Series of functions	6	Dr. Sumita Das + Dr. Raju Haldar (SMV)
CC-9	**Unit- 1**	Partial Differential Equations	3	Dr. Raju Haldar (SMV)
	Unit – II	Multivariate Calculus-II	3	Dr. Malay Ray
CC10	**Unit – 1.2**	Mechanics(First Part)	2	Dr. Raju Haldar (SMV)
	Unit- 3,4,5	Mechanics(2nd Part)	4	Dr. Malay Ray
SEC B		Sage Math	2	Dr. Malay Ray

MTMG

CC/ GE-4	**Unit - 1**	Algebra II	2	Dr. Sumita Das
	Unit-2	Computer Science and Programming	2	Dr. Malay Ray (SMV)
	UNIT - 3	Probability & Statistics	2	Mrs. Sukti Sen (SMV)

NB:

SMV : Sammilani Mahavidyalaya

KKDC: K. K. Das College

SUMITA DAS
DEPT. OF MATHEMATICS
ATTESTED

Malay Roy
Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

SAMMILANI MAHAVIDYALAYA
DEPARTMENT OF MATHEMATICS
TEACHING PLAN FOR CBCS EVEN SEMESTER
Session **2019-20 (January to June)**

B. Sc. SEMESTER – II
MTMA

Paper	Unit	Unit/Chapters	No. of Lectures / week	Name of the Assigned Faculty (Under Mou)
CC-3	**Unit- 1,2,3**	Theory of Real Functions	3 +3	Mrs. Sukti Sen + Dr. Malay Ray
CC-4	**Unit- 1,3**	Group Theory I	2+ 4	Dr. Sumita Das + Dr. Malay Ray
		MTMG		
CC/ GE 2	**Unit - 1**	Differential Calculus-II	2	Dr. Sumita Das
	UNIT – 2,3	Differential Equation-II Vector Algebra	1+1	Dr. Raju Haldar + Dr. Malay Ray
	UNIT - 4	Discrete Mathematics	2	Mrs. Sukti Sen

ATTESTED

Principal
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SUMITA DAS
DEPT. OF MATHEMATICS

Malay Roy
Head
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Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for the Session **2018 – 2019 (July – December, 2018) (ODD SEM)**

B. Sc. 3rd Year MTMA (Part III)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Fifth Paper	Module - IX	Group - A	Compactness in R, Function of BV, Partition & Refinement, Continuous function are Riemann integrable function	21	Dr. Sumita Das	Before Mid-Term (July – November)
	Module - X	Group - A	Section – I LT on vector Section – II Normal Sub-group	10	Smt. Sukti Sen	
		Group - B	Tensor Calculus	5	Smt. Sukti Sen	
		Group - C	Differential Equation II (Laplace Transformation)	5	Dr. Raju Haldar	
		Or Group - C	Graphs and Euler graphs	10	Dr. Malay Roy	
Sixth Paper	Module – XI	Group - A	Vector Calculus II	8	Dr. Raju Haldar	
		Group - B	Analytical Statics II(Centre of Gravity, Virtual work, Stable and unstable equilibrium)	17	Dr. Malay Roy	
		Group - C	Dynamics of a Particle II (Central Orbits, Planetary motion, motion of particle through curves)	10	Dr. Malay Roy	
	Module - XII	Group - A	Characteristics of fluid, Centre of pressure, Equilibrium of fluids	15	Dr. Raju Haldar	
		Group - B	Momentum ellipsoid, Equation of motion of a rigid body about a fixed axis	15	Dr. Raju Haldar	
Seventh	Module - XIII	Group - A	Improper Integral	10	Dr. Sumita Das	
		Group - B	Preliminary of Metric spaces	7	Dr. Sumita Das	
		Group - C	Complex Analysis	10	Dr. Sumita Das	
	Module - XIV	Group - A	Probability	40	Smt. Sukti Sen	
		Group - B	Statistics	35	Smt. Sukti Sen	
Eighth Paper	Module – XV	Group - A	Numerical Analysis	30	Dr. Malay Roy	
		Group - B	Computer programming	30	Dr. Malay Roy	
	Module - XVI	Practical	Interpolation, Differentiation, Integration, Solution of equations and system of linear equation, Eigen pair of matrices	30	Dr. Malay Roy	

Mid-Term Examination will be held on above syllabus

See Next Page

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
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DR. SUMITA DAS
DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
Sammilani Mahavidyalaya
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SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for the Session **2018 – 2019 (July – December, 2018) (ODD SEM)**

B. Sc. 3rd Year MTMG (Part III)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Fourth Paper	Module - VII		Computer Science, Programming language	15	Dr. Malay Roy	Before Mid-Term (July – November)
			Boolean Algebra	4	Sri. Pintu Baidya	
	Module - VIII	Group - A OR	Series & Sequence, Fourier Series,	8	Dr. Raju Haldar	
		Group - B	Integer, Congruence	8	Smt. Sukti Sen	
			Boolean Algebra	4	Sri. Pintu Baidya	
Mid-Term Examination will be held on above syllabus						
Paper	Modules	Group		No. of Lectures	To Be Taken By	Duration
Fourth Paper (50 marks)	Module - VII		Algorithm & Flowchart, Basic Programming	12	Dr. Malay Roy	After Mid-Term (December – January)
	Module - VIII	Group - A OR	Differential Equation, Laplace transform, PDE	20	Dr. Raju Haldar	
		Group - B	Applications of Congruence, Congruence Classes, Recurrence Relation, Boolean Algebra	20	Smt. Sukti Sen	
Test Examination will be held on full Syllabus						

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Principal
Sammilani Mahavidyalaya
E.M.Bypass, Baghajatin
Kolkata - 700 094

DR. SUMITA DAS
DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
Sammilani Mahavidyalaya
Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for the Session **2018 – 2019 (July – December, 2018) (ODD SEM)**

B. Sc. 2nd Year MTMA (Part - II)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Third Paper	Module - V	Group - A	Modern Algebra - II	20	Dr. Sumita Das	Before Mid-Term (July – November)
		Group - B	Definition of LPP, Hyperplane & Convex Set, FS & BFS	14	Smt. Sukti Sen	
	Module - VI	Group - A	Infinite Series of real numbers	8	Dr. Raju Haldar	
		Group - B	Significance of ODE, First order ODE, Clairaut's form, Orthogonal trajectories, Higher order ODE with constant co-efficienttts	22	Dr. Raju Haldar	
Fourth Paper	Module – VII	Group - A	Point set in 2D & 3D, Functions on R^n, Functions in 2 or 3 variables, Differentiability	16	Dr. Sumita Das	
		Group - B	Tangent & Normal, Asymptotes, Curvature, Envelop	12	Dr. Raju Haldar Dr. Malay Roy	
	Module - VIII	Group - A	3D Geometry - II	30	Dr. Malay Roy	
		Group - B	Statics – I (Fricrion)	4	Dr. Malay Roy	
		Group - C	Dynamics of Particle – I (Newton's Law, KE, Motion in straight line, SHM, Damped forced oscillator, Motion under gravity)	12	Dr. Malay Roy	
Mid-Term Examination will be held on above syllabus						
Paper	**Modules**	**Group**	**Unit/Chapters**	**No. of Lectures**	**To Be Taken By**	**Duration**
Third Paper	Module - V	Group - A	Completed		Dr. Sumita Das	After Mid-Term (December – February)
		Group - B	Slack and surplus variable, two-phase method, Duality theorem, Transportation & Assignment problem, Game theory	36	Smt. Sukti Sen	
	Module - VI	Group - A	Derivatives of real-valued function	17	Dr. Raju Haldar	
		Group - B	Second order linear equation, eigenvalue problems, Simultaneous linear DE, PDE	10	Dr. Raju Haldar	
Fourth Paper	Module – VII	Group - A	Jacobian of two and three variables, Taylor's theorem for functions of two variable	11	Dr. Sumita Das	
		Group - B	Concavity & Convexity, Different curves, Area enclosed by a curve	9	Dr. Raju Haldar Dr. Malay Roy	
	Module - VIII	Group - A	Completed		Dr. Malay Roy	
		Group - B	Statics – I (Astatic Equilibrium)	4	Dr. Malay Roy	
		Group - C	Dynamics of Particle – I (Impact of elastic bodies, Tangent and Normal acceleration, Motion under different laws of resistance, Trajectories)	13	Dr. Malay Roy	
Test Examination will be held on full Syllabus						

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E.M.Bypass, Baghajatin
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DR. SUMITA DAS
DEPT. OF MATHEMATICS

Head
Dept. of Mathematics
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Kolkata—75

SAMMILANI MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Teaching Plan for the Session **2018 – 2019 (July – December, 2018) (ODD SEM)**

B. Sc. 2nd Year MTMG (Part II)

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Second Paper	Module – III	Group - A	Set & Mapping, Introduction to Group theory, Definitions of Ring, Field	10	Dr. Sumita Das	Before Mid-Term (July – November)
		Group - B	3D Geometry	16	Dr. Malay Roy	
	Module - IV	Group - A	Mean Value Theorem, Indeterminate forms	8	Dr. Raju Haldar	
		Group - B	Reduction Formula, Improper Integrals	8	Dr. Raju Haldar	
		Group - C	Second order linear equation	6	Dr. Raju Haldar	
Third Paper	Module - V	Group - A	Numerical Methods	10	Sri. Pintu Baidya	
		Group - B	Up to BFS	8	Sri. Pintu Baidya	
	Module - VI	Group - A	Velocity& Acceleration, Concept of Force	6	Dr. Raju Haldar	
		Or Group - B	Elements of probability theory, Elements of statistical methods	10	Smt. Sukti Sen	

Mid-Term Examination will be held on above syllabus

Paper	Modules	Group	Unit/Chapters	No. of Lectures	To Be Taken By	Duration
Second Paper	Module – III	Group - A	Vector Space over a Field, Real Quadratic forms, Characteristics equation of Matrices	10	Dr. Sumita Das	After Mid-Term (December – February)
		Group - B	Completed		Dr. Malay Roy	
	Module - IV	Group - A	Functions of 2 or 3 variables	10	Dr. Raju Haldar	
		Group - B	Double Integral, Volum, Surface, Area	10	Dr. Raju Haldar	
		Group - C	Completed		Dr. Raju Haldar	
Third Paper	Module - V	Group - A	Completed		Sri. Pintu Baidya	
		Group - B	Simplex Method, Duality, Transportation & Assignment problem	10	Sri. Pintu Baidya	
	Module - VI	Group - A OR	SHM, Motion in two dimension, Central Orbit	12	Dr. Raju Haldar	
		Group - B	Sampling Theory, Bivariate Frequency Distribution, Time Series, Index Number	20	Smt. Sukti Sen	

Test Examination will be held on full Syllabus

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DEPARTMENT OF MATHEMATICS

Teaching Plan for the Session **2018 – 2019 (July – December, 2018) (ODD SEM)**

TEACHING PLAN for CBCS - **ODD SEMESTER**

B. Sc. SEMESTER – I

MTMA				
Paper	**Unit**	**Unit/Chapters**	**No. of Lectures/ week**	**To Be Taken By**
CC-1	**Unit-I & III**	Calculus & Vector Analysis	3	Dr, Sumita Das+ Dr. Raju Haldar
	Unit-II	Geometry	3	Dr. Malay Ray
CC-2	**Unit- I**	Classical Algebra	2+1	Mrs. Sukti Sen + Dr. Raju Haldar
	Unit-II	Abstract Algebra	1+1	Dr. Sumita Das + Mrs. Sukti Sen
	Unit -III	Linear Algebra	1	Dr. Sumita Das
MTMG				
CC/ GE 1	**Unit - I**	Algebra	1	Mrs. Sukti Sen
	Unit-II	Differential Calculus-1	1	Dr. Sumita Das
	UNIT - III	Differential Equation-1	1	Dr. Raju Haldar
	UNIT - IV	Coordinate Geometry	1	Dr. Malay Ray

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Teaching Plan for the Session **2018 – 2019 (January – June, 2018) (EVEN SEM)**

B. Sc. SEMESTER – II

MTMA

Paper	Unit	Unit/Chapters	No. of Lectures / week	Name of the Assigned Faculty (Under Mou)
CC-3	**Unit- 1,2,3**	Theory of Real Functions	3 +3	Mrs. Sukti Sen + Dr. Malay Ray
CC-4	**Unit- 1,3**	Group Theory I	2+ 4	Dr. Sumita Das + Dr. Malay Ray

MTMG

CC/ GE 2	**Unit - 1**	Differential Calculus-II	2	Dr. Sumita Das
	UNIT – 2,3	Differential Equation-II Vector Algebra	1+1	Dr. Raju Haldar + Dr. Malay Ray
	UNIT - 4	Discrete Mathematics	2	Mrs. Sukti Sen

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SUMITA DAS
DEPT. OF MATHEMATICS

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DEPARTMENT OF MATHEMATICS

Class Distribution for Odd Semester (2018-19)

Faculty	1st sem.			2nd year		3rd year		
	Honours (CC1)	Honours (CC2)	General	Honours	General	Honours	General	Total
Dr. Sumita Das	1	2	2	2	2	5	0	14
Dr. Malay Roy	2		2	3	2	5	2	16
Smt. Sukti Sen		4		3	2	5	1	15
Dr. Raju Haldar	2		1	3	3	4	2	15
Mr. Pintu Baidya	1		1	1	1	5	1	10
Total	06	06	06	12	10	24	06	70

Sumita Das

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Class Distribution for Even Semester (2018-19)

Faculty	1st sem.			2nd year		3rd year		
	Honours (CC3)	Honours (CC4)	General	Honours	General	Honours	General	Total
Dr. Sumita Das	1	2	2	2	2	5	0	14
Dr. Malay Roy	2		2	3	2	5	2	16
Smt. Sukti Sen		4		3	2	5	1	15
Dr. Raju Haldar	2		1	3	3	4	2	15
Mr. Pintu Baidya	1		1	1	1	5	1	10
Total	06	06	06	12	10	24	06	70

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DEPARTMENT OF MATHEMATICS

Class Distribution for Odd Semester (2019-20)

Faculty	1st sem.			3rd sem.		3rd year		
	Honours (CC1)	Honours (CC2)	General	Honours	General	Honours	General	Total
Dr. Sumita Das	2	2	2	3		7	1	17
Dr. Malay Roy	2		2	3	2	6	2	17
Smt. Sukti Sen		4	1	3	2	6	1	17
Dr. Raju Haldar	2		1	3	2	5	2	15
Total	06	06	06	12	06	24	06	66

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Class Distribution for Even Semester (2019-20)

Faculty	2nd sem.			4th sem.		3rd year		
	Honours (CC3)	Honours (CC4)	General	Honours	General	Honours	General	Total
Dr. Sumita Das	2	2	2	3		7	1	17
Dr. Malay Roy	2		2	3	2	6	2	17
Smt. Sukti Sen		4	1	3	2	6	1	17
Dr. Raju Haldar	2		1	3	2	5	2	15
Total	06	06	06	12	06	24	06	66

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DEPARTMENT OF MATHEMATICS
Class Distribution for Odd Semester (2020-21)

Year	1st SEM		3rd SEM		5th SEM		
	H	G	H	G	H	G	Total
SD (SMV)	2	1	6	0	9	0	18
MR (SMV)	3	1	8	2			14
SS (SMV)	3	1	3	1	6	0	14
RH (SMV)	4	1	3	2	2	2	14
NM (KKDC)					2	2	4
ARC (KKDC)					2		2
Total	12	4	20	5	21	4	66

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD) MR- Dr. Malay Roy SS- Ms. Sukti Sen RH- Mr. Raju Haldar	NM- Dr. Nasima Munshi, (HoD) ARC- Ms. Anupama Roy Chowdhury

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SAMMILANI MAHAVIDYALAYA
DEPARTMENT OF MATHEMATICS
Class Distribution for Even Semester (2020-21)

Year	2nd SEM		4th SEM		6th SEM		
	H	G	H	G	H	G	Total
SD (SMV)	6	0	0	0	9	0	15
MR (SMV)	0		6	2	8		16
SS (SMV)	6	2	4	2		0	14
RH (SMV)		1	7		6		14
NM (KKDC)					6		6
ARC (KKDC)		1			3	6	10
MBS(KKDC)		1	3	1			5
Total	12	5	20	5	32	6	80

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD)	NM- Dr. Nasima Munshi, (HoD)
MR- Dr. Malay Roy	ARC- Ms. Anupama Roy Chowdhury
SS- Ms. Sukti Sen	MBS- Dr. Mohan Bir Subba
RH- Mr. Raju Haldar	

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Online Class Distribution for Odd Semester (2021-22)

Year	1st SEM		3rd SEM		5th SEM		
	H	G	H	G	H	G	Total
SD (SMV)	1	0	6		9		16
MR (SMV)	3	1	5	2			11
SS (SMV)	2	1	3	1	6		10
RH (SMV)	1	1	3	2	2	2	11
NM (KKDC)		1			2	2	5
ARC (KKDC)	3	1			2		6
MBS (KKDC)	2		3		3		8
Total	12	4	20	5	24	4	69

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD)	NM- Dr. Nasima Munshi, (HoD)
MR- Dr. Malay Roy	ARC- Ms. Anupama Roy Chowdhury
SS- Ms. Sukti Sen	MBS- Dr. Mohan Bir Subba
RH- Mr. Raju Haldar	

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DEPARTMENT OF MATHEMATICS
Class Distribution for Even Semester (2021-22)

Year	2nd SEM		4th SEM		6th SEM		
	H	G	H	G	H	G	Total
SD (SMV)	6	2		1	6		15
MR (SMV)		1	8	2	8		19
SS (SMV)	5	2	3	3			13
RH (SMV)	1	1	6		2		10
RPC (KKDC)					3		3
NM (KKDC)			3		4		7
ARC (KKDC)					3	6	9
MBS(KKDC)							
Total	12	6	20	6	26	6	76

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD) MR- Dr. Malay Roy SS- Ms. Sukti Sen RH- Mr. Raju Haldar	RPC-Dr. Ramkrishna Prasad Chakraborty (Principal) NM- Dr. Nasima Munshi, (HoD) ARC- Ms. Anupama Roy Chowdhury MBS- Dr. Mohan Bir Subba

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Class Distribution for Odd Semester (2022-23)

Year	1st SEM		3rd SEM		5th SEM		
	H	G	H	G	H	G	Total
SD (SMV)	2	1	6	0	6	0	15
MR (SMV)	3	1	8	2			14
SS (SMV)	3	1	3	1	6	0	14
RH (SMV)	4	1	3	2	2	2	14
RPC (KKDC)					2		2
NM (KKDC)					2		2
MBS (KKDC)					3		3
ARC (KKDC)					4	2	6
Total	12	4	20	5	25	4	70

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD) MR- Dr. Malay Roy SS- Ms. Sukti Sen RH- Mr. Raju Haldar	RPC-Dr. Ramkrishna Prasad Chakraborty (Principal) NM- Dr. Nasima Munshi, (HoD) ARC- Ms. Anupama Roy Chowdhury MBS- Dr. Mohan Bir Subba

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DEPARTMENT OF MATHEMATICS
Class Distribution for Even Semester (2022-23)

SEM	2nd		4th		6th		
	H	G	H+SEC	G	H	G+SEC	Total
SD(SMV)	6	0	0	0	9	0+1	16
MR(SMV)	0	1	4+2	2	7	0	16
SS(SMV)	6	1	6	2	0	0	15
RH(SMV)	0	2	5+0	0	2	4+1	14
NM(KKDC)	0	0	0	0	0	4	4
ARC(KKDC)	0	0	0	0	0	3	3
MBS(KKDC)	0	0	3	0	0	4	7
Total	12	04	20	04	18	17	75

Department of Mathematics, Sammilani Mahavidyalaya	Department of Mathematics, K. K. Das College
SD- Dr. Sumita Das, (HoD) MR- Dr. Malay Roy SS- Ms. Sukti Sen RH- Mr. Raju Haldar	RPC-Dr. Ramkrishna Prasad Chakraborty (Principal) NM- Dr. Nasima Munshi, (HoD) ARC- Ms. Anupama Roy Chowdhury MBS- Dr. Mohan Bir Subba

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LESSON PLAN OF MICROBIOLOGY HONOURS(UNDERCBCS) (2022-23)

Sem	Course	Credits	Topics	Assigned Teacher	No.of Classes
I	CC-1: Introduction to Microbiology and Microbial Diversity	4	• Unit 1 History of Development of Microbiology	AC	15
			• Unit 2 Diversity of Microbial World A. Systems of classification	AC	5
			B. General characteristics Algae	SC	5
			Fungi		5
			Protozoa	MS	5
			• Unit 3 An overview of Scope of Microbiology	PD	5
				SC	
	CC-1: INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY (PRACTICAL)	2		SC	60

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	CC-2: Bacteriology	4	• Unit 1 Cell organization • Unit 2 Bacteriological techniques • Unit 3 Microscopy • Unit 4 Growth and nutrition • Unit 5 Reproduction in Bacteria • Unit 6 Bacterial Systematics • Unit 7 Important archaeal and eubacterial groups • Archaebacteria • Eubacteria	PD AC MS MS PD+AC	10 5 5 8 3 8 10
	CC-2: BACTERIOLOGY (PRACTICAL)	2		PD	60
II	CC-3: Biochemistry	4	• Unit 1 Bioenergetics • Unit 2 Carbohydrates • Unit 3 Lipids • Unit 4 Proteins • Unit 5. Enzymes • Unit 6. Vitamins	SP PD AC PD SC AC	6 10 10 10 10 4
	CC-3: BIOCHEMISTRY (PRACTICALS)	2		PD	60

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	CC-4: Cell Biology	4	• Unit 1 Structure and organization of Cell • Unit 2 Nucleus • Unit 3 Protein Sorting and Transport • Unit 4 Cell Signalling • Unit 5 Cell Cycle, Cell Death and Cell Renewal	MS AC AC PD SC	12 4 12 10 12
	CC-4: CELL BIOLOGY (PRACTICAL)	2		AC	60
III	CC-5: Virology	4	• Unit 1 Nature and Properties of Viruses • Unit 2 Bacteriophages • Unit 3 Viral Transmission, Salient features of viral nucleic acids and Replication • Unit 4 Viruses and Cancer • Unit 5 Prevention & control of viral diseases • Unit 6 Applications of Virology	PD MS SC AC MS AC	10 10 14 6 6 4
	CC-5: VIROLOGY (PRACTICAL)	2		MS	60

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	C-6: Microbial Physiology and Metabolism	4	• Unit 1 Microbial Growth and Effect of Environment on Microbial Growth • Unit 2 Nutrient uptake and Transport • Unit 3 Chemoheterotrophic Metabolism - Aerobic Respiration • Unit 4 Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation • Unit 5 Chemolithotrophic and Phototrophic Metabolism • Unit 6 Nitrogen Metabolism - an overview	MS MS PD PD MS AC	10 8 10 6 10 6
	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM (PRACTICAL)	2		AC	60
	CC-7: Molecular Biology	4	• Unit 1 Structures of DNA and RNA / Genetic Material • Unit 2 Replication of DNA (Prokaryotes and Eukaryotes) • Unit 3 Transcription in Prokaryotes and Eukaryotes • Unit 4 Post-Transcriptional Processing • Unit 5 Translation (Prokaryotes and Eukaryotes) • Unit 6 Regulation of gene Expression in Prokaryotes and Eukaryotes	SC AC SC PD AC SC	10 8 8 6 8 10
	CC-7: MOLECULAR BIOLOGY (PRACTICAL	2		SC	60

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	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	2	• Unit 1 Microbiological Laboratory and Safe Practices • Unit 2 Determining Microbes in Food / Pharmaceutical Samples • Unit 3 Pathogenic Microorganisms of Importance in Food & Water • Unit 4 HACCP for Food Safety and Microbial Standards	SC MS AC PD	8 10 8 4
IV	CC-8: Microbial Genetics	4	• Unit 1 Genome Organization and Mutations • Unit 2 Plasmids • Unit 3 Mechanisms of Genetic Exchange • Unit 4 Phage Genetics • Unit 5 Transposable elements	SC SC PD PD SC+PD	14 8 10 8 10
	CC-8: MICROBIAL GENETICS (PRACTICAL)	2	•	SC	60
	CC-9: Environmental Microbiology	4	• Unit 1 Microorganisms and their Habitats • Unit 2 Microbial Interactions • Unit 3 Biogeochemical Cycling • Unit 4 Waste Management • Unit 5 Microbial Bioremediation • Unit 6 Water Potability	AC MS AC MS MS AC	10 10 10 10 5 5
	CC-9: ENVIRONMENTAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	CC-10: Recombinant DNA Technology	4	• Unit 1 Introduction to Genetic Engineering • Unit 2 Molecular Cloning- Tools and Strategies • Unit 3 Methods in Molecular Cloning • Unit4 DNA Amplification and DNA sequencing • Unit 5 Construction and Screening of Genomic and cDNA libraries	SC SC PD AC AC	2 15 12 9 6

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			• Unit 6 Applications of Recombinant DNA Technology	SC	6
	CC-10: RECOMBINANT DNA TECHNOLOGY (PRACTICAL	2		SC	60
	SEC-B B2. Microbiological Analysis of Air and Water	2	• Unit 1 Aeromicrobiolog • Unit 2 Air Sample Collection and Analysis • Unit 3 Control Measures • Unit 4 Water Microbiology • Unit 5 Microbiological Analysis of Water • Unit 6 Control Measures	MS MS MS AC AC AC	4 7 4 4 7 4
V	CC-11: Food and Dairy Microbiology	4	• Unit 1 Foods as a substrate for microorganisms • Unit 2 Microbial spoilage of various foods • Unit 3 Principles and methods of food preservation • Unit 4 Fermented foods • Unit 5 Food borne diseases (causative agents, foods involved, symptoms and preventive measures) • Unit 6 Food sanitation and control • Unit 7 Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive microbiology	MS AC PD SC MS PD SC	6 8 8 8 10 5 5
	C-11: FOOD AND DAIRY MICROBIOLOGY (PRACTICAL	2		AC	60

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	CC-12: Industrial Microbiology	4	• Unit 1 Introduction to industrial microbiology	MS	2
			• Unit 2 Isolation of industrially important microbial strains and fermentation media	MS	10
			• Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters	MS	12
			• Unit 4 Down-stream processing	AC	6
			• Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses)	MS	18
			• Unit 6 Enzyme immobilization	PD	4
	CC-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL)	2		MS	60
	DSE-A A1. Microbial Biotechnology	4	• Unit 1 Microbial Biotechnology and its Application	MS	8
			• Unit 2 Therapeutic and Industrial Biotechnology	SC	8
			• Unit 3 Applications of Microbes in Biotransformations	PD	6
			• Unit 4 Microbial Products and their Recovery	AC	8
			• Unit 5 Microbes for Bio-energy and Environment	AC	10
			• Unit 6 RNAi	PD	6
			• Unit 7 Intellectual Property Rights	SC	4
	DSE-A: 1. MICROBIAL BIOTECHNOLOGY (PRACTICAL)	2		PD	60

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	DSE-B B1. Inheritance Biology	4	• Unit 1 Introduction to Genetics • Unit 2 Mendelian Principles • Unit 3 Linkage and Crossing over • Unit 4 Extra-Chromosomal Inheritance • Unit 5 Characteristics of Chromosomes • Unit 6 Recombination	PD+SC	5 8 6 7 15 3
	DSE-B: 1. INHERITANCE BIOLOGY (PRACTICAL)	2		SC	60
VI	CC-13: Immunology	4	• Unit 1 Introduction • Unit 2 Immune Cells and Organs • Unit 3 Antigens • Unit 4 Antibodies • Unit 5 Major Histocompatibility Complex • Unit 6 Complement System • Unit 7 Generation of Immune Response • Unit 8 Immunological Disorders and Tumor Immunity • Unit 9 Immunological Techniques	PD+SC	2 6 4 6 4 2 8 8 10
	CC-13: IMMUNOLOGY (PRACTICAL)	2		PD	60
	CC-14: Medical Microbiology	4	• Unit 1 Normal microflora of the human body and host pathogen interaction • Unit 2 Sample collection, transport and diagnosis • Unit 3 Bacterial diseases • Unit 4 Viral diseases • Unit 5 Protozoan diseases • Unit 6 Fungal diseases • Unit 7 Antimicrobial agents: General characteristics and mode of action	MS MS AC MS AC MS AC	7 5 10 10 5 5 8
	CC-14: MEDICAL MICROBIOLOGY (PRACTICAL)	2		AC	60

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	DSE-A A3. Plant Pathology	4	• Unit 1 Introduction and History of plant pathology • Unit 2 Stages in development of a disease • Unit 3 Plant disease epidemiology • Unit 4 Host Pathogen Interaction • Unit 5 Control of Plant Diseases • Unit 6 Specific Plant diseases	MS AC AC AC MS MS	5 2 5 15 8 15
	DSE-A: 3.PLANT PATHOLOGY (PRACTICAL)	2		MS	60
	DSE-B B3. Instrumentation and Biotechniques	4	• Unit 1 Microscopy • Unit 2 Chromatography • Unit 3 Electrophoresis • Unit 4 Spectrophotometry • Unit 5 Centrifugation	AC PD SC SC SC	10 10 10 10 10
	DSE-B: 3. INSTRUMENTATION AND BIOTECHNIQUES (PRACTICAL)	2		PD	60

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MICROBIOLOGY

LESSON PLAN OF MICROBIOLOGY HONOURS(UNDERCBCS) (2021-22)

Sem	Course	Credits	Topics	Assigned Teacher	No.of Classes
I	CC-1: Introduction to Microbiology and Microbial Diversity	4	• Unit 1 History of Development of Microbiology	AC	15
			• Unit 2 Diversity of Microbial World		
			A. Systems of classification	AC	5
			B. General characteristics		
			Algae	SC	5
			Fungi		5
			Protozoa	MS	
			• Unit 3 An overview of Scope of Microbiology	PD	5
				SC	5
	CC-1: INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY (PRACTICAL)	2		SC	60
	CC-2: Bacteriology	4	• Unit 1 Cell organization	PD	10
			• Unit 2 Bacteriological techniques	AC	5
			• Unit 3 Microscopy		5
			• Unit 4 Growth and nutrition	MS	8
			• Unit 5 Reproduction in Bacteria		3
			• Unit 6 Bacterial Systematics	MS	8
			• Unit 7 Important archaeal and eubacterial groups		10

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			• Archaebacteria • Eubacteria	PD+AC	
	CC-2: BACTERIOLOGY (PRACTICAL)	2		PD	60
II	CC-3: Biochemistry	4	• Unit 1 Bioenergetics • Unit 2 Carbohydrates • Unit 3 Lipids • Unit 4 Proteins • Unit 5. Enzymes • Unit 6. Vitamins	SP PD AC PD SC AC	6 10 10 10 10 4
	CC-3: BIOCHEMISTRY (PRACTICALS)	2		PD	60
	CC-4: Cell Biology	4	• Unit 1 Structure and organization of Cell • Unit 2 Nucleus • Unit 3 Protein Sorting and Transport • Unit 4 Cell Signalling • Unit 5 Cell Cycle, Cell Death and Cell Renewal	MS AC AC PD SC	12 4 12 10 12
	CC-4: CELL BIOLOGY (PRACTICAL)	2		AC	60

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III	CC-5: Virology	4	• Unit 1 Nature and Properties of Viruses • Unit 2 Bacteriophages • Unit 3 Viral Transmission, Salient features of viral nucleic acids and Replication • Unit 4 Viruses and Cancer • Unit 5 Prevention & control of viral diseases • Unit 6 Applications of Virology	PD MS SC AC MS AC	10 10 14 6 6 4
	CC-5: VIROLOGY (PRACTICAL)	2		MS	60
	C-6: Microbial Physiology and Metabolism	4	• Unit 1 Microbial Growth and Effect of Environment on Microbial Growth • Unit 2 Nutrient uptake and Transport • Unit 3 Chemoheterotrophic Metabolism - Aerobic Respiration • Unit 4 Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation • Unit 5 Chemolithotrophic and Phototrophic Metabolism • Unit 6 Nitrogen Metabolism - an overview	MS MS PD PD MS AC	10 8 10 6 10 6
	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM (PRACTICAL)	2		AC	60
	CC-7: Molecular Biology	4	• Unit 1 Structures of DNA and RNA / Genetic Material • Unit 2 Replication of DNA (Prokaryotes and Eukaryotes)	SC AC	10 8

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			• Unit 3 Transcription in Prokaryotes and Eukaryotes • Unit 4 Post-Transcriptional Processing • Unit 5 Translation (Prokaryotes and Eukaryotes) • Unit 6 Regulation of gene Expression in Prokaryotes and Eukaryotes	SC PD AC SC	8 6 8 10
	CC-7: MOLECULAR BIOLOGY (PRACTICAL	2		SC	60
	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	2	• Unit 1 Microbiological Laboratory and Safe Practices • Unit 2 Determining Microbes in Food / Pharmaceutical Samples • Unit 3 Pathogenic Microorganisms of Importance in Food & Water • Unit 4 HACCP for Food Safety and Microbial Standards	SC MS AC PD	8 10 8 4
IV	CC-8: Microbial Genetics	4	• Unit 1 Genome Organization and Mutations • Unit 2 Plasmids • Unit 3 Mechanisms of Genetic Exchange • Unit 4 Phage Genetics • Unit 5 Transposable elements	SC SC PD PD SC+PD	14 8 10 8 10
	CC-8: MICROBIAL GENETICS (PRACTICAL)	2	•	SC	60
	CC-9: Environmental Microbiology	4	• Unit 1 Microorganisms and their Habitats • Unit 2 Microbial Interactions • Unit 3 Biogeochemical Cycling • Unit 4 Waste Management • Unit 5 Microbial Bioremediation • Unit 6 Water Potability	AC MS AC MS MS AC	10 10 10 10 5 5
	CC-9: ENVIRONMENTAL MICROBIOLOGY	2		AC	60

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	(PRACTICAL)				
	CC-10: Recombinant DNA Technology	4	• Unit 1 Introduction to Genetic Engineering • Unit 2 Molecular Cloning- Tools and Strategies • Unit 3 Methods in Molecular Cloning • Unit4 DNA Amplification and DNA sequencing • Unit 5 Construction and Screening of Genomic and cDNA libraries • Unit 6 Applications of Recombinant DNA Technology	SC SC PD AC AC SC	2 15 12 9 6 6
	CC-10: RECOMBINANT DNA TECHNOLOGY (PRACTICAL	2		SC	60
	SEC-B B2. Microbiological Analysis of Air and Water	2	• Unit 1 Aeromicrobiolog • Unit 2 Air Sample Collection and Analysis • Unit 3 Control Measures • Unit 4 Water Microbiology • Unit 5 Microbiological Analysis of Water • Unit 6 Control Measures	MS MS MS AC AC AC	4 7 4 4 7 4
V	CC-11: Food and Dairy Microbiology	4	• Unit 1 Foods as a substrate for microorganisms • Unit 2 Microbial spoilage of various foods • Unit 3 Principles and methods of food preservation • Unit 4 Fermented foods • Unit 5 Food borne diseases (causative agents, foods involved, symptoms and preventive measures) • Unit 6 Food sanitation and control • Unit 7 Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive	MS AC PD SC MS PD SC	6 8 8 8 10 5 5

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			microbiology		
	C-11: FOOD AND DAIRY MICROBIOLOGY (PRACTICAL	2		AC	60
	CC-12: Industrial Microbiology	4	• Unit 1 Introduction to industrial microbiology • Unit 2 Isolation of industrially important microbial strains and fermentation media • Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters • Unit 4 Down-stream processing • Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses) • Unit 6 Enzyme immobilization	MS MS MS AC MS PD	2 10 12 6 18 4
	CC-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL)	2		MS	60
	DSE-A A1. Microbial Biotechnology	4	• Unit 1 Microbial Biotechnology and its Application • Unit 2 Therapeutic and Industrial Biotechnology • Unit 3 Applications of Microbes in Biotransformations • Unit 4 Microbial Products and their Recovery • Unit 5 Microbes for Bio-energy and Environment • Unit 6 RNAi • Unit 7 Intellectual Property Rights	MS SC PD AC AC PD SC	8 8 6 8 10 6 4

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	DSE-A: 1. MICROBIAL BIOTECHNOLOGY (PRACTICAL)	2		PD	60
	DSE-B B1. Inheritance Biology	4	• Unit 1 Introduction to Genetics • Unit 2 Mendelian Principles • Unit 3 Linkage and Crossing over • Unit 4 Extra-Chromosomal Inheritance • Unit 5 Characteristics of Chromosomes • Unit 6 Recombination	PD+SC	5 8 6 7 15 3
	DSE-B: 1. INHERITANCE BIOLOGY (PRACTICAL)	2		SC	60
VI	CC-13: Immunology	4	• Unit 1 Introduction • Unit 2 Immune Cells and Organs • Unit 3 Antigens • Unit 4 Antibodies • Unit 5 Major Histocompatibility Complex • Unit 6 Complement System • Unit 7 Generation of Immune Response • Unit 8 Immunological Disorders and Tumor Immunity • Unit 9 Immunological Techniques	PD+SC	2 6 4 6 4 2 8 8 10
	CC-13: IMMUNOLOGY (PRACTICAL)	2		PD	60
	CC-14: Medical Microbiology	4	• Unit 1 Normal microflora of the human body and host pathogen interaction • Unit 2 Sample collection, transport and diagnosis • Unit 3 Bacterial diseases • Unit 4 Viral diseases • Unit 5 Protozoan diseases • Unit 6 Fungal diseases • Unit 7 Antimicrobial agents: General characteristics and mode of action	MS MS AC MS AC MS AC	7 5 10 10 5 5 8

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	CC-14: MEDICAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	DSE-A A3. Plant Pathology	4	• Unit 1 Introduction and History of plant pathology • Unit 2 Stages in development of a disease • Unit 3 Plant disease epidemiology • Unit 4 Host Pathogen Interaction • Unit 5 Control of Plant Diseases • Unit 6 Specific Plant diseases	MS AC AC AC MS MS	5 2 5 15 8 15
	DSE-A: 3.PLANT PATHOLOGY (PRACTICAL)	2		MS	60
	DSE-B B3. Instrumentation and Biotechniques	4	• Unit 1 Microscopy • Unit 2 Chromatography • Unit 3 Electrophoresis • Unit 4 Spectrophotometry • Unit 5 Centrifugation	AC PD SC SC SC	10 10 10 10 10
	DSE-B: 3. INSTRUMENTATION AND BIOTECHNIQUES (PRACTICAL)	2		PD	60

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MICROBIOLOGY

LESSON PLAN OF MICROBIOLOGY HONOURS(UNDERCBCS) (2020-21)

Sem	Course	Credits	Topics	Assigned Teacher	No.of Classes
I	CC-1: Introduction to Microbiology and Microbial Diversity	4	• Unit 1 History of Development of Microbiology	AC	15
			• Unit 2 Diversity of Microbial World		
			A. Systems of classification	AC	5
			B. General characteristics		
			Algae	SC	5
			Fungi	MS	5
			Protozoa	PD	5
			• Unit 3 An overview of Scope of Microbiology	SC	5
	CC-1: INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY (PRACTICAL)	2		SC	60
	CC-2: Bacteriology	4	• Unit 1 Cell organization	PD	10
			• Unit 2 Bacteriological techniques	AC	5
			• Unit 3 Microscopy		5
			• Unit 4 Growth and nutrition	MS	8
			• Unit 5 Reproduction in Bacteria	MS	3
			• Unit 6 Bacterial Systematics		8
			• Unit 7 Important archaeal and eubacterial groups	PD+AC	10
			• Archaebacteria		
			• Eubacteria		

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	CC-2: BACTERIOLOGY (PRACTICAL)	2		PD	60
II	CC-3: Biochemistry	4	• Unit 1 Bioenergetics • Unit 2 Carbohydrates • Unit 3 Lipid • Unit 4 Proteins • Unit 5. Enzymes • Unit 6. Vitamins	SP PD AC PD SC AC	6 10 10 10 10 4
	CC-3: BIOCHEMISTRY (PRACTICALS)	2		PD	60
	CC-4: Cell Biology	4	• Unit 1 Structure and organization of Cell • Unit 2 Nucleus • Unit 3 Protein Sorting and Transport • Unit 4 Cell Signalling • Unit 5 Cell Cycle, Cell Death and Cell Renewal	MS AC AC PD SC	12 4 12 10 12
	CC-4: CELL BIOLOGY (PRACTICAL)	2		AC	60

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III	CC-5: Virology	4	• Unit 1 Nature and Properties of Viruses • Unit 2 Bacteriophages • Unit 3 Viral Transmission, Salient features of viral nucleic acids and Replication • Unit 4 Viruses and Cancer • Unit 5 Prevention & control of viral diseases • Unit 6 Applications of Virology	PD MS SC AC MS AC	10 10 14 6 6 4
	CC-5: VIROLOGY (PRACTICAL)	2		MS	60
	C-6: Microbial Physiology and Metabolism	4	• Unit 1 Microbial Growth and Effect of Environment on Microbial Growth • Unit 2 Nutrient uptake and Transport • Unit 3 Chemoheterotrophic Metabolism - Aerobic Respiration • Unit 4 Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation • Unit 5 Chemolithotrophic and Phototrophic Metabolism • Unit 6 Nitrogen Metabolism - an overview	MS AC PD PD MS AC	10 8 10 6 10 6
	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM (PRACTICAL)	2		AC	60
	CC-7: Molecular Biology	4	• Unit 1 Structures of DNA and RNA / Genetic Material • Unit 2 Replication of DNA (Prokaryotes and Eukaryotes) • Unit 3 Transcription in Prokaryotes and Eukaryotes • Unit 4 Post-Transcriptional Processing • Unit 5 Translation (Prokaryotes and Eukaryotes)	SC AC SC PD AC	10 8 8 6 8

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			• Unit 6 Regulation of gene Expression in Prokaryotes and Eukaryotes	SC	10
	CC-7: MOLECULAR BIOLOGY (PRACTICAL	2		SC	60
	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	2	• Unit 1 Microbiological Laboratory and Safe Practices • Unit 2 Determining Microbes in Food / Pharmaceutical Samples • Unit 3 Pathogenic Microorganisms of Importance in Food & Water • Unit 4 HACCP for Food Safety and Microbial Standards	SC MS AC PD	8 10 8 4
IV	CC-8: Microbial Genetics	4	• Unit 1 Genome Organization and Mutations • Unit 2 Plasmids • Unit 3 Mechanisms of Genetic Exchange • Unit 4 Phage Genetics • Unit 5 Transposable elements	SC SC PD PD SC+PD	14 8 10 8 10
	CC-8: MICROBIAL GENETICS (PRACTICAL)	2	•	SC	60
	CC-9: Environmental Microbiology	4	• Unit 1 Microorganisms and their Habitats • Unit 2 Microbial Interactions • Unit 3 Biogeochemical Cycling • Unit 4 Waste Management • Unit 5 Microbial Bioremediation • Unit 6 Water Potability	AC MS AC MS MS AC	10 10 10 10 5 5
	CC-9: ENVIRONMENTAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	CC-10: Recombinant DNA Technology	4	• Unit 1 Introduction to Genetic Engineering • Unit 2 Molecular Cloning- Tools and Strategies • Unit 3 Methods in Molecular Cloning • Unit4 DNA Amplification and DNA sequencing	SC SC PD AC	2 15 12 9

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			• Unit 5 Construction and Screening of Genomic and cDNA libraries • Unit 6 Applications of Recombinant DNA Technology	AC SC	6 6
	CC-10: RECOMBINANT DNA TECHNOLOGY (PRACTICAL	2		SC	60
	SEC-B B2. Microbiological Analysis of Air and Water	2	• Unit 1 Aeromicrobiolog • Unit 2 Air Sample Collection and Analysis • Unit 3 Control Measures • Unit 4 Water Microbiology • Unit 5 Microbiological Analysis of Water • Unit 6 Control Measures	MS MS MS AC AC AC	4 7 4 4 7 4
V	CC-11: Food and Dairy Microbiology	4	• Unit 1 Foods as a substrate for microorganisms • Unit 2 Microbial spoilage of various foods • Unit 3 Principles and methods of food preservation • Unit 4 Fermented foods • Unit 5 Food borne diseases (causative agents, foods involved, symptoms and preventive measures) • Unit 6 Food sanitation and control • Unit 7 Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive microbiology	MS AC PD SC MS PD SC	6 8 8 8 10 5 5
	C-11: FOOD AND DAIRY MICROBIOLOGY (PRACTICAL	2		AC	60
	CC-12: Industrial Microbiology	4	• Unit 1 Introduction to industrial microbiology • Unit 2 Isolation of industrially important microbial strains and fermentation media	MS MS	2 10

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			• Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters	MS	12
			• Unit 4 Down-stream processing	AC	6
			• Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses)	MS	8
			• Unit 6 Enzyme immobilization	PD	4
	CC-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL)	2		MS	60
	DSE-A A1. Microbial Biotechnology	4	• Unit 1 Microbial Biotechnology and its Application	MS	8
			• Unit 2 Therapeutic and Industrial Biotechnology	SC	8
			• Unit 3 Applications of Microbes in Biotransformations	PD	6
			• Unit 4 Microbial Products and their Recovery	AC	8
			• Unit 5 Microbes for Bio-energy and Environment	AC	10
			• Unit 6 RNAi	PD	6
			• Unit 7 Intellectual Property Rights	SC	4
	DSE-A: 1. MICROBIAL BIOTECHNOLOGY (PRACTICAL)	2		PD	60
	DSE-B B1. Inheritance Biology	4	• Unit 1 Introduction to Genetics	PD	5
			• Unit 2 Mendelian Principles	SC	8
			• Unit 3 Linkage and Crossing over	PD	6
			• Unit 4 Extra-Chromosomal Inheritance	SC	7
			• Unit 5 Characteristics of Chromosomes	SC	15
			• Unit 6 Recombination	PD	3

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	DSE-B: 1. INHERITANCE BIOLOGY (PRACTICAL)	2		SC	60
VI	CC-13: Immunology	4	• Unit 1 Introduction • Unit 2 Immune Cells and Organs • Unit 3 Antigens • Unit 4 Antibodies • Unit 5 Major Histocompatibility Complex • Unit 6 Complement System • Unit 7 Generation of Immune Response • Unit 8 Immunological Disorders and Tumor Immunity • Unit 9 Immunological Techniques	SC+PD	2 6 4 6 4 2 8 8 10
	CC-13: IMMUNOLOGY (PRACTICAL)	2		PD	60
	CC-14: Medical Microbiology	4	• Unit 1 Normal microflora of the human body and host pathogen interaction • Unit 2 Sample collection, transport and diagnosis • Unit 3 Bacterial diseases • Unit 4 Viral diseases • Unit 5 Protozoan diseases • Unit 6 Fungal diseases • Unit 7 Antimicrobial agents: General characteristics and mode of action	AC+MS	7 5 10 10 5 5 8
	CC-14: MEDICAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	DSE-A A3. Plant Pathology	4	• Unit 1 Introduction and History of plant pathology • Unit 2 Stages in development of a disease • Unit 3 Plant disease epidemiology • Unit 4 Host Pathogen Interaction • Unit 5 Control of Plant Diseases • Unit 6 Specific Plant diseases	AC+MS	5 2 5 15 8 15
	DSE-A: 3.PLANT PATHOLOGY (PRACTICAL)	2		MS	60

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	DSE-B B3. Instrumentation and Biotechniques	4	• Unit 1 Microscopy • Unit 2 Chromatography • Unit 3 Electrophoresis • Unit 4 Spectrophotometry • Unit 5 Centrifugation	AC PD SC SC SC	10 10 10 10 10
	DSE-B: 3. INSTRUMENTATION AND BIOTECHNIQUES (PRACTICAL)	2		PD	60

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MICROBIOLOGY

LESSON PLAN OF MICROBIOLOGY HONOURS(UNDERCBCS) (2019-20)

Sem	Course	Credits	Topics	Assigned Teacher	No.of Classes
I	CC-1: Introduction to Microbiology and Microbial Diversity	4	• Unit 1 History of Development of Microbiology	AC	15
			• Unit 2 Diversity of Microbial World A. Systems of classification	AC	5
			B. General characteristics Algae		
			Fungi	SC	5
			Protozoa	MS	5
				PD	5
			• Unit 3 An overview of Scope of Microbiology	SC	5
	CC-1: INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY (PRACTICAL)	2		SC+ADG	60
	CC-2: Bacteriology	4	• Unit 1 Cell organization	PD	10
			• Unit 2 Bacteriological technique	ADG	5
			• Unit 3 Microscopy	AC	5
			• Unit 4 Growth and nutrition	MS	8+3
			• Unit 5 Reproduction in Bacteria	SC	8
			• Unit 6 Bacterial Systematics	AC+PD	10
			• Unit 7 Important archaeal and eubacterial groups		
			• Archaebacteria		
			• Eubacteria		

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	CC-2: BACTERIOLOGY (PRACTICAL)	2		PD	60
II	CC-3: Biochemistry	4	• Unit 1 Bioenergetics • Unit 2 Carbohydrates • Unit 3 Lipid • Unit 4 Proteins • Unit 5. Enzymes • Unit 6. Vitamins	SP PD AC PD SC AC	6 10 10 10 10 4
	CC-3: BIOCHEMISTRY (PRACTICALS)	2		PD	60
	CC-4: Cell Biology	4	• Unit 1 Structure and organization of Cell • Unit 2 Nucleus • Unit 3 Protein Sorting and Transport • Unit 4 Cell Signalling • Unit 5 Cell Cycle, Cell Death and Cell Renewal	MS AC AC PD SC	12 4 12 10 12
	CC-4: CELL BIOLOGY (PRACTICAL)	2		AC	60

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III	CC-5: Virology	4	• Unit 1 Nature and Properties of Viruses • Unit 2 Bacteriophages • Unit 3 Viral Transmission, Salient features of viral nucleic acids and Replication • Unit 4 Viruses and Cancer • Unit 5 Prevention & control of viral diseases • Unit 6 Applications of Virology	PD MS SC AC MS AC	10 10 14 6 6 4
	CC-5: VIROLOGY (PRACTICAL)	2		MS	60
	C-6: Microbial Physiology and Metabolism	4	• Unit 1 Microbial Growth and Effect of Environment on Microbial Growth • Unit 2 Nutrient uptake and Transport • Unit 3 Chemoheterotrophic Metabolism - Aerobic Respiration • Unit 4 Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation • Unit 5 Chemolithotrophic and Phototrophic Metabolism • Unit 6 Nitrogen Metabolism - an overview	MS AC PD PD MS AC	10 8 10 6 10 6
	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM (PRACTICAL)	2		AC	60
	CC-7: Molecular Biology	4	• Unit 1 Structures of DNA and RNA / Genetic Material • Unit 2 Replication of DNA (Prokaryotes and Eukaryotes) • Unit 3 Transcription in Prokaryotes and Eukaryotes • Unit 4 Post-Transcriptional Processing • Unit 5 Translation (Prokaryotes and Eukaryotes)	SC AC SC PD AC	10 8 8 6 8

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			• Unit 6 Regulation of gene Expression in Prokaryotes and Eukaryotes	SC	10
	CC-7: MOLECULAR BIOLOGY (PRACTICAL	2		SC	60
	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	2	• Unit 1 Microbiological Laboratory and Safe Practices • Unit 2 Determining Microbes in Food / Pharmaceutical Samples • Unit 3 Pathogenic Microorganisms of Importance in Food & Water • Unit 4 HACCP for Food Safety and Microbial Standards	SC MS AC PD	8 10 8 4
IV	CC-8: Microbial Genetics	4	• Unit 1 Genome Organization and Mutations • Unit 2 Plasmids • Unit 3 Mechanisms of Genetic Exchange • Unit 4 Phage Genetics • Unit 5 Transposable elements	SC SC PD PD SC+PD	14 8 10 8 10
	CC-8: MICROBIAL GENETICS (PRACTICAL)	2	•	SC	60
	CC-9: Environmental Microbiology	4	• Unit 1 Microorganisms and their Habitats • Unit 2 Microbial Interactions • Unit 3 Biogeochemical Cycling • Unit 4 Waste Management • Unit 5 Microbial Bioremediation • Unit 6 Water Potability	AC MS AC MS MS AC	10 10 10 10 5 5
	CC-9: ENVIRONMENTAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	CC-10: Recombinant DNA Technology	4	• Unit 1 Introduction to Genetic Engineering • Unit 2 Molecular Cloning- Tools and Strategies • Unit 3 Methods in Molecular Cloning • Unit4 DNA Amplification and DNA sequencing	SC SC PD AC	2 15 12 9

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			• Unit 5 Construction and Screening of Genomic and cDNA libraries • Unit 6 Applications of Recombinant DNA Technology	AC SC	6 6
	CC-10: RECOMBINANT DNA TECHNOLOGY (PRACTICAL	2		SC	60
	SEC-B B2. Microbiological Analysis of Air and Water	2	• Unit 1 Aeromicrobiolog • Unit 2 Air Sample Collection and Analysis • Unit 3 Control Measures • Unit 4 Water Microbiology • Unit 5 Microbiological Analysis of Water • Unit 6 Control Measures	MS MS MS AC AC AC	4 7 4 4 7 4
V	CC-11: Food and Dairy Microbiology	4	• Unit 1 Foods as a substrate for microorganisms • Unit 2 Microbial spoilage of various foods • Unit 3 Principles and methods of food preservation • Unit 4 Fermented foods • Unit 5 Food borne diseases (causative agents, foods involved, symptoms and preventive measures) • Unit 6 Food sanitation and control • Unit 7 Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive microbiology	MS AC PD SC MS PD SC	6 8 8 8 10 5 5
	C-11: FOOD AND DAIRY MICROBIOLOGY (PRACTICAL	2		AC	60
	CC-12: Industrial Microbiology	4	• Unit 1 Introduction to industrial microbiology • Unit 2 Isolation of industrially important microbial strains and fermentation media	MS MS	2 10

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			• Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters	MS	12
			• Unit 4 Down-stream processing	AC	6
			• Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses)	MS	8
			• Unit 6 Enzyme immobilization	PD	4
	CC-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL)	2		MS	60
	DSE-A A1. Microbial Biotechnology	4	• Unit 1 Microbial Biotechnology and its Application	MS	8
			• Unit 2 Therapeutic and Industrial Biotechnology	SC	8
			• Unit 3 Applications of Microbes in Biotransformations	PD	6
			• Unit 4 Microbial Products and their Recovery	AC	8
			• Unit 5 Microbes for Bio-energy and Environment	AC	10
			• Unit 6 RNAi	PD	6
			• Unit 7 Intellectual Property Rights	SC	4
	DSE-A: 1. MICROBIAL BIOTECHNOLOGY (PRACTICAL)	2		PD	60
	DSE-B B1. Inheritance Biology	4	• Unit 1 Introduction to Genetics	PD	5
			• Unit 2 Mendelian Principles	SC	8
			• Unit 3 Linkage and Crossing over	PD	6
			• Unit 4 Extra-Chromosomal Inheritance	SC	7
			• Unit 5 Characteristics of Chromosomes	SC	15
			• Unit 6 Recombination	PD	3

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	DSE-B: 1. INHERITANCE BIOLOGY (PRACTICAL)	2		SC	60
VI	CC-13: Immunology	4	• Unit 1 Introduction • Unit 2 Immune Cells and Organs • Unit 3 Antigens • Unit 4 Antibodies • Unit 5 Major Histocompatibility Complex • Unit 6 Complement System • Unit 7 Generation of Immune Response • Unit 8 Immunological Disorders and Tumor Immunity • Unit 9 Immunological Techniques	SC+PD	2 6 4 6 4 2 8 8 10
	CC-13: IMMUNOLOGY (PRACTICAL)	2		PD	60
	CC-14: Medical Microbiology	4	• Unit 1 Normal microflora of the human body and host pathogen interaction • Unit 2 Sample collection, transport and diagnosis • Unit 3 Bacterial diseases • Unit 4 Viral diseases • Unit 5 Protozoan diseases • Unit 6 Fungal diseases • Unit 7 Antimicrobial agents: General characteristics and mode of action	AC+MS	7 5 10 10 5 5 8
	CC-14: MEDICAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	DSE-A A3. Plant Pathology	4	• Unit 1 Introduction and History of plant pathology • Unit 2 Stages in development of a disease • Unit 3 Plant disease epidemiology • Unit 4 Host Pathogen Interaction • Unit 5 Control of Plant Diseases • Unit 6 Specific Plant diseases	AC+MS	5 2 5 15 8 15
	DSE-A: 3.PLANT PATHOLOGY (PRACTICAL)	2		MS	60

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	DSE-B B3. Instrumentation and Biotechniques	4	• Unit 1 Microscopy • Unit 2 Chromatography • Unit 3 Electrophoresis • Unit 4 Spectrophotometry • Unit 5 Centrifugation	AC PD SC SC SC	10 10 10 10 10
	DSE-B: 3. INSTRUMENTATION AND BIOTECHNIQUES (PRACTICAL)	2		PD	60

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MICROBIOLOGY

LESSON PLAN OF MICROBIOLOGY HONOURS(UNDERCBCS) (2018-19)

Sem	Course	Credits	Topics	Assigned Teacher	No. of Classes Per week
I	CC-1: Introduction to Microbiology and Microbial Diversity	4	• Unit 1 History of Development of Microbiology	AC	15
			• Unit 2 Diversity of Microbial World		
			A. Systems of classification	AC	5
			B. General characteristics		
			Algae	SC	5
			Fungi	MS	5
			Protozoa	PD	5
			• Unit 3 An overview of Scope of Microbiology	SC	5
	CC-1: INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY (PRACTICAL)	2		SC+ ADG	60
	CC-2: Bacteriology	4	• Unit 1 Cell organization	SM	10
			• Unit 2 Bacteriological techniques	SM	5
			• Unit 3 Microscopy	AC	5
			• Unit 4 Growth and nutrition	MS	8
			• Unit 5 Reproduction in Bacteria	MS	3
			• Unit 6 Bacterial Systematics	SC	8
			• Unit 7 Important archaeal and eubacterial groups	AC+PD	10
			• Archaebacteria		
			• Eubacteria		

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	CC-2: BACTERIOLOGY (PRACTICAL)	2		PD	60
II	CC-3: Biochemistry	4	• Unit 1 Bioenergetics • Unit 2 Carbohydrates • Unit 3 Lipids • Unit 4 Proteins • Unit 5. Enzymes • Unit 6. Vitamins	SP PD AC PD SC AC	6 10 10 10 10 4
	CC-3: BIOCHEMISTRY (PRACTICALS)	2		PD	60
	CC-4: Cell Biology	4	• Unit 1 Structure and organization of Cell • Unit 2 Nucleus • Unit 3 Protein Sorting and Transport • Unit 4 Cell Signalling • Unit 5 Cell Cycle, Cell Death and Cell Renewal	MS+ MG MS SM SM SC	12 4 12 10 12
	CC-4: CELL BIOLOGY (PRACTICAL)	2		AC	60

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III	CC-5: Virology	4	• Unit 1 Nature and Properties of Viruses	PD	10
			• Unit 2 Bacteriophages	MS	10
			• Unit 3 Viral Transmission, Salient features of viral nucleic acids and Replication	SC+MG	14
			• Unit 4 Viruses and Cancer	AC	6
			• Unit 5 Prevention & control of viral diseases	MS	6
			• Unit 6 Applications of Virology	AC	4
	CC-5: VIROLOGY (PRACTICAL)	2		MG+SM	60
	CC-6: Microbial Physiology and Metabolism	4	• Unit 1 Microbial Growth and Effect of Environment on Microbial Growth	MG+MS	10
			• Unit 2 Nutrient uptake and Transport	SM	8
			• Unit 3 Chemoheterotrophic Metabolism - Aerobic Respiration	PD	10
			• Unit 4 Chemoheterotrophic Metabolism- Anaerobic respiration and fermentation	PD	6
			• Unit 5 Chemolithotrophic and Phototrophic Metabolism	MS	10
			• Unit 6 Nitrogen Metabolism - an overview	SM	6
	CC-6: MICROBIAL PHYSIOLOGY AND METABOLISM (PRACTICAL)	2		AC+SM	60
	CC-7: Molecular Biology	4	• Unit 1 Structures of DNA and RNA / Genetic Material	SC	10
			• Unit 2 Replication of DNA (Prokaryotes and Eukaryotes)	AC	8
			• Unit 3 Transcription in Prokaryotes and Eukaryotes	SM	8
			• Unit 4 Post-Transcriptional Processing	SM	6
			• Unit 5 Translation (Prokaryotes and Eukaryotes)	AC	8
			• Unit 6 Regulation of gene Expression in Prokaryotes and Eukaryotes	SC	10

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	CC-7: MOLECULAR BIOLOGY (PRACTICAL	2		SC	60
	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	2	• Unit 1 Microbiological Laboratory and Safe Practices • Unit 2 Determining Microbes in Food / Pharmaceutical Samples • Unit 3 Pathogenic Microorganisms of Importance in Food & Water • Unit 4 HACCP for Food Safety and Microbial Standards	SC MS AC PD	8 10 8 4
IV	CC-8: Microbial Genetics	4	• Unit 1 Genome Organization and Mutations • Unit 2 Plasmids • Unit 3 Mechanisms of Genetic Exchange • Unit 4 Phage Genetics • Unit 5 Transposable elements	SC SC PD PD SC+PD	14 8 10 8 10
	CC-8: MICROBIAL GENETICS (PRACTICAL)	2	•	SC	60
	CC-9: Environmental Microbiology	4	• Unit 1 Microorganisms and their Habitats • Unit 2 Microbial Interactions • Unit 3 Biogeochemical Cycling • Unit 4 Waste Management • Unit 5 Microbial Bioremediation • Unit 6 Water Potability	AC MS AC MS MS AC	10 10 10 10 5 5
	CC-9: ENVIRONMENTAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	CC-10: Recombinant DNA Technology	4	• Unit 1 Introduction to Genetic Engineering • Unit 2 Molecular Cloning- Tools and Strategies • Unit 3 Methods in Molecular Cloning • Unit4 DNA Amplification and DNA sequencing • Unit 5 Construction and Screening of Genomic and cDNA libraries • Unit 6 Applications of Recombinant DNA Technology	SC SC PD AC AC SC	2 15 12 9 6 6

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	CC-10: RECOMBINANT DNA TECHNOLOGY (PRACTICAL	2		SC	60
	SEC-B B2. Microbiological Analysis of Air and Water	2	• Unit 1 Aeromicrobiolog • Unit 2 Air Sample Collection and Analysis • Unit 3 Control Measures • Unit 4 Water Microbiology • Unit 5 Microbiological Analysis of Water • Unit 6 Control Measures	MS MS MS AC AC AC	4 7 4 4 7 4
V	CC-11: Food and Dairy Microbiology	4	• Unit 1 Foods as a substrate for microorganisms • Unit 2 Microbial spoilage of various foods • Unit 3 Principles and methods of food preservation • Unit 4 Fermented foods • Unit 5 Food borne diseases (causative agents, foods involved, symptoms and preventive measures) • Unit 6 Food sanitation and control • Unit 7 Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive microbiology	MS AC PD SC MS PD SC	6 8 8 8 10 5 5
	C-11: FOOD AND DAIRY MICROBIOLOGY (PRACTICAL	2		AC	60
	CC-12: Industrial Microbiology	4	• Unit 1 Introduction to industrial microbiology • Unit 2 Isolation of industrially important microbial strains and fermentation media • Unit 3 Types of fermentation processes, bio-reactors and measurement of fermentation parameters • Unit 4 Down-stream processing • Unit 5 Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses) • Unit 6 Enzyme immobilization	MS MS MS AC MS PD	2 10 12 6 18 4

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	CC-12: INDUSTRIAL MICROBIOLOGY (PRACTICAL)	2		MS	60
	DSE-A A1. Microbial Biotechnology	4	• Unit 1 Microbial Biotechnology and its Application • Unit 2 Therapeutic and Industrial Biotechnology • Unit 3 Applications of Microbes in Biotransformations • Unit 4 Microbial Products and their Recovery • Unit 5 Microbes for Bio-energy and Environment • Unit 6 RNAi • Unit 7 Intellectual Property Rights	MS SC PD AC AC PD SC	8 8 6 8 10 6 4
	DSE-A: 1. MICROBIAL BIOTECHNOLOGY (PRACTICAL)	2		PD	60
	DSE-B B1. Inheritance Biology	4	• Unit 1 Introduction to Genetics • Unit 2 Mendelian Principles • Unit 3 Linkage and Crossing over • Unit 4 Extra-Chromosomal Inheritance • Unit 5 Characteristics of Chromosomes • Unit 6 Recombination	PD SC PD SC SC PD	5 8 6 7 15 3
	DSE-B: 1. INHERITANCE BIOLOGY (PRACTICAL)	2		SC	60
VI	CC-13: Immunology	4	• Unit 1 Introduction • Unit 2 Immune Cells and Organs • Unit 3 Antigens • Unit 4 Antibodies • Unit 5 Major Histocompatibility Complex • Unit 6 Complement System • Unit 7 Generation of Immune Response • Unit 8 Immunological Disorders and Tumor Immunity • Unit 9 Immunological Techniques	SC+PD	2 6 4 6 4 2 8 8 10
	CC-13: IMMUNOLOGY (PRACTICAL)	2		PD	60

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	CC-14: Medical Microbiology	4	• Unit 1 Normal microflora of the human body and host pathogen interaction • Unit 2 Sample collection, transport and diagnosis • Unit 3 Bacterial diseases • Unit 4 Viral diseases • Unit 5 Protozoan diseases • Unit 6 Fungal diseases • Unit 7 Antimicrobial agents: General characteristics and mode of action	MS MS AC MS AC MS AC	7 5 10 10 5 5 8
	CC-14: MEDICAL MICROBIOLOGY (PRACTICAL)	2		AC	60
	DSE-A A3. Plant Pathology	4	• Unit 1 Introduction and History of plant pathology • Unit 2 Stages in development of a disease • Unit 3 Plant disease epidemiology • Unit 4 Host Pathogen Interaction • Unit 5 Control of Plant Diseases • Unit 6 Specific Plant diseases	MS AC AC AC MS MS	5 2 5 15 8 15
	DSE-A: 3.PLANT PATHOLOGY (PRACTICAL)	2		MS	60
	DSE-B B3. Instrumentation and Biotechniques	4	• Unit 1 Microscopy • Unit 2 Chromatography • Unit 3 Electrophoresis • Unit 4 Spectrophotometry • Unit 5 Centrifugation	AC PD SC SC SC	10 10 10 10 10
	DSE-B: 3. INSTRUMENTATION AND BIOTECHNIQUES (PRACTICAL)	2		SC	60

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2022-2023

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week**	Assigned Teacher	Remarks (If any)
1st	3 Years Honours (CBCS)	CC1 Th: Calculus, Recapitulation of Vector Algebra, Vector Differentiation	2	Ipsita Sen	
		CC1 Th: Vector Integration, Orthogonal Curvilinear Coordinates	1	Abhedananda Bhattacharya	
		CC1 Th: Matrices	1	Sayantani Kar	
		CC1 Practical			
		CC1 Practical			
		CC2 Th: Fundamentals of Dynamics, Work and Energy, Non-Inertial Systems	2	Dr. Kalpana Santra (Maji)	
		CC2 Th: Gravitation and Central Force Motion, Fluid Motion	1	Dr. Bipan Dutta	
		CC2 Th: Rotational Dynamics	1	Abhedananda Bhattacharya	
		CC2 Practical			
		CC2 Practical			
3rd	3 Years Honours (CBCS)	CC5 Th: Fourier Series, Some Special Integrals, Integrals Transform, Introduction to Probability	2	Dr. Kalpana Santra (Maji)	

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		CC5 Th: Frobenius Method and Special Functions	1	Ujjal Saren	
		CC5 Th: Partial Differential Equations.	1	Dr. Bipan Dutta	
		CC5 Practical			
		CC5 Practical			
		CC6 Th: Introduction to Thermodynamic, Conduction of Heat.	2	Dr. Sannak Dutta Roy	
		CC6 Th: ThermodynamicPotentials, Kinetic Theory of Gases	2	Abhedananda Bhattacharya	
		CC6 Practical			
		CC6 Practical			
		CC7 Th: Radiation and its Nature, Basic of Quantum Mechanics.	2	Ujjal Saren	
		CC7 Th: Nuclear Structure, Interaction with and within nucleus, Interaction with and within nucleus, Laser.	2	Ananya Kumar Kundu	
		CC7 Practical			
		CC7 Practical			
		SEC A-1: Scientific Writings	1	Ananya Kumar Kundu	
5th	3 Years Honours (CBCS)	CC11 Th: Maxwell Equation, EM Wave Propagation in Unbounded Media, EM wave in Bounded Media.	2	Dr. Kalpana Santra (Maji)	
		CC11 Th: Polarization, Rotatory polarization	1	Ujjal Saren	
		CC11 Th: Polarization in Uniaxial Crystals	1	Dr. Bipan Dutta	
		CC11 Practical			
		CC11 Practical			
		CC12 Th: Classical Statistical Mechanics	1	Dr. Kalpana Santra (Maji)	
		CC12 Th: System of Identical Particles , Bose-Einstein Statistics, Radiation	2	Abhedananda Bhattacharya	

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		CC12 Th: Fermi-Dirac Statistics.	1	Ujjal Saren	
		CC12 Practical			
		CC12 Practical			
		DSE- A1(b) : Einstein Coefficients and Rate Equation, Basic Properties of Laser, Resonator, Transient Effect, Basic Laser System, Practical properties and Uses of Laser.	3	Dr. Sannak Dutta Roy	
		DSE- A1(b) : Fiber Optics, Holography, Introduction to Nonlinear Optics	2	Ananya Kumar Kundu	
		DSE- B1(b) : Introduction, Nuclear Reactions, Interaction of Nuclear Radiation with Matter, Detector for Nuclear Radiation. Particle Accelerators,	3	Sayantani Kar	
		DSE- B1(b): Particle Physics.	1	Ipsita Sen	

****Duration of each lecture is one hour**

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2022-2023

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week**	Assigned Teacher	Remarks (If any)
2nd	3 Years Honours (CBCS)	CC3 Th: Dirac delta function and its properties, Electrostatics, Dielectric properties of matter.	1	Ananya Kumar Kundu	
		CC3 Th: Method of Images, Electrostatic Energy, The Magnetostatic Field, Magnetic properties of matter.	2	Abhedananda Bhattacharya	
		CC3 Th: Electro-magnetic induction, Electrical circuits.	1	Dr. Sannak Dutta Roy	
		CC3 Practical			
		CC3 Practical			
		CC4 Th: Oscillations, Superposition of Harmonic Oscillations, Wave motion, Superposition of Harmonic Waves.	2	Dr. Kalpana Santra (Maji)	
		CC4 Th: Wave optics, Interference,	1	Dr. Sannak Dutta Roy	
		CC4 Th: Interferometers, Diffraction.	1	Sayantani Kar	
		CC4 Practical			
		CC4 Practical			
4th	3 Years	CC8 Th: Complex Analysis.	1	Dr. Bipan Dutta	

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	Honours (CBCS)	CC8 Th: Variational calculus in Physics.	1	Abhedananda Bhattacharya	
		CC8 Th: Special theory of Relativity.	2	Dr. Kalpana Santra (Maji)	
		CC8 Practical			
		CC8 Practical			
		CC9 Th: Circuits and Network, Semiconductor Diodes and application, Bipolar Junction transistors and biasing.	1	Dr. Sannak Dutta Roy	
		CC9 Th: Field Effect transistors, Regulated power supply, Amplifiers, Multivibrator, Oscillators.	2	Abhedananda Bhattacharya	
		CC9 Th: Feedback amplifiers and OPAMP.	1	Dr. Bipan Dutta	
		CC9 Practical			
		CC9 Practical			
		CC10 Th: Wavepacket description, General discussion of bound states in an arbitrary potential, Quantum mechanics of simple harmonic oscillator, Quantum theory of hydrogen-like atoms.	2	Ananya Kumar Kundu	
		CC10 Th: Generalized Angular Momenta and Spin, Spectra of Hydrogen atom and its fine structure, Atoms in Electric & Magnetic Fields, Many electron atoms.	2	Ujjal Saren	
		CC10 Practical			
		CC10 Practical			
		SEC	1	Ipsita Sen	
		SEC	1	Ananya Kumar Kundu	
6th	3 Years Honours (CBCS)	CC13 Th: Integrated Circuits, Number System.	1	Ujjal Saren	
		CC13 Th: Digital Circuits	1	Dr. Bipan Dutta	
		CC13 Th: Implementation of different circuits, Data	1	Sayantani Kar	

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		processing circuits, Sequential Circuits.			
		CC13 Th: Registers and Counters, Computer Organization, Data Conversion.	1	Ipsita Sen	
		CC13 Practical			
		CC13 Practical			
		CC14 Th: Crystal Structure, Elementary Lattice Dynamics.	1	Dr. Kalpana Santra (Maji)	
		CC14 Th: Magnetic Properties of Matter, Dielectric Properties of Materials, Drude's theory.	2	Abhedananda Bhattacharya	
		CC14 Th: Elementary band theory, Superconductivity.	1	Ujjal Saren	
		CC14 Practical			
		CC14 Practical			
		DSE A2 (a): Nanoscale Systems, Electron Transport, Applications.	2	Ujjal Saren	
		DSE A2 (a): Synthesis of Nanostructure Materials, Characterization, Optical Properties.	2	Dr. Sannak Dutta Roy	
		DSE B2 (a): Electronic communication Analog Modulation.	1	Dr. Kalpana Santra (Maji)	
		DSE B2 (a): Analog Pulse Modulation, Introduction to Communication and Navigation systems.	2	Sayantani Kar	
		DSE B2 (a): Digital Pulse Modulation	1	Ipsita Sen	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2022-2023

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week**	Assigned Teacher	Remarks (If any)
1st	3 Years (CBCS)	CC1/GE1 Th: Mathematical Methods	1	Ujjal Saren	
		CC1/GE1 Th: Introduction to Newtonian Mechanics, Rotational Motion	1	Dr. Kalpana Santra (Maji)	
		CC1/GE1 Th: Central force and Gravitation, Oscillations	1	Abhedananda Bhattacharya	
		CC1/GE1 Th: Elasticity, Surface Tension	1	Sayantani Kar	
		CC1/GE1 Practical			
		CC1/GE1 Practical			
3rd	3 Years (CBCS)	CC3/GE3: Laws of Thermodynamics	1	Dr. Sannak Dutta Roy	
		CC3/GE3: Thermodynamical Potentials, Theory of Radiation, Statistical Mechanics.	2	Ujjal Saren	
		CC3/GE3: Kinetic Theory of Gases.	1	Abhedananda Bhattacharya	
		CC3/GE3 Practical			

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		CC3/GE3 Practical			
5th	3 Years (CBCS)	DSE-A(1): Circuits and Network, Semiconductor Devices.	1	Ipsita Sen	
		DSE-A(1): Regulated Power Supply, Field Effect transistors, Feedback Amplifiers.	1	Sayantani Kar	
		DSE-A(1) : Operational Ampliers, Sinusoidal Oscillators:	1	Dr. Bipan Dutta	
		SEC	1	Ipsita Sen	
		SEC	1	Ananya Kumar Kundu	
		DSE-A(1) Practical			
		DSE-A(1) Practical			

****Duration of each lecture is one hour**

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2022-2023

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week**	Assigned Teacher	Remarks (If any)
2nd	3 Years (CBCS)	CC2/GE2 Th: Essential Vector Analysis, Electrostatics- Coulomb law, Electric Dipole Moment, Electromagnetic Induction, Electrodynamics	2	Ujjal Saren	
		CC2/GE2 Th: Electrostatics- Divergence of the Electrostatic field, Curl of the Electrostatic field	1	Ananya Kumar Kundu	
		CC2/GE2 Th: Magnetism	1	Abhedananda Bhattacharya	
		CC2/GE2 Practical			
		CC2/GE2 Practical			
4th	3 Years (CBCS)	CC4/GE4 Th: Accoustics, Superposition of vibrations.	1	Dr. Kalpana Santra (Maji)	
		CC4/GE4 Th: Vibrations in String, Introduction to wave Optics.	1	Ipsita Sen	
		CC4/GE4 Th: Interference	1	Dr. Sannak Dutta Roy	
		CC4/GE4 Th: Diffraction, Polarization.	1	Sayantani Kar	
		SEC- Arduino	1	Ipsita Sen	
		SEC – Arduino	1	Ananya Kumar	

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				Kundu	
		CC4/GE4 Practical			
		CC4/GE4 Practical			
6th	3 Years (CBCS)	DSE B (1) Th: Integrated Circuits, Number System.	1	Ujjal Saren	
		DSE B (1) Th: Digital Circuits.	1	Dr. Bipan Dutta	
		DSE B (1) Th: Data processing circuits, Sequential Circuits.	1	Sayantani Kar	
		DSE B (1) Th: Registers and Counters.	1	Ipsita Sen	
		DSE B (1) Practical			
		DSE B (1) Practical			

****Duration of each lecture is one hour**

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2021-2022

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years Honours (CBCS)	CC1 Th: Calculus-Recapitulation, Infinite Series, First and Second Order Differentiation	1	Dr. Bramhananda Bhattacharya	
		CC1 Th: Calculus of functions of more than one variable, Recapitulation of Vector Algebra, Vector Differentiation.	1	Dr. Sannak Dutta Roy	
		CC1 Th: Vector Integration, Orthogonal Curvilinear Coordinates	1	Ujjal Saren	
		CC1 Th: Matrices	1	Sayantani Kar	
		CC1 Practical			
		CC1 Practical			
		CC2 Th: Fundamentals of Dynamics.	1	Ipsita Sen	
		CC2 Th: Work and Energy, Non-Inertial Systems	1	Dr. Kalpana Santra (Maji)	
		CC2 Th: Gravitation and Central Force Motion, Fluid Motion	1	Dr. Bipan Dutta	
		CC2 Th: Rotational Dynamics	1	Abhedananda Bhattacharya	

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		CC2 Practical			
		CC2 Practical			
3rd	3 Years Honours (CBCS)	CC5 Th: Fourier Series, Some Special Integrals, Integrals Transform.	2	Dr. Kalpana Santra (Maji)	
		CC5 Th: Frobenius Method and Special Functions	1	Ujjal Saren	
		CC5 Th: Introduction to Probability, Partial Differential Equations.	1	Dr. Sannak Dutta Roy	
		CC5 Practical			
		CC5 Practical			
		CC6 Th: Introduction to Thermodynamic, Thermodynamic Potentials.	2	Sayantani Kar	
		CC6 Th: Kinetic Theory of Gases-Distribution of velocities, Molecular Collisions	1	Abhedananda Bhattacharya	
		CC6 Th: Kinetic Theory of Gases- Real Gases, Conduction of Heat.	1	Ananya Kumar Kundu	
		CC6 Practical			
		CC6 Practical			
		CC7 Th: Radiation and its Nature, Basic of Quantum Mechanics.	2	Ujjal Saren	
		CC7 Th: Nuclear Structure	1	Dr. Bramhananda Bhattacharya	
		CC7 Th: Interaction with and within nucleus, Interaction with and within nucleus, Laser.	1	Dr. Bipan Dutta	
		CC7 Practical			
		CC7 Practical			
		SEC A-1: Renewable energy and energy harvesting	1	Ananya Kumar Kundu	
5th	3 Years	CC11 Th: Maxwell Equation, EM Wave Propagation	1	Dr. Kalpana Santra	

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	Honours (CBCS)	in Unbounded Media.		(Maji)	
		CC11 Th: EM wave in Bounded Media.	1	Ipsita Sen	
		CC11 Th: Polarization, Polarization in Uniaxial Crystals , Rotatory polarization.	2	Ujjal Saren	
		CC11 Practical			
		CC11 Practical			
		CC12 Th: Classical Statistical Mechanics, System of Identical Particles, Bose-Einstein Statistics.	2	Dr. Kalpana Santra (Maji)	
		CC12 Th:, Radiation, Fermi-Dirac Statistics.	2	Abhedananda Bhattacharya	
		CC12 Practical			
		CC12 Practical			
		DSE- A1(b) : Einstein Coefficients and Rate Equation	2	Dr. Bipan Dutta	
		DSE- A1(b) : Basic Properties of Laser, Resonator, Transient Effect, Basic Laser System, Practical properties and Uses of Laser, Introductory Nonlinear Optics.	2	Dr. Sannak Dutta Roy	
		DSE- A1(b) : Fiber Optics, Holography.	2	Ananya Kumar Kundu	
		DSE- B1(b) : Introduction, Nuclear Reactions.	1	Sayantani Kar	
		DSE- B1(b): Interaction of Nuclear Radiation with Matter.	1	Ipsita Sen	
		DSE-B1(b): Detector for Nuclear Radiation. Particle Accelerators,	2	Ujjal Saren	
		DSE-B1(b): Particle Physics.	2	Dr. Bramhananda Bhattacharya	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2021-2022

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd	3 Years Honours (CBCS)	CC3 Th: Dirac delta function and it's properties, Electrostatics, Dielectric properties of matter.	1	Ananya Kumar Kundu	
		CC3 Th: Method of Images, Electrostatic Energy.	1	Dr. Sannak Dutta Roy	
		CC3 Th: The Magnetostatic Field, Magnetic properties of matter.	1	Abhedananda Bhattacharya	
		CC3 Th: Electro-magnetic induction, Electrical circuits.	1	Dr. Bipan Dutta	
		CC3 Practical			
		CC3 Practical			
		CC4 Th: Oscillations, Superposition of Harmonic Oscillations, Wave motion.	1	Dr. Kalpana Santra (Maji)	
		CC4 Th: Superposition of Harmonic Waves, Wave optics.	1	Ipsita Sen	
		CC4 Th: Interference, Interferometers, Diffraction.	1	Ujjal Saren	
		CC4 Th: Diffraction.	1	Sayantani Kar	
		CC4 Practical			

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		CC4 Practical			
4th	3 Years Honours (CBCS)	CC8 Th: Complex Analysis.	1	Dr. Bipan Dutta	
		CC8 Th: Variational calculus in Physics.	1	Abhedananda Bhattacharya	
		CC8 Th: Special theory of Relativity.	1	Dr. Kalpana Santra (Maji)	
		CC8 Practical			
		CC8 Practical			
		CC9 Th: Circuits and Network, Semiconductor Diodes and application, Bipolar Junction transistors and biasing.	1	Dr. Sannak Dutta Roy	
		CC9 Th: Field Effect transistors, Regulated power supply, Multivibrator.	1	Ipsita Sen	
		CC9 Th: Amplifiers	1	Ujjal Saren	
		CC9 Th: Feedback amplifiers and OPAMP, Oscillators.	1	Sayantani Kar	
		CC9 Practical			
		CC9 Practical			
		CC10 Th: Wavepacket description, General discussion of bound states in an arbitrary potential, Quantum mechanics of simple harmonic oscillator, Quantum theory of hydrogen-like atoms.	1	Ananya Kumar Kundu	
		CC10 Th: Generalized Angular Momenta and Spin, Spectra of Hydrogen atom and its fine structure, Atoms in Electric & Magnetic Fields, Many electron atoms.	1	Ujjal Saren	
		CC10 Practical			
		CC10 Practical			

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		SEC B2: DC Generator, Transformer.	1	Ipsita Sen	
		SEC B2: AC motor, Measurements and faults.	1	Ananya Kumar Kundu	
6th	3 Years Honours (CBCS)	CC13 Th: Integrated Circuits, Number System.	1	Dr. Kalpana Santra (Maji)	
		CC13 Th: Digital Circuits, Implementation of different circuits, Data processing circuits, Sequential Circuits.	1	Sayantani Kar .	
		CC13 Th: Registers and Counters, Computer Organization, Data Conversion.	1	Ipsita Sen	
		CC13 Practical			
		CC13 Practical			
		CC14 Th: Crystal Structure, Elementary Lattice Dynamics.	1	Dr. Kalpana Santra (Maji)	
		CC14 Th: Magnetic Properties of Matter, Dielectric Properties of Materials, Drude's theory, Elementary band theory, Superconductivity.	2	Abhedananda Bhattacharya	
		CC14 Practical			
		CC14 Practical			
		DSE A2 (b): Calculus of Variations	1	Dr. Bipan Dutta	
		DSE A2 (b): Small Oscillations, Rigid Body Motion, Nonlinear Dynamics	1	Ujjal Saren	
		DSE B2 (a): Electronic communication Analog Modulation.	1	Dr. Sannak Dutta Roy	
		DSE B2 (a): Digital Pulse Modulation, Introduction to Communication and Navigation systems.	1	.Ujjal Saren	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2021-2022

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years (CBCS)	CC1/GE1 Th: Mathematical Methods	1	US	
		CC1/GE1 Th: Introduction to Newtonian Mechanics, Rotational Motion	1	KS	
		CC1/GE1 Th: Central force and Gravitation, Oscillations	1	Bipan Dutta	
		CC1/GE1 Th: Elasticity, Surface Tension	1	SDR	
		CC1/GE1 Practical			
		CC1/GE1 Practical			
3rd	3 Years (CBCS)	CC3/GE3: Laws of Thermodynamics	1	KS	
		CC3/GE3: Thermodynamical Potentials, Theory of Radiation, Statistical Mechanics.	1	BNB	
		CC3/GE3: Kinetic Theory of Gases.	1	Abhedananda Bhattacharya	

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		CC3/GE3 Practical			
		CC3/GE3 Practical			
5th		DSE-A(1): Circuits and Network, Semiconductor Devices.	1	IS	
		DSE-A(1) : Regulated Power Supply, Field Effect transistors.	1	SK	
		DSE-A(1) : Feedback Amplifiers, Operational Ampliers.	1	US	
		SEC	1	IS	
		SEC	2	AKK	
		DSE-A(1) Practical			
		DSE-A(1) Practical			

TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2021-2022

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd		CC2/GE2 Th: Essential Vector Analysis, Electrostatics-Coulomb law, Electric Dipole Moment, Electromagnetic Induction, Electrodynamics	1	US	
		CC2/GE2 Th: Magnetism	1	ABh	
		CC2/GE2 Th: Electrostatics- Divergence of the Electrostatic field, Curl of the Electrostatic field	1	AK	

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		CC2/GE2 Practical			
		CC2/GE2 Practical			
4th		CC4/GE4 Th: Accoustics, Superposition of vibrations.	1	KS	
		CC4/GE4 Th: Vibrations in String, Introduction to wave Optics.	1	IS	
		CC4/GE4 Th: Interference	1	SDR	
		CC4/GE4 Th: Diffraction, Polarization.	1	SK	
		SEC-	1	IS	
		SEC –	1	AK	
		CC4/GE4 Practical			
		CC4/GE4 Practical			
6th		DSE B (1) Th: Integrated Circuits, Number System.	1	US	
		DSE B (1) Th: Digital Circuits.	1	BD	
		DSE B (1) Th: Data processing circuits, Sequential Circuits.	1	SK	
		DSE B(1) Th: Registers and Counters.	1	IS	
		DSE B (1) Practical			
		DSE B (1) Practical			

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		CC2/GE2 Practical			
		CC2/GE2 Practical			
4th		CC4/GE4 Th: Accoustics, Superposition of vibrations.	1	KS	
		CC4/GE4 Th: Vibrations in String, Introduction to wave Optics.	1	IS	
		CC4/GE4 Th: Interference	1	SDR	
		CC4/GE4 Th: Diffraction, Polarization.	1	SK	
		SEC-	1	IS	
		SEC –	1	AK	
		CC4/GE4 Practical			
		CC4/GE4 Practical			
6th		DSE B (1) Th: Integrated Circuits, Number System.	1	US	
		DSE B (1) Th: Digital Circuits.	1	BD	
		DSE B (1) Th: Data processing circuits, Sequential Circuits.	1	SK	
		DSE B(1) Th: Registers and Counters.	1	IS	
		DSE B (1) Practical			
		DSE B (1) Practical			

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2020-2021

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years Honours (CBCS)	CC1 Th: Calculus-Recapitulation, Infinite Series, First and Second Order Differentiation	1	Dr. Bramhananda Bhattacharya	
		CC1 Th: Calculus of functions of more than one variable, Recapitulation of Vector Algebra, Vector Differentiation.	1	Dr. Sannak Dutta Roy	
		CC1 Th: Vector Integration, Orthogonal Curvilinear Coordinates	1	Ujjal Saren	
		CC1 Th: Matrices	1	Sayantani Kar	
		CC1 Practical			
		CC1 Practical			
		CC2 Th: Fundamentals of Dynamics.	1	Ipsita Sen	
		CC2 Th: Work and Energy, Non-Inertial Systems	1	Dr. Kalpana Santra (Maji)	
		CC2 Th: Gravitation and Central Force Motion, Fluid Motion	1	Dr. Bipan Dutta	
		CC2 Th: Rotational Dynamics	1	Abhedananda Bhattacharya	

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		CC2 Practical			
		CC2 Practical			
3rd	3 Years Honours (CBCS)	CC5 Th: Fourier Series, Some Special Integrals, Integrals Transform.	2	Dr. Kalpana Santra (Maji)	
		CC5 Th: Frobenius Method and Special Functions	1	Ujjal Saren	
		CC5 Th: Introduction to Probability, Partial Differential Equations.	1	Dr. Sannak Dutta Roy	
		CC5 Practical			
		CC5 Practical			
		CC6 Th: Introduction to Thermodynamic, Thermodynamic Potentials.	2	Sayantani Kar	
		CC6 Th: Kinetic Theory of Gases-Distribution of velocities, Molecular Collisions	1	Abhedananda Bhattacharya	
		CC6 Th: Kinetic Theory of Gases- Real Gases, Conduction of Heat.	1	Ananya Kumar Kundu	
		CC6 Practical			
		CC6 Practical			
		CC7 Th: Radiation and its Nature, Basic of Quantum Mechanics.	2	Ujjal Saren	
		CC7 Th: Nuclear Structure	1	Dr. Bramhananda Bhattacharya	
		CC7 Th: Interaction with and within nucleus, Interaction with and within nucleus, Laser.	1	Dr. Bipan Dutta	
		CC7 Practical			
		CC7 Practical			
		SEC A-2: Fossil fuels and Alternate Sources of energy, Solar energy, Wind Energy harvesting, Ocean Energy	1	Ipsita Sen	

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		SEC A-2: Geothermal Energy, Hydro Energy, Piezoelectric Energy harvesting, Electromagnetic Energy Harvesting, Fuel cell.	1	Ananya Kumar Kundu	
5th	3 Years Honours (CBCS)	CC11 Th: Maxwell Equation, EM Wave Propagation in Unbounded Media, EM wave in Bounded Media	1	Dr. Kalpana Santra (Maji)	
		CC11 Th: Polarization, Polarization in Uniaxial Crystals, Rotatory polarization.	2	Ujjal Saren	
		CC11 Practical			
		CC11 Practical			
		CC12 Th: Classical Statistical Mechanics, System of Identical Particles, Bose-Einstein Statistics.	2	Dr. Kalpana Santra (Maji)	
		CC12 Th: Radiation, Fermi-Dirac Statistics.	2	Abhedananda Bhattacharya	
		CC12 Practical			
		CC12 Practical			
		DSE- A1(b) : Einstein Coefficients and Rate Equation	2	Dr. Bipan Dutta	
		DSE- A1(b) : Basic Properties of Laser, Resonator, Transient Effect, Basic Laser System, Practical properties and Uses of Laser, Introductory Nonlinear Optics.	2	Dr. Sannak Dutta Roy	
		DSE- A1(b) : Fiber Optics, Holography.	1	Ananya Kumar Kundu	
		DSE- B1(b) : Introduction, Nuclear Reactions.	1	Sayantani Kar	
		DSE- B1(b): Interaction of Nuclear Radiation with Matter.	1	Ipsita Sen	
		DSE-B1(b): Detector for Nuclear Radiation. Particle Accelerators,	2	Ujjal Saren	
		DSE-B1(b): Particle Physics.	1	Dr. Bramhananda Bhattacharya	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2020-2021

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd	3 Years Honours (CBCS)	CC3 Th: Dirac delta function and it's properties, Electrostatics, Dielectric properties of matter.	1	Ananya Kumar Kundu	
		CC3 Th: Method of Images, Electrostatic Energy.	1	Dr. Sannak Dutta Roy	
		CC3 Th: The Magnetostatic Field, Magnetic properties of matter.	1	Abhedananda Bhattacharya	
		CC3 Th: Electro-magnetic induction, Electrical circuits.	1	Dr. Bipan Dutta	
		CC3 Practical			
		CC3 Practical			
		CC4 Th: Oscillations, Superposition of Harmonic Oscillations, Wave motion.	1	Dr. Kalpana Santra (Maji)	
		CC4 Th: Superposition of Harmonic Waves, Wave optics.	1	Ipsita Sen	
		CC4 Th: Interference, Interferometers, Diffraction.	1	Ujjal Saren	
		CC4 Th: Diffraction.	1	Sayantani Kar	

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		CC4 Practical			
		CC4 Practical			
4th	3 Years Honours (CBCS)	CC8 Th: Complex Analysis.	1	Dr. Bipan Dutta	
		CC8 Th: Variational calculus in Physics.	1	Abhedananda Bhattacharya	
		CC8 Th: Special theory of Relativity.	2	Dr. Kalpana Santra (Maji)	
		CC8 Practical			
		CC8 Practical			
		CC9 Th: Circuits and Network, Semiconductor Diodes and application, Bipolar Junction transistors and biasing.	1	Dr. Sannak Dutta Roy	
		CC9 Th: Field Effect transistors, Regulated power supply, Multivibrator.	1	Ipsita Sen	
		CC9 Th: Amplifiers	1	Ujjal Saren	
		CC9 Th: Feedback amplifiers and OPAMP, Oscillators.	1	Sayantani Kar	
		CC9 Practical			
		CC9 Practical			
		CC10 Th: Wavepacket description, General discussion of bound states in an arbitrary potential, Quantum mechanics of simple harmonic oscillator, Quantum theory of hydrogen-like atoms.	2	Ananya Kumar Kundu	
		CC10 Th: Generalized Angular Momenta and Spin, Spectra of Hydrogen atom and its fine structure, Atoms in Electric & Magnetic Fields, Many electron atoms.	2	Ujjal Saren	
		CC10 Practical			

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		CC10 Practical			
		SEC B2: DC Generator, Transformer.	1	Ipsita Sen	
		SEC B2: AC motor, Measurements and faults.	1	Ananya Kumar Kundu	
6th	3 Years Honours (CBCS)	CC13 Th: Integrated Circuits, Number System.	1	Dr. Kalpana Santra (Maji)	
		CC13 Th: Digital Circuits, Implementation of different circuits, Data processing circuits, Sequential Circuits.	2	Sayantani Kar	
		CC13 Th: Registers and Counters, Computer Organization, Data Conversion.	1	Ipsita Sen	
		CC13 Practical			
		CC13 Practical			
		CC14 Th: Crystal Structure, Elementary Lattice Dynamics.	2	Dr. Kalpana Santra (Maji)	
		CC14 Th: Magnetic Properties of Matter, Dielectric Properties of Materials, Drude's theory, Elementary band theory, Superconductivity.	2	Abhedananda Bhattacharya	
		CC14 Practical			
		CC14 Practical			
		DSE A2 (b): Calculus of Variations	1	Dr. Bipan Dutta	
		DSE A2 (b): Small Oscillations, Rigid Body Motion, Nonlinear Dynamics	1	Ujjal Saren	
		DSE B2 (a): Electronic communication Analog Modulation.	1	Dr. Sannak Dutta Roy	
		DSE B2 (a): Digital Pulse Modulation, Introduction to Communication and Navigation systems.	1	Ujjal Saren	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER

ACADEMIC SESSION: 2020-2021

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years (CBCS)	CC1/GE1 Th: Mathematical Methods	1	US	
		CC1/GE1 Th: Introduction to Newtonian Mechanics, Rotational Motion	1	KS	
			8		
		CC1/GE1 Th: Central force and Gravitation, Oscillations	1	Abhedananda Bhattacharya	
		CC1/GE1 Th: Elasticity, Surface Tension	1	SK	
		CC1/GE1 Practical			
		CC1/GE1 Practical			
3rd	3 Years (CBCS)	CC3/GE3: Laws of Thermodynamics	1	SDR	
		CC3/GE3: Thermodynamical Potentials, Theory of Radiation, Statistical Mechanics.	1	US	
		CC3/GE3: Kinetic Theory of Gases.	1	Abhedananda	

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				Bhattacharya	
		CC3/GE3 Practical			
		CC3/GE3 Practical			
5th		DSE-A(1): Circuits and Network, Semiconductor Devices.	1	IS	
		DSE-A(1) – 3., 4., 4. Regulated Power Supply, Field Effect transistors.	2	SK	
		DSE-A(1) – 5., 6. Feedback Amplifiers, Operational Ampliers.	1	BD	
		SEC	1	IS	
		SEC	1	AKK	
		DSE-A(1) Practical			
		DSE-A(1) Practical			

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER

ACADEMIC SESSION: 2020-2021

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd		CC2/GE2 Th: Essential Vector Analysis, Electrostatics-Coulomb law, Electric Dipole Moment, Electromagnetic Induction, Electrodynamics	2	US	
		CC2/GE2 Th: Magnetism	1	ABh	
		CC2/GE2 Th: Electrostatics- Divergence of the Electrostatic field, Curl of the Electrostatic field	1	AK	
		CC2/GE2 Practical			
		CC2/GE2 Practical			
4th		CC4/GE4 Th: Accoustics, Superposition of vibrations.	1	KS	
		CC4/GE4 Th: Vibrations in String, Introduction to wave Optics.	1	IS	
		CC4/GE4 Th: Interference	1	SDR	
		CC4/GE4 Th: Diffraction, Polarization.	1	SK	
		SEC-	1	IS	
		SEC –	1	AK	

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		CC4/GE4 Practical			
		CC4/GE4 Practical			
6th		DSE B (1) Th: Integrated Circuits, Number System.	1	US	
		DSE B (1) Th: Digital Circuits.	1	BD	
		DSE B (1) Th: Data processing circuits, Sequential Circuits.	1	SK	
		DSE B(1) Th: Registers and Counters.	1	IS	
		DSE B (1) Practical			
		DSE B (1) Practical			

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER & Part - III

ACADEMIC SESSION: 2019-2020

HONOURS COURSE

Year/ Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years Honours (CBCS)	CC1 Th: Calculus-Recapitulation, Infinite Series, First and Second Order Differentiation	1	Dr. Bramhananda Bhattacharya	
		CC1 Th: Calculus of functions of more than one variable, Recapitulation of Vector Algebra, Vector Differentiation.	1	Sannak Dutta Roy	
		CC1 Th: Vector Integration, Orthogonal Curvilinear Coordinates	1	Debasmita Samanta	
		CC1 Th: Matrices	1	Sayantani Kar	
		CC2 Th: Fundamentals of Dynamics.	1	Ipsita Sen	
		CC2 Th: Work and Energy, Non-Inertial Systems	1	Dr. Kalpana Santra (Maji)	
		CC2 Th: Gravitation and Central Force Motion, Fluid Motion	1	Bipan Dutta	
		CC2 Th: Rotational Dynamics	1	Abhedananda Bhattacharya	
3rd	3 Years Honours (CBCS)	CC5 Th: Fourier Series, Some Special Integrals, Integrals Transform.	2	Dr. Kalpana Santra (Maji)	

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		CC5 Th: Frobenius Method and Special Functions	1	Debasmita Samanta	
		CC5 Th: Introduction to Probability, Partial Differential Equations.	1	Sannak Dutta Roy	
		CC6 Th: Introduction to Thermodynamic, Thermodynamic Potentials.	2	Sayantani Kar	
		CC6 Th: Kinetic Theory of Gases-Distribution of velocities, Molecular Collisions	1	Abhedananda Bhattacharya	
		CC6 Th: Kinetic Theory of Gases- Real Gases, Conduction of Heat.	1	Ananya Kumar Kundu	
		CC7 Th: Radiation and its Nature, Basic of Quantum Mechanics.	2	Debasmita Samanta	
		CC7 Th: Nuclear Structure	1	Dr. Bramhananda Bhattacharya	
		CC7 Th: Interaction with and within nucleus, Interaction with and within nucleus, Laser.	1	Bipan Dutta	
		SEC A-2: Fossil fuels and Alternate Sources of energy, Solar energy, Wind Energy harvesting, Ocean Energy	1	Ipsita Sen	
		SEC A-2: Geothermal Energy, Hydro Energy, Piezoelectric Energy harvesting, Electromagnetic Energy Harvesting, Fuel cell.	1	Ananya Kumar Kundu	
Part III	3 Years Honours (1+1+1 Regulation)	Paper V: Classical Mechanics II & Special Theory of Relativity	2	Dr. Kalpana Santra (Maji)	
		Paper V: Quantum Mech.II & Atomic Physics	2	Debasmita Samanta	
		Paper VI: Nuclear and Particle Physics I & Nuclear and Particle Physics II	2	Dr. Bramhananda Bhattacharya	
		Paper VI: Solid State Physics I & Solid State Physics II	2	Abhedananda Bhattacharya	
		Paper VIIA: Statistical Mechanics & Electromagnetic Theory	2	Bipan Dutta	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER & Part - III

ACADEMIC SESSION: 2019 -2020

HONOURS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd	3 Years Honours (CBCS)	CC3 Th: Dirac delta function and it's properties, Electrostatics, Dielectric properties of matter.	1	Ananya Kumar Kundu	
		CC3 Th: Method of Images, Electrostatic Energy.	1	Sannak Dutta Roy	
		CC3 Th: The Magnetostatic Field, Magnetic properties of matter.	1	Abhedananda Bhattacharya	
		CC3 Th: Electro-magnetic induction, Electrical circuits.	1	Bipan Dutta	
		CC3 Practical			
		CC3 Practical			
		CC4 Th: Oscillations, Superposition of Harmonic Oscillations, Wave motion.	1	Dr. Kalpana Santra (Maji)	
		CC4 Th: Superposition of Harmonic Waves, Wave optics.	1	Ipsita Sen	
		CC4 Th: Interference, Interferometers, Diffraction.	1	Debasmita Samanta	
		CC4 Th: Diffraction.	1	Sayantani Kar	
4th	3 Years Honours	CC8 Th: Complex Analysis.	2	Dr. Bipan Dutta	

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	(CBCS)				
		CC8 Th: Variational calculus in Physics.	1	Abhedananda Bhattacharya	
		CC8 Th: Special theory of Relativity.	1	Dr. Kalpana Santra (Maji)	
		CC9 Th: Circuits and Network, Semiconductor Diodes and application, Bipolar Junction transistors and biasing.	1	Dr. Sannak Dutta Roy	
		CC9 Th: Field Effect transistors, Regulated power supply, Multivibrator.	1	Ipsita Sen	
		CC9 Th: Amplifiers	1	Debasmita Samanta	
		CC9 Th: Feedback amplifiers and OPAMP, Oscillators.	1	Sayantani Kar	
		CC10 Th: Wavepacket description, General discussion of bound states in an arbitrary potential, Quantum mechanics of simple harmonic oscillator, Quantum theory of hydrogen-like atoms.	2	Ananya Kumar Kundu	
		CC10 Th: Generalized Angular Momenta and Spin, Spectra of Hydrogen atom and its fine structure, Atoms in Electric & Magnetic Fields, Many electron atoms.	2	Dr. Bramhananda Bhattacharya	
		SEC B2: DC Generator, Transformer.	1	Ipsita Sen	
		SEC B2: AC motor, Measurements and faults.	1	Ananya Kumar Kundu	
Part III	3 Years Honours (1+1+1 Regulation)	Paper V: Classical Mechanics II & Special Theory of Relativity	2	Dr. Kalpana Santra (Maji)	
		Paper V: Quantum Mech.II & Atomic Physics	2	Debasmita Samanta	
		Paper VI: Nuclear and Particle Physics I & Nuclear and Particle Physics II	2	Dr. Bramhananda Bhattacharya	

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		Paper VI: Solid State Physics I & Solid State Physics II	2	Abhedananda Bhattacharya	
		Paper VIIA: Statistical Mechanics & Electromagnetic Theory	2	Bipan Dutta	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER & Part - III

ACADEMIC SESSION: 2019-2020

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st	3 Years (CBCS)	CC1/GE1 Th: Mathematical Methods	1	Dr. Bramhananda Bhattacharya	
		CC1/GE1 Th: Introduction to Newtonian Mechanics, Rotational Motion	1	Dr. Kalpana Santra (Maji)	
		CC1/GE1 Th: Central force and Gravitation, Oscillations	1	Abhedananda Bhattacharya	
		CC1/GE1 Th: Elasticity, Surface Tension	1	Sayantani Kar	
3rd	3 Years (CBCS)	CC3/GE3: Laws of Thermodynamics	1	Sannak Dutta Roy	
		CC3/GE3: Thermodynamical Potentials, Theory of Radiation, Statistical Mechanics.	1	Debasmita Samanta	
		CC3/GE3: Kinetic Theory of Gases.	2	Abhedananda Bhattacharya	
Part - III	3 Years Honours (1+1+1 Regulation)	Paper IVA: Application of Thermodynamics	2	Ipsita Sen	
		Paper IVA: Energy Sources	2	Sayantani Kar	

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		Paper IVA: Electronics	2	Ipsita Sen	
		Paper IVA: Communications	2	Ananya Kumar Kundu	

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DEPARTMENT OF PHYSICS
EVEN SEMESTER & Part - III

ACADEMIC SESSION: 2019-2020

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd	3 Years (CBCS)	CC2/GE2 Th: Essential Vector Analysis, Electrostatics-Coulomb law, Electric Dipole Moment, Electromagnetic Induction, Electrodynamics	2	Dr. Bramhananda Bhattacharya	
		CC2/GE2 Th: Magnetism	1	Abhedananda Bhattacharya	
		CC2/GE2 Th: Electrostatics- Divergence of the Electrostatic field, Curl of the Electrostatic field	1	Ananya Kumar Kundu	
4th	3 Years (CBCS)	CC4/GE4 Th: Accoustics, Superposition of vibrations.	1	Dr. Kalpana Santra (Maji)	
		CC4/GE4 Th: Vibrations in String, Introduction to wave Optics.	1	Ipsita Sen	
		CC4/GE4 Th: Interference	1	Sannak Dutta Roy	
		CC4/GE4 Th: Diffraction, Polarization.	1	Sayantani Kar	
		SEC	1	Ipsita Sen	
		SEC	1	Ananya Kumar Kundu	
Part - III	3 Years Honours	Paper IVA: Application of Thermodynamics	2	Ipsita Sen	

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	(1+1+1 Regulation)				
		Paper IVA: Energy Sources	2	Sayantani Kar	
		Paper IVA: Electronics	2	Ipsita Sen	
		Paper IVA: Communications	2	Ananya Kumar Kundu	

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TEACHING PLAN
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ODD SEMESTER, PART – II & PART –III

ACADEMIC SESSION: 2018-2019

HONOURS COURSE

SEM/ Y	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
1st Sem	3 Years Honours (CBCS)	CC1 Th: Vector Algebra and Vector Calculus	2	Bipan Dutta	
		CC1 Th: Calculus	1	Dr. Bramhananda Bhattacharya	
		CC1 Th: Orthogonal Curvilinear Coordinates, Matrix	1	Ipsita Sen	
		CC2 Th: Fundamentals of Dynamics, Work and Energy, Non-Inertial Systems	1	Dr. Kalpana Santra (Maji)	
		CC2 Th: Gravitation and Central Force Motion, Fluid Motion	1	Sk. Sabyasachi	
		CC2 Th: Elasticity and Fluid Motion	1	Sayantani Kar	
		CC2 Th: Rotational Dynamics	1	Abhedananda Bhattacharya	
Part – II	3 Years Honours (1+1+1 Regulation)	Paper III: Electronics II	1	Bipan Dutta	
		Paper III: Electronics II	1	Debasmita Samanta	
		Paper III: Electricity and Magnetism	1	Abhedananda Bhattacharya	
		Paper III: Electrostatics	1	Dr. Bramhananda Bhattacharya	
		Paper III: Wave Optics	1	Swarup Ghosh	

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		Paper IVA: Quantum Mech.I	1	Dr. Kalpana Santra (Maji)	
		Paper IVA: Thermal Physics II	1	Sayantani Kar	
Part III	3 Years Honours (1+1+1 Regulation)	Paper V: Classical Mechanics II & Special Theory of Relativity	2	Dr. Kalpana Santra (Maji)	
		Paper V: Quantum Mech.II & Atomic Physics	2	Debasmita Samanta	
		Paper VI: Nuclear and Particle Physics I & Nuclear and Particle Physics II	2	Dr. Bramhananda Bhattacharya	
		Paper VI: Solid State Physics I & Solid State Physics II	1	Abhedananda Bhattacharya	
		Paper VIIA: Statistical Mechanics & Electromagnetic Theory	2	Bipan Dutta	

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DEPARTMENT OF PHYSICS
EVEN SEMESTER PART – II & PART –III

ACADEMIC SESSION: 2018-2019

HONOURS COURSE

SEM/ Y	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
2nd Sem	3 Years Honours (CBCS)	CC3 Th: Dielectric properties of matter, The magnetostatic field	1	Dr. Bramhananda Bhattacharya	
		CC3 Th: Electrostatic field	1	Sk. Sabyasachi	
		CC3 Th: Magnetic properties of matter, Electromagnetic induction	1	Abhedananda Bhattacharya	
		CC3 Th:	1	Bipan Dutta	
		CC4 Th: Oscillation to wave motion	1	Dr. Kalpana Santra (Maji)	
		CC4 Th: Velocity of waves, Superposition of harmonic wave	1	Sannak Dutta Roy	
		CC4 Th: Wave optics, Interference, Interferometer	1	Ipsita Sen	
		CC4 Th: Diffraction, Holography	1	Sayantani Kar	
Part – II	3 Years Honours (1+1+1 Regulation)	Paper III: Electronics II	1	Bipan Dutta	
		Paper III: Electronics II	1	Debasmita Samanta	
		Paper III: Electricity and Magnetism	2	Abhedananda	

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				Bhattacharya	
		Paper III: Electrostatics	1	Dr. Bramhananda Bhattacharya	
		Paper III: Wave Optics	1	Swarup Ghosh	
		Paper IVA: Quantum Mech.I	2	Dr. Kalpana Santra (Maji)	
		Paper IVA: Thermal Physics II	2	Sayantani Kar	
Part III	3 Years Honours (1+1+1 Regulation)	Paper V: Classical Mechanics II & Special Theory of Relativity	2	Dr. Kalpana Santra (Maji)	
		Paper V: Quantum Mech.II & Atomic Physics	2	Debasmita Samanta	
		Paper VI: Nuclear and Particle Physics I & Nuclear and Particle Physics II	1	Dr. Bramhananda Bhattacharya	
		Paper VI: Solid State Physics I & Solid State Physics II	1	Abhedananda Bhattacharya	
		Paper VIIA: Statistical Mechanics & Electromagnetic Theory	2	Bipan Dutta	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
ODD SEMESTER PART – II & PART –III

ACADEMIC SESSION: 2018-2019

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
SEM 1	3 Years (CBCS)	CC1/GE1 Th: Mathematical Methods, Laws of Motion	1	Dr. Kalpana Santra (Maji)	
		CC1/GE1 Th: Oscillations, Rotational Motion	1	Abhedananda Bhattacharya	
		CC1/GE1 Th: Elasticity, Surface Tension	1	Sayantani Kar	
		CC1/GE1 Th: Work and Energy, Gravitation	1	Sannak Dutta Roy	
Part – II	3 Years Honours (1+1+1 Regulation)	Paper IIIA: Modern Physics	2	Dr. Kalpana Santra (Maji)	
		Paper IIIA: Electronics	2	Bipan Dutta	
		Paper IIB: Electricity and magnetism	2	Dr. Bramhananda Bhattacharya	
		Paper IIIA: Physical optics	2	Ipsita Sen	
		Paper IIB: Electricity and magnetism	2	Sk. Sabyasachi	
Part – III	3 Years Honours (1+1+1	Paper IVA: Pump and Gauge	2	Sannak Dutta Roy	

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	Regulation)				
		Paper IVA: Energy	2	Ananya Kumar Kundu	
		Paper IVA: Electronics and Communication	2	Sayantani Kar	

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TEACHING PLAN
DEPARTMENT OF PHYSICS
EVEN SEMESTER
ACADEMIC SESSION: 2018-2019

GENERALS COURSE

Semester	Course	Paper	No. of Lectures Allotted per week	Assigned Teacher	Remarks (If any)
SEM 2		CC2/GE2 Th: Magnetism	1	Abhedananda Bhattacharya	
		CC2/GE2 Th: Linear Network and Maxwell equation	1	Sannak Dutta Roy	
		CC2/GE2 Th: Electrostatics, induction	1	Sayantani Kar	
Part – II	3 Years Honours (1+1+1 Regulation)	Paper IIIA: Modern Physics	2	Dr. Kalpana Santra (Maji)	
		Paper IIIA: Electronics	2	Bipan Dutta	
		Paper IIB: Electricity and magnetism	2	Dr. Bramhananda Bhattacharya	
		Paper IIIA: Physical optics	2	Ipsita Sen	
		Paper IIB: Electricity and magnetism	2	Sk. Sabyasachi	
Part – III	3 Years Honours (1+1+1 Regulation)	Paper IVA: Pump and Gauge	1	Sannak Dutta Roy	
		Paper IVA: Energy	1	Ananya Kumar Kundu	
		Paper IVA: Electronics and Communication	2	Sayantani Kar	

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ODD SEMESTER WORKLOAD, 2022-23

HONOURS

	1ST SEM	3RD SEM	5TH SEM
KS	CC2 – 1., 2., 4.	CC5 – 1., 3., 4., 5.	CC11 – 1., 2., 3.; CC12 – 1.
ABh	CC2 – 5. CC1 – 2. (c), (d).	CC6 – 2., 3.	CC12 – 2., 3., 4.
BD	CC2 – 3. , 6.	CC5 – 6.	CC11 – 5.
US	NIL	CC5 – 2.; CC7 – 1., 2.	CC11 – 4., 6.; CC12 – 5.
SDR	NIL	CC6 – 1., 4.	DSE A1(b) – 1. to 6.
IS	CC1 – 1., 2. (a), (b).	SEC	DSEB1(b) – 6.
SK	CC1 – 3.	NIL	DSEB1(b) – 1. to 5.
AK	NIL	CC7– 3., 4., 5. SEC	DSE A1(b) – 7., 8., 9.

	1ST SEM	3RD SEM	5TH SEM
KS	2	2	2; 1
ABh	1;1	2	2
BD	1	1	1
US	NIL	1; 2	1; 1
SDR	NIL	2	3
IS	2	1	1
SK	1	NIL	3
AK	NIL	2; 1	2

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	1ST SEM	3RD SEM	5TH SEM
KS	CC1 – 2., 3.	NIL	NIL
ABh	CC1 – 4., 5.	CC3 – 3.	NIL
BD	NIL	NIL	DSE-A(1) – 5., 6.
US	CC1 – 1.	CC3 – 2., 4., 5.	NIL
SDR	NIL	CC3 – 1.	NIL
IS	NIL	NIL	DSE-A(1) – 1., 2. SEC
SK	CC1 – 6., 7.	NIL	DSE-A(1) – 3., 4., 4.
AKK	NIL	NIL	SEC

	1ST SEM	3RD SEM	5TH SEM
KS	1	NIL	NIL
ABh	1	1	NIL
BD	NIL	NIL	1
US	1	2	NIL
SDR	NIL	1	NIL
IS	NIL	NIL	1; 1
SK	1	NIL	1
AK	NIL	NIL	1

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EVEN SEMESTER WORKLOAD, 2022-23

HONOURS

	2ND SEM	4TH SEM	6TH SEM
KS	CC4 - 1,2,3,4	CC8 - 3	CC14-1,2 DSE B2 - 1,2
ABh	CC3 - 4,5,6,7	CC8 - 2. CC9 - 4,5,6,8,9	CC14-2,3,4,5
BD		CC8 - 1. CC9 - 7	CC13 - 3
SDR	CC3 - 8,9. CC4 - 5,6	CC9 - 1,2,3	DSE A2 - 2,3,4
US		CC10 - 5,6,7,8	CC13 - 1,2. CC14 - 6,7 DSE A2 - 1,5,6
SK	CC4 - 7,8		CC13 - 4,5,6 DSE B2 - 3,5
IS		SEC – 1,2,3,4.	CC13 -7,8,9 DSE B2 - 4
AK	CC3 - 1,2,3	CC10 - 1,2,3,4 SEC -5,6,7,8.	

	2ND SEM	4TH SEM	6TH SEM
KS	2	2	1;1
ABh	2	1;2	2
BD		1;1	1
SDR	1;1	1	2
US		2	1;1;2
SK	1		1;2
IS		1	1;1
AK	1	2;1	

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E.M.Bypass, Baghajatin
Kolkata - 700 094

GENERAL

	2ND SEM	4TH SEM	6TH SEM
KS		CC4 - 1,2	
ABh	CC2 - 3		
BD			DSE B - 3
SDR		CC4 - 5	
US	CC2 - 1,2(a,b),4,5		DSE B - 1,2
SK		CC4 - 6,7	DSE B - 4,5
IS		CC4 - 3,4. SEC- 1,2,3,4.	DSE B - 6
AK	CC2 - 2(c,d)	SEC – 5,6,7,8.	

	2ND SEM	4TH SEM	6TH SEM
KS		1	
ABh	1		
BD			1
SDR		1	
US	2		1
SK		1	1
IS		1;1	1
AK	1	1	

HEAD
DEPT OF PHYSICS
Sammilani Mahavid[illegible]a
E.M. By P
K[illegible]

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Teachers' Name / Semester	Work Load Distribution of Semester I , III & V , 2022												
	1st Sem CEMA CBCS (Theory)	1st Sem CEMA CBCS (Practical)	1st Sem CEMG CBCS (Theory)	1st Sem CEMG CBCS (Practical)	3rd Sem CEMA CBCS (Theory)	3rd Sem CEMA CBCS (Practical)	3rd Sem CEMG CBCS (Theory)	3rd Sem CEMG CBCS (Practical)	5th Sem CEMA CBCS (Theory)	5th Sem CEMA CBCS (Practical)	5th Sem CEMG CBCS (Theory)	5th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	2	3	--	--	2	3	--	--	2(DSE)	3(DSE)	2(DSE)	3(DSE)	15
Dr. Chandan Kumar Jana													
Dr. Chittaranjan Chanda	1	--	--	--	1	3	--	--	--	3	--	3	8
Mr. Sumit Pal	1	--	1	3	2	--	1	3	1(DSE)	--	1(DSE)	--	12
Dr. Durba Ganguly	1	--	1	--	2	3	--	--	2	3	--	--	12
Dr. Senjuti Banik	2	2	1	3	2	--	--	--	3	--	--	--	13
Dr. Krishnendu Aich	1	--	--	--	2	--	1	3	2	3	--	--	12
Mr. Sandipan Mallik	1	3	1	--	2	3	2	--	1	--	--	--	13
Total Classes	9	8	4	6	13	12	4	6	11	12	3	6	94

Shefali Pal

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Teachers' Name / Semester	Work Load Distribution of Semester II , IV & VI , 2022												
	2nd Sem CEMA CBCS (Theory)	2nd Sem CEMA CBCS (Practical)	2nd Sem CEMG CBCS (Theory)	2nd Sem CEMG CBCS (Practical)	4th Sem CEMA CBCS (Theory)	4th Sem CEMA CBCS (Practical)	4th Sem CEMG CBCS (Theory)	4th Sem CEMG CBCS (Practical)	6th Sem CEMA CBCS (Theory)	6th Sem CEMA CBCS (Practical)	6th Sem CEMG CBCS (Theory)	6th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	2	3	--	--	1	--	--	--	2	3(DSE)+3	--	3(DSE)	17
Dr. Chittaranjan Chanda	1	--	--	--	1	3	1	--	1	3	--	--	9
Mr. Sumit Pal	1	1	--	--	1+ 1(SEC)	3	1+ 1(SEC)	4	1	--	--	--	13
Dr. Durba Ganguly	--	--	1	4	1	3	1	--	1+ 1(DSE)	3	--	--	15
Dr. Senjuti Banik	--	--	1	4	1	3	--	--	1	3	--	--	13
Dr. Krishnendu Aich	1	--	--	--	1	3	--	--	1(DSE)	3(DSE)+ 3(DSE)	1(DSE)	3(DSE)	12
Mr. Sandipan Mallik	1	3	--	--	1+ 1(SEC)	--	1(SEC)+ 1	4	1(DSE)+ 1	--	1(DSE)	--	13
Total Classes	6	7	2	8	9	15	6	8	10	21	2	6	100

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DEPT OF CHEMISTRY
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Work Load Distribution of Semester I , III & V , 2021
(Online & Offline Mode)

Teachers' Name / Semester	1st Sem CEMA CBCS (Theory)	1st Sem CEMA CBCS (Practical)	1st Sem CEMG CBCS (Theory)	1st Sem CEMG CBCS (Practical)	3rd Sem CEMA CBCS (Theory)	3rd Sem CEMA CBCS (Practical)	3rd Sem CEMG CBCS (Theory)	3rd Sem CEMG CBCS (Practical)	5th Sem CEMA CBCS (Theory)	5th Sem CEMA CBCS (Practical)	5th Sem CEMG CBCS (Theory)	5th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	2			3	2		1		1(DSE)	3(DSE)	1(DSE)	3(DSE)	12
Dr. Chittaranjan Chanda	2					3				3(DSE)		3(DSE)	08
Mr. Sumit Pal	1	3			1(SEC) +1	3			1(DSE)		1(DSE)+ 1(SEC)		12
Dr. Durba Ganguly	1		1		1	3	1	3	1				11
Dr. Senjuti Banik	1	3	1		1	3	1		2		1		13
Dr. Krishnendu Aich	1		1		1(SEC) +1	3		3	1	3	1(SEC)		14
Mr. Sandipan Mallik	1	3	1	3	1		1		3		1		14
Mr. Bidyapati Sahoo									1(DSE)				01
Total Classes	09	09	04	06	09	15	04	06	10	09	06	06	93

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Teachers' Name / Semester	Work Load Distribution of Semester II , IV & VI - 2021 (Online mode)												
	2nd Sem CEMA CBCS (Theory)	2nd Sem CEMA CBCS (Practical)	2nd Sem CEMG CBCS (Theory)	2nd Sem CEMG CBCS (Practical)	4th Sem CEMA CBCS (Theory)	4th Sem CEMA CBCS (Practical)	4th Sem CEMG CBCS (Theory)	4th Sem CEMG CBCS (Practical)	6th Sem CEMA CBCS (Theory)	6th Sem CEMA CBCS (Practical)	6th Sem CEMG CBCS (Theory)	6th Sem CEMG CBCS (Practical)	Total Classes
Dr. Shefali Pal	1	1	---	---	2	---	---	---	1	---	---	---	05
Mr. Sumit Pal	2	---	---	---	1	1	1	---	2	---	---	---	07
Dr. Durba Ganguly	---	---	1	---	1	---	1	---	3	1	---	---	07
Dr. Senjuti Banik	---	---	2	---	2	1	---	---	2	---	---	---	07
Dr. Krishnendu Aich	1	1	---	---	1 + 1 (SEC)	---	1 (SEC)	---	---	2 (DSE)	---	2 (DSE)	06
Mr. Sandipan Mallik	2	---	1	---	1 (SEC) + 1	1	1 (SEC) + 1	---	2 (DSE)	---	2 (DSE)	---	09
Total Classes	06	02	04	---	10	03	05	---	10	03	02	02	47

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Teachers' Name CBCS/(1+1+1)	Work Load Distribution of Semester I , III & 3rd Year – 2019 - 2020												
	1st Sem CEMA CBCS (Theory)	1st Sem CEMA CBCS (Practical)	1st Sem CEMG CBCS (Theory)	1st Sem CEMG CBCS (Practical)	3rd Sem CEMA CBCS (Theory)	3rd Sem CEMA CBCS (Practical)	3rd Sem CEMG CBCS (Theory)	3rd Sem CEMG CBCS (Practical)	3rd year Hons. (1+1+1) (Theory)	3rd year Hons. (1+1+1) (Practical)	3rd year Gen. (1+1+1) (Theory)	3rd year Gen. (1+1+1) (Practical)	Total Classes
Dr. Shefali Pal	1	3	---	---	2	3	---	---	2	---	2	---	13
Dr. Chittaranjan Chanda	1	---	1	---	1	3	1	---	1	---	1	3	12
Mr. Sumit Pal	1	---	1	3	1	---	1	3	1	---	---	---	11
Dr. Durba Ganguly	1	3	1	6	1	3	---	---	2	---	---	---	17
Dr. Senjuti Banik	---	3	1	---	1	---	1	---	2	6	---	---	14
Dr. Krishnendu Aich	1	3	---	---	---	3	1	---	1	3	---	---	12
Mr. Sandipan Mallik	1	3	---	3	---	3	---	---	1	6	---	---	17
Dr. Sudhangshu Sekhar Jana	1	---	---	---	1	3	---	---	1	6	---	---	12
Dr. Shantiranjan Pal Chowdhury	1	---	---	---	2	---	---	---	1	---	---	---	04
Total Classes	08	15	04	12	09	18	04	03	12	21	03	03	112

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Teachers' Name	Work Load Distribution of Semester II , 2nd year, 3rd year - (2019 - 2020)												
CBCS/(1+1+1)	2nd Sem CEMA CBCS (Theory)	2nd Sem CEMA CBCS (Practical)	2nd Sem CEMG CBCS (Theory)	2nd Sem CEMG CBCS (Practical)	2nd year Hons 1+1+1 (Theory)	2nd year Hons. 1+1+1 (Practical)	2nd year Gen 1+1+1 (Theory)	2nd year Gen 1+1+1 (Practical)	3rd year Hons 1+1+1 (Theory)	3rd year Hons 1+1+1 (Practical)	3rd year Gen 1+1+1 (Theory)	3rd year Gen 1+1+1 (Practical)	Total Classes
Dr. Shefali Pal	2	3	--	--	1	3	2	--	1	--	1	--	13
Dr. Chittaranjan Chanda	1	--	1	--	1	3	1	2	1	--	1	2	13
Mr. Sumit Pal	1	3	1	3	1	--	1	--	--	--	--	--	10
Dr. Durba Ganguly	--	--	2	9	1	--	1	--	2	2	--	2	19
Dr. Senjuti Banik	--	--	--	6	-	3	1	2	1	3	--	--	16
Dr. Krishnendu Aich	2	3	--	--	1	--	--	--	1	3	--	--	10
Dr. Sudhangshu Sekhar Jana	--	--	--	--	1	3	--	--	2	5	--	--	11
Dr. Shantiranjan Pal Chowdhury	--	--	--	--	1	--	--	--	1	--	--	--	2
Dr. Nitai Sinha	2	3	--	--	1	--	--	--	1	6	--	--	13
Total Classes	08	12	04	18	08	12	06	04	10	19	2	4	107

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Teachers' Name	Work Load Distribution of Semester I , 2nd year, 3rd year - (2018 - 2019)												
CBCS/(1+1+1)	1st Sem CEMA CBCS (Theory)	1st Sem CEMA CBCS (Practical)	1st Sem CEMG CBCS (Theory)	1st Sem CEMG CBCS (Practical)	2nd year Hons 1+1+1 (Theory)	2nd year Hons. 1+1+1 (Practical)	2nd year Gen 1+1+1 (Theory)	2nd year Gen 1+1+1 (Practical)	3rd year Hons 1+1+1 (Theory)	3rd year Hons 1+1+1 (Practical)	3rd year Gen 1+1+1 (Theory)	3rd year Gen 1+1+1 (Practical)	Total Classe
Dr. Shefali Pal	1	5	--	--	1	3	1	--	1	--	1	--	13
Dr. Chittaranjan Chanda	1	--	1	--	1	3	--	2	1	--	1	2	12
Mr. Sumit Pal	2	--	1	3	1	--	2	--	1	--	--	--	10
Dr. Durba Ganguly	--	2	--	--	1	--	1	--	2	2	--	--	08
Dr. Senjuti Banik	1	--	1	--	--	2	1	2	--	3	--	--	10
Dr. Krishnendu Aich	1	3	--	--	1	--	--	2	2	3	--	--	12
Dr. Sudhangshu Sekhar Jana	1	--	--	--	1	2	--	--	1	5	--	--	10
Dr. Shantiranjan Pal Chowdhury	1	--	--	--	--	--	--	--	1	--	--	--	02
Dr. Nitai Sinha	1	3	--	--	1	--	--	--	1	5	--	--	12
Dr. Mayukh Deb	--	--	1	3	1	--	3	2	2	--	1	--	13
Total Classes	10	13	04	06	08	10	08	08	12	18	03	02	102

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Teachers' Name (1+1+1)	Work Load Distribution of 1st year, 2nd year, 3rd year - (2018 - 2019)												
	1st year Hons 1+1+1 (Theory)	1st year Hons 1+1+1 (Practical)	1st year Gen 1+1+1 (Theory)	1st year Gen 1+1+1 (Practical)	2nd year Hons 1+1+1 (Theory)	2nd year Hons. 1+1+1 (Practical)	2nd year Gen 1+1+1 (Theory)	2nd year Gen 1+1+1 (Practical)	3rd year Hons 1+1+1 (Theory)	3rd year Hons 1+1+1 (Practical)	3rd year Gen 1+1+1 (Theory)	3rd year Gen 1+1+1 (Practical)	Total Classe
Dr. Shefali Pal	2	5	--	--	2	3	1	---	2	--	2	--	17
Dr. Chittaranjan Chanda	1	--	1	2	1	3	1	--	1	--	1	3	14
Mr. Sumit Pal	1	5	1	--	1	--	1	3	2	--	1	--	15
Mr. Chadan Naskar	1	--	--	3	1	3	1	3	2	5	--	--	19
Mr. Debasish Mondal	1	--	1	5	--	--	1	6	2	--	--	3	19
Mr. Subrata Baidya	2	--	--	4	2	--	--	3	2	5	--	--	18
Dr. Dipanwita Banerjee	1	--	1	3	1	--	--	3	2	5	--	--	16
Dr. Sudhangshu Sekhar Jana	2	--	--	--	2	3	--	--	2	5	--	--	14
Dr. Shantiranjan Pal Chowdhury	2	--	--	--	1	--	--	--	1	--	--	--	04
Total Classes	13	10	04	17	11	12	05	18	16	20	04	06	136

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21-22

HONS

	1ST SEM	3RD SEM	5TH SEM
KS	CC2 – 2. , 4.	CC5 – 1. , 3. , 4.	CC11 – 1. , 2. ; CC12 – 1. , 2. , 3.
BNB	CC1 – 1. a, b, c	CC7 – 3.	DSEB1(b) – 6.
ABh	CC2 – 5.	CC6– 3. a, b.	CC12 – 4. , 5.
BD	CC2 – 3. , 6.	CC7 – 4. , 5.	DSEA1(b) – 1
US	CC1 – 2. c, d	CC5 – 2. ; CC7 – 1. , 2.	CC11 – 4. , 5. , 6. ; DSEB1(b) – 4. , 5.
SDR	CC1 – 1. d, 2. a, b	CC5 – 5. , 6.	DSEA1(b) – 2. , 3. , 4. , 5. , 6. , 9.
IS	CC2 – 1.	SECA2 – 1 to 4	CC11 – 3. ; DSEB1(b) – 3.
SK	CC1 – 3.	CC6– 1. , 2.	DSEB1(b) – 1. , 2.
AK	NIL	CC6– 3. c, 4. ; SECA2 – 1 to 5	DSEA1(b) – 7. , 8.

	1ST SEM	3RD SEM	5TH SEM
KS	1	2	1 ; 2
BNB	1	1	2
ABh	1	1	2
BD	1	1	2
US	1	1 ; 2	2 ; 2
SDR	1	1	2
IS	1	1	1 ; 1
SK	1	2	1
AK	NIL	1 ; 1	2

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GEN

General

	1ST SEM	3RD SEM	5TH SEM
KS	CC1 – 2. , 3.	CC3 – 1 (a), (b) , 2	NIL
BNB	NIL	CC3 – 5.	NIL
ABh	NIL	CC3 – 3.	NIL
BD	CC1 – 1.	NIL	NIL
US	CC1 – 4. , 5.	CC3 – 1. (c), 4.	DSE-A(1) – 1.
SDR	CC1 – 6. , 7.	NIL	NIL
IS	NIL	NIL	DSE-A(1) – 2. , 3; SEC A-2 – 1 to 5.
SK	NIL	NIL	DSE-A(1) – 4. , 4.
AKK	NIL	NIL	DSE-A(1) – 5. , 6.; SEC A-2 – 6 to 9.

	1ST SEM	3RD SEM	5TH SEM
KS	1	1	NIL
BNB	NIL	1	NIL
ABh	NIL	1	NIL
BD	1	NIL	NIL
US	1	1	1
SDR	1	NIL	NIL
IS	NIL	NIL	1 ; 1
SK	NIL	NIL	1
AK	NIL	NIL	1 ; 1

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19-20

NAME	1ST SEMADV	3RD SEM ADV	3RD YEAR ADV	1ST YEAR GEN	3RD SEM GEN	3RD YEAR GEN
KS	Fundamental of Dynamics,	Fourier Series	Quantum Mechanics II, laser	Mathematical Methods, Laws of Motion.	Laws of Thermodynamics	NIL
ABh	Rotational Dynamics	Partial Differential Equations	Solid state Physics I, II	Oscillation, Rotational Motion.	NIL	Energy
BD	Vector Algebra and Vector Calculus		Atomic Physics	NIL	NIL	NIL
BNB	Calculus (a), (b)	Frobenius Method and Special Functions	Electromagnetic Theory, Fluid Mechanics, Central force.	NIL	Theory of Radiation	NIL
SDR	NIL	Some Special Integrals, Variational calculus in physics, Timers, Shift registers.	NIL	Work and Energy, Gravitation.	NIL	Pump & Gauge
DS	Gravitation and Central Force, Non-Inertia System	Introduction to Thermodynamics	Nuclear Physics I, II.	NIL	NIL	NIL
IS	Orthogonal Curvilinear Coordinates, Matrix	Data processing circuits, Circuits, Sequential Circuits. Basic Electricity Principles to Electric Motors	NIL	NIL	Thermodynamical Potentials, Kinetic Theory of Gases.	NIL
X2	Calculus (c) Work and Energy	Integrated Circuits, Digital Circuits, Boolean algebra. Solid-State Devices to Electrical Wiring	NIL	Elasticity, Surface tension, Viscosity	Statistical Mechanics	NIL
X3	Elasticity, Fluid Motion.	Thermodynamic Potentials, Kinetic Theory of gases, Conduction of Heat	Special Theory of Relativity	NIL	NIL	Communication, Electronics
X4	NIL	Counters (4 bits), Computer Organization	Classical Mechanics, Statistical Mechanics	NIL	NIL	NIL

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NAME	2nd Sem ADV	4th Sem ADV	2nd Sem GEN	4th Sem GEN
KS	Oscillation to wave motion (1,2,3)	Integral Transformation (2)	NIL	Wave (1,2,3)
ABh	Magnetic Field and properties of matter (6,7)	Semiconductor and Device (1,2)	Magnetism (3)	NIL
BD	Induction, Electrical circuit (8,9)	Complex number (1)	NIL	NIL
BNB	Dielectric properties of matter, Images, Energy (3,4,5)	Relativity (4) + Radio activity (Unit 4)	NIL	Sound and wave (4,5)
SDR	Superposition of harmonic wave, Wave Optics (4,5)	Nuclear Physics (Unit 3)	Induction, Electrodynamics (4,5)	NIL
US	Diffraction (8)	Probability (3) + Quantum theory (Unit 1& 2)	Vector (1)	NIL
IS	Interference, Interferometer (6,7)	BJT and FET (3,4) + SEC B (1,2,3)	NIL	NIL
SK	Dirac delta, Electrostatics (1,2)	Amplifier (a,b,c)	NIL	Interference(6,7)
AK	NIL	Amplifier (d,e,f,g) + SEC B (4,5,6)	Electrostatics (2)	Polarization (8,9,10)

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NAME	2nd Sem ADV	4th Sem ADV	6th Sem ADV
KS	CC4 – 1, 2, 3	CC8 – 3	CC14 – 1, 2; CC13 – 1, 2
ABh	CC3 – 6, 7	CC8 – 2	CC14 – 3, 4, 5, 6, 7.
BD	CC3 – 8, 9	CC8 – 1	DSEA2 – 1.
US	CC4 – 6, 7	CC9 – 6; CC10 – 5, 6, 7, 8.	DSEA2 – 2, 3, 4; DSEB2 – 4, 5.
SDR	CC3 – 4, 5.	CC9 – 1, 2, 3.	DSEB2 – 1, 2, 3.
IS	CC4 – 4, 5.	CC9 – 4, 5, 8; SECB2 – 1, 2.	CC13 – 7, 8, 9
SK	CC4 – 8.	CC9 –7, 9.	CC13 – 3, 4, 5, 6
AK	CC3 – 1, 2, 3.	CC10 – 1, 2, 3, 4; SECB2 –3, 4.	NIL

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NAME	2nd Sem GEN	4th Sem GEN	6th Sem GEN
KS	NIL	CC4 – 1, 2.	NIL
ABh	CC2 – 3.	NIL	DSEB1 – 3, 4.
BD	NIL	NIL	NIL
SDR	CC2 – 1.	NIL	DSEB1 – 1, 2.
US	CC2 – 2.	NIL	DSEB1 – 5, 6.
IS	NIL	CC4 – 4, 5.	SECB2 – 1, 2.
SK	NIL	CC4 – 6, 7.	SECB2 – 3, 4.
AK	CC2 – 4, 5.	CC4 – 3.	NIL

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ZOOLOGY

TEACHING PLAN (SUMMERISED)

2020-2021,2021-2022,2022-2023

(Lockdown / online mode and post lock down / online-offline mode)

HONOURS

Subject Code	Name of Paper	Allotted Teacher for theory	Allotted Teacher for Practical
PART I; SEM I			
CC 1	Non Chordata – I (Protists to Pseudocoelomates)	KB, DR, RC	SM, RC
CC 2	Molecular Biology	MD,	RC, MD
PART I; SEM II			
CC 3	Non Chordata – II (All Coelomate Phyla)	DR, SM, RC	DR
CC 4	Cell Biology	DR	MD,KB
PART II; SEM III			
CC 5	Chordata	DR,MD,KB	SM,RC
CC 6	Animal Physiology: Controlling & Co-ordinating System	MD,KB, SM	KB,MD
CC 7	Fundamentals of Biochemistry	RC,SM	DR
SEC-A (1/2)	Apiculture / Sericulture	SM,KB,RC	
PART II; SEM IV			
CC 8	Comparative Anatomy of Vertebrate	MD,KB,SM	SM
CC 9	Animal Physiology: Life sustaining system	Kb,RC,SM	KB
CC 10	Immunology	DR	DR
SEC- B(1/2)	Aquarium Fisheries	SM	
PART III; SEM V			
CC 11	Ecology	KB,SM,RC	RC, MD
CC 12	Principle of Genetics	MD	MD
DSE A(1/2)	Parasitology	DR	DR
DSE B (1/2)	Endocrinology	MD	DR
PART III; SEM VI			
CC 13	Developmental Biology	DR,KB	MD,DR
CC 14	Evolutionary Biology	DR	DR
DSE A (1/2)	Animal Biotechnology	DR	DR
DSE B (1/2)	Animal Behaviour & Chronology/Fish & Fisheries	KB /SM	KB/ SM

DR : Debashis Roy; KB : Kalyan Bhattacharya; MD : Mousumi Das ; RC : Rituparna Chatterjee

SM : Swastic Mukherjee

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TEACHING PLAN (SUMMERISED)

2020-2021,2021-2022,2022-2023

(Lockdown / online mode and post lock down / online-offline mode)

ZOOLOGY GENERAL

PART I; SEM I			
Subject Code	Name of Paper	Allotted Teacher for theory	Allotted Teacher for Practical
CC1/GE1	Animal Diversity	SM,RC	SM,RC
PART I; SEM II			
CC2/GE2	Comparative Anatomy & Developmental Biology	RC,KB,MD	SM,KB
PART II; SEM III			
CC 3/GE3	Physiology and Biochemistry	RC,SM	RC,SM
SEC-A (1)	Apiculture	NA	NA
PART II; SEM IV			
CC 4/GE4	Genetics and Evolutionary Biology	DR	DR
SEC- B(1)	Aquarium Fish Keeping	SM	NA
PART III; SEM V			
DSE A(1)	Applied Zoology	DR	DR
DSE B (1)	Aquatic biology	NA	NA
SEC-A (1)	Sericulture	SM, RC	NA
PART III; SEM VI			
DSE A (1)	Biology of Insect	NA	NA
DSE B (2)	Ecology & Wild life Biology	SM, MD	SM, MD
SEC-B (1)	Medical diagnosis	NA	NA

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SM : Swastic Mukherjee.

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2019-20 (July-Dec.)

PART – I HONOURS
SEM-I

			Teacher
CC1-1-TH	Non- Chordates I (Protista to Pseudocoelomate) Theory	Units-1, 2 (Metazoa), 5	D.R
		Units- 2(Protozoa), Unit 4	K.B
		Units-3,6	R.C
		Unit-7	A.P
CC1-1-P	Non- Chordates I Lab		K.B+D.R
CC1-2-TH	Molecular Biology	Units-1-3	A.P
		Units-4-8	M.D
CC1-2-P	Molecular Biology Lab		M.D

PART – I GENERAL
SEM-I

			Teacher
CC1-1-TH	Animal diversity Theory	Units-1-4	R.C
		Units- 10-13	K.B
		Units-14-16	D.R
		Unit-5-9	S.M
CC1-1-P	Animal diversity Lab		R.C+S.M

PART – II HONOURS
SEM-III

			Teacher
CC5-5-TH	Chordata Theory	Units-1-3	K.B
		Units- 4-6	R.C
		Units-7,8	D.R

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CC3-5-P	Chordata Lab		A.P+S.M
CC3-6-TH	Animal Physiology: Controlling & Co-ordinating system Theory	Units-1-3,6	M.D
		Units-4,5	K.B
CC3-6-P	Animal Physiology: Controlling & Co-ordinating system Lab		M.D
CC3-7-TH	Fundamental of Biochemistry Theory	1-3	R.C
		4,6	S.M
		5	K.B
CC3-7-P	Fundamental of Biochemistry Lab		D.R+R.C
SEC(A)-3-1-TH	Apiculture	1-3	A.P
		4,5	S..M

PART – II GENERAL
SEM-III

			Teacher
CC3-3-TH	Physiology and Biochemistry Theory	1-6	R.C
		7-10	K.B
CC3-3-P	Physiology and Biochemistry Lab		A.P+S.M

PART – III HONOURS

					Teacher
PAPER 5	Unit I		Molecular Biology	1-10	M.D
	Unit II	Group A	Parasitology and Microbiology	1-5	D.R
				6-8	K.B
		Group B	Immunology	1,2,3,9	D.R
				4,5,6,7,8	M.D
PAPER 6	Unit I		Integration Biology and Homeostasis	1	S.M
				2,3	R.C
	Unit II		Animal Biotechnology & Applied Zoology	1-3	S.M
				4	M.D
PAPER 7	Practical		Molecular biology, Parasitology and		D.R+K.B

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			Microbiology, Immunology, Histological techniques and staining methods, Adaptation		
PAPER 8	Practical		Instrumentation, Report on Environmental audit, Field work assessment, Biostatistics	Full syllabus	M.D

PART – III GENERAL

			Teacher
PAPER - IV	Group A	Applied Zoology	S.M
	Group B	Evolutionary Biology	
	Group C	Parasitology & Immunology	
	Group D	Laboratory course	A.P

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TEACHING PLAN
2019-20 (Jan.-June)

SEM II & SEM IV ZOOA & ZOOG

	CORE COURSE	TEACHER
2ND SEM (A) TH	CC4 CELL BIOLOGY, UNITS- 5 ,6, 7	M.D
2ND SEM (A) PR	CC2-4-P, UNITS- 1, 2, 3, 4	
4TH SEM (A) TH	CC10 IMMUNOLOGY, UNITS-5,6,7,8	
4TH SEM (A) PR	CC4 -10- P, UNITS-1, 2, 3	
4TH SEM (G) TH	CC4 GENETIS AND EVOLUTIONARY BIOLOGY, UNITS-3, 4	

	CORE COURSE	TEACHER
2ND SEM (A) TH	CC3 NON CHORDATES II, UNITS- 1, 2 ; CC4 CELL BIOLOGY,UNITS- 1, 2	D.R
2ND SEM (A) PR	NON CHORDATE-II, UNITS- 1, 2	
4TH SEM (A) TH	CC 10 IMMUNOLOGY, UNITS- 1, 2, 3, 4	
4TH SEM (A) PR	CC4-8-P COMPARATIVE ANATOMY OF VERTEBRATES, UNITS-1, 2, 3, 4	
4TH SEM (G) TH	CC4 GENETIS AND EVOLUTIONARY BIOLOGY, UNITS 5, 6, 7, 8	
4TH SEM (G) PR	CC4-4-P GENETIS AND EVOLUTIONARY BIOLOGY , UNITS-3,4	

	CORE COURSE	TEACHER
2ND SEM (A) TH	CC3 NON CHORDATES II,UNITS-3,4	K.B
2ND SEM (G) TH	CC2-COMARATIVE ANATOMY & DEVELOPMENTAL BIOLOGY, UNITS- 2,6,7	
2ND SEM (G) PR	COMARATIVE ANATOMY & DEVELOPMENTAL BIOLOGY, UNITS-3,4	
4TH SEM (A) TH	CC -8 COMPARATIVE ANATOMY OF VERTEBRATES, UNITS-2,5; CC 9 ANIMAL PHYSIOLOGY, UNITS-2,3; CC10 IMMUNOLOGY,UNIT-9	
4TH SEM (A) PR	CC4 -10 P UNITS-1-3	

	CORE COURSE	TEACHER
2ND SEM (A) TH	CC3 NON CHORDATES II, UNIT-5	R.C
2ND SEM (A) PR	NON CHORDATE-II, UNITS- 1, 2	
2ND SEM (G) TH	COMARATIVE ANATOMY & DEVELOPMENTAL BIOLOGY, UNIT 1,3,4,5	
2ND SEM (G)PR	COMARATIVE ANATOMY & DEVELOPMENTAL BIOLOGY, UNITS- 1,2	
4TH SEM(G) TH	CC4 GENETIS AND EVOLUTIONARY BIOLOGY, UNITS 1,2	
4TH SEM (A) TH	CC8 COMPARATIVE ANATOMY OF VERTEBRATES,UNITS-3,4 ; CC-9 ANIMAL	

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	PHYSIOLOGY, UNIT-1	
4TH SEM (A) PR	CC4-9-P ANIMAL PHYSIOLOGY, UNITS 1-6	

	CORE COURSE	TEACHER
2ND SEM (A) TH	CC3 NON CHORDATES II, UNITS-6,7; CC4 CELLBIOLOGY,UNIT-3, 4	S.M
4TH SEM (A) TH	CC8 COMPARATIVE ANATOMY OF VERTEBRATES-UNIT-1, CC9 ANIMAL PHYSIOLOGY, UNITS -5,6; SEC-B-4-1	
4TH SEM (A) PR	CC4-8-P COMPARATIVE ANATOMY OF VERTEBRATES, UNITS - UNITS-1, 2, 3, 4+ CC4-9-P ANIMAL PHYSIOLOGY- UNITS-4-6	
4THSEM (G) PR	CC4-4-P GENETIS AND EVOLUTIONARY BIOLOGY, UNITS-1,2	

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TEACHING PLAN
2018-19 (July-Dec.)

PART – I HONOURS
SEM-I

			Teacher
CC1-1-TH	Non- Chordates I (Protista to Pseudocoelomate) Theory	Units-1, 2 (Metazoa), 5	D.R
		Units- 2(Protozoa), Unit 4	K.B
		Units-3,6	R.C
		Unit-7	S.M
CC1-1-P	Non- Chordates I Lab		A.D+D.R
CC1-2-TH	Molecular Biology	Units-1-3, 6-8	M.D
		Units-4,5	S.M
CC1-2-P	Molecular Biology Lab		M.D+J.M

PART – I GENERAL
SEM-I

			Teacher
CC1-1-TH	Animal diversity Theory	Units-1-5	R.C
		Unit-6-8	K.B
		Units- 9-13	J.M
		Units-14-16	D.R
CC1-1-P	Animal diversity Lab		K.B+A.P

PART – II HONOURS

					Teacher
PAPER 3	Unit I	Group A	Systematics	1-9	D.R
		Group B	Evolutionary Biology & Adaptation	1-3,9,10,11	S.M
				4,5,6,7,8	K.B
		Group C	Animal Behaviour	1-6	K.B
	Unit II	Group A	Ecology	1-10	M.D
		Group B	Biodiversity and Conservation	1-3	S.M
				4,6,7,8	A.P

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				5,9	M.D
PAPER 4	Unit I	Group A	Animal physiology	1-3	R.C
				4-7	K.B
		Group B	Biochemistry	1-5	R.C
				6	K.B
				7	S.M
	Unit II	Practical	Ecological methods	1-4	M.D
			Systematics and Evolutionary Biology		R.C
			Animal Physiology and Biochemistry		D.R

PART – II GENERAL

			Teacher
PAPER II	Group A	Chordate	
	Group B	Ecology, Animal Behavior, Biodiversity and Wildlife	A.P+K.B
	Group C	Histology, Endocrinology, Animal Physiology & Biochemistry	A.P+J.M
PAPER III	Laboratory Course (all Groups)		J.M+S.M+A.D

PART – III HONOURS

					Teacher
PAPER 5	Unit I		Molecular Biology	1-10	M.D
	Unit II	Group A	Parasitology and Microbiology	1-5	D.R
				6-8	K.B
		Group B	Immunology	1,2,3,9	D.R
				4,5,6,7,8	M.D
PAPER 6	Unit I		Integration Biology and Homeostasis	1	S.M
				2,3	R.C
	Unit II		Animal Biotechnology & Applied Zoology	1-3	A.P
				4	M.D

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PAPER 7	**Practical**		**Molecular biology, Parasitology and Microbiology, Immunology, Histological techniques and staining methods, Adaptation**		**D.R+K.B**
PAPER 8	**Practical**		**Instrumentation, Report on Environmental audit, Field work assessment, Biostatistics**	**Full syllabus**	**M.D**

PART – III GENERAL

			Teacher
PAPER – IV	**Group A**	**Applied Zoology**	**R.C+A.P**
	Group B	**Evolutionary Biology**	**A.D**
	Group C	**Parasitology & Immunology**	**S.M**
	Group D	**Laboratory course**	**R.C**

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TEACHING PLAN
2018-19 (Jan.-June)

PART – I HONOURS
SEM-II

			Teacher
ZOOA-CC2-3-TH	Non-Chordate II (Coelomate Phyla) Theory	Units-1, 4, 6	R.C
		Unit-2	D.R
		Units-3	K.B
		Unit-5, 7	S.M
ZOOA-CC2-3-P	Non-Chordate II Lab		K.B+A.D
ZOOA-CC2-4-TH	Cell Biology Theory	Units-1, 3	A.P
		Unit-2	D.R
		Units-4-7	M.D
ZOOA-CC2-4-P	Cell Biology Lab		M.D+J.M

PART – I GENERAL
SEM-II

			Teacher
CC2-2-TH	Comparative Anatomy & Developmental Biology Theory	1-3	R.C
		4, 5, 7	A.P
		6	D.R
CC2-2-P	Comparative Anatomy & Developmental Biology Lab		D.R

PART – II HONOURS

					Teacher
PAPER	Unit I	Group A	Systematics	1-9	D.R
		Group B	Evolutionary Biology &	1-3,9,10,11	S.M

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			Adaptation	4,5,6,7,8	K.B
		Group C	Animal Behaviour	1-6	K.B
	Unit II	Group A	Ecology	1-10	M.D
		Group B	Biodiversity and Conservation	1-3	S.M
				4,6,7,8	A.P
				5,9	M.D
PAPER 4	Unit I	Group A	Animal physiology	1-3	R.C
				4-7	K.B
		Group B	Biochemistry	1-5	R.C
				6	K.B
				7	S.M
	Unit II	Practical	Ecological methods	1-4	M.D
			Systematics and Evolutionary Biology		R.C
			Animal Physiology and Biochemistry		D.R

PART – II GENERAL

			Teacher
PAPER II	Group A	Chordate	
	Group B	Ecology, Animal Behavior, Biodiversity and Wildlife	A.P+K.B
	Group C	Histology, Endocrinology, Animal Physiology & Biochemistry	A.P+J.M
PAPER III	Laboratory Course (all Groups)		J.M+S.M+A.D

PART – III HONOURS

					Teacher
PAPER 5	Unit I		Molecular Biology	1-10	M.D
	Unit II	Group A	Parasitology and Microbiology	1-5	D.R
				6-8	K.B
		Group B	Immunology	1,2,3,9	D.R
				4,5,6,7,8	M.D
PAPER 6	Unit I		Integration Biology and Homeostasis	1	S.M

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				2,3	R.C
	Unit II		Animal Biotechnology & Applied Zoology	1-3	A.P
				4	M.D
PAPER 7	Practical		Molecular biology, Parasitology and Microbiology, Immunology, Histological techniques and staining methods, Adaptation		D.R+K.B
PAPER 8	Practical		Instrumentation, Report on Environmental audit, Field work assessment, Biostatistics	Full syllabus	M.D

PART – III GENERAL

			Teacher
PAPER – IV	Group A	Applied Zoology	R.C+A.P
	Group B	Evolutionary Biology	A.D
	Group C	Parasitology & Immunology	S.M
	Group D	Laboratory course	R.C

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COMMERCE

SAMMILANI MAHAVIDYALAYA
DEPARTMENT OF COMMERCE
Lesson Plan

2022-2023

Semester I

GE 1.1 Chg Microeconomics I & Statistics

Module I: Microeconomics

Chapters	Teacher Assigned
Unit:I Demand and Consumer behaviour [L-15/Marks-15] Concept of demand, demand function, law of demand, derivation of individual and market demand curves, shifting of the demand curve; elasticity of demand. Consumer behaviour: Marshallian utility approach and Indifference Curve approach; utility maximization conditions . Income-Consumption Curve (ICC) and Price-Consumption Curve (PCC): Derivation of demand curve from PCC.	**AD**
Unit: II Production and Cost [L-10/Marks-10] Production function: Short-run and Long-run; Relation among Total Product, Average Product and Marginal Product, Law of returns to a variable factor, Law of Returns to Scale; Concepts of Iso-quant and iso-cost line; Conditions for optimization (graphical approach). Cost: Accounting and Economic Costs; Social and Private Costs; Short-run and Long-run Costs; Relation between Average and Marginal Costs; Determination of LAC curve from SAC curves, LMC.	**AD**
Unit: III Perfect Competition [L-15/Marks-15] Concept of Perfectly Competitive market: Assumptions, Profit maximization conditions; Related concepts of Total Revenue, Average Revenue and Marginal Revenue, Short-run and Longrun equilibrium of a firm; determination of short- run supply curve of a firm, measuring producer surplus under perfect competition, Stability analysis– Walrasian and Marshallian, demand supply analysis including impact of taxes and subsidy.	**AD**

Module II: Statistics

Chapters	Teacher Assigned

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Fundamentals: [8 L /8Marks] Definition of Statistics, Scope and limitation of Statistics,Attribute and variable,Primary and secondary data, Method of data collection, Tabulation of data, Graphs and charts, Frequency distribution, Diagrammatic presentation of frequency distribution.	?
Measures of Central Tendency: [8 L /8Marks] Meaning of central tendency, Common measures – mean (A.M., G.M., H.M.) median and mode, Partition values- quartiles, deciles and percentiles, Applications of different measures.	?
Measures of Dispersion: [8 L /8Marks] Meaning of dispersion,Common measure– range, quartile deviation, mean deviation and standard deviation; Relative measures of dispersion, Combined standard deviation, Applications of different measures.	?
Moments, Skewness and Kurtosis: [8 L /8-Marks] Different types of moments and their relationships, Meaning of skewness and kurtosis, Different measures of skewness, Measure of kurtosis, Applications of different measures.	?
Interpolation: Finite differences, Polynomial function, Newton's forward and backward interpolation formula, Lagrange's interpolation formula. **[8 L/8-Marks]**	?

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CC 1.1 Chg Business Law

Chapters	Teacher Assigned
Unit 1: The Indian Contract Act, 1872 [L 30 / Marks 30] a) Contract – meaning, characteristics and kinds, Essentials of a valid contract b) Offer and acceptance (Definition, Rules, Communication and Revocation of offer and acceptance) c) Consideration (Definition, Elements, Types, Rules), "No Consideration No Contract" and its exceptions; Capacity to Parties (Definition and Types) d) Consent, Free consent, Coercion, Undue Influence, Fraud, Misrepresentation, Mistake e) Legality of objects and Consideration f) Void and Voidable agreements – Definition, Types and Distinction g) Discharge of a contract – Modes of discharge, Breach and Remedies against breach of contract h) Specific Contracts - Contingent contracts, Quasi, Contract of Indemnity, Guarantee, Bailment, Pledges	**SKM**
Unit 2: The Sale of Goods Act, 1930 [L 10 / Marks 10] a) Contract of sale, meaning and difference between sale and agreement to sell b) Conditions and warranties c) Transfer of ownership in goods including sale by a non-owner d) Unpaid seller – meaning, rights of an unpaid seller against the goods and the buyer	**SKM**
Unit 3: Partnership Laws [L 20 / Marks 20] A) The Partnership Act, 1932 a. Definition – Partner, Partnership b) Nature and Characteristics of Partnership c) Types of Partners d) Registration of a Partnership Firms and consequences of non-registration e) Rights and Duties of Partners f) Dissolution of firms – meaning and grounds B) The Limited Liability Partnership Act, 2008 a) Definition b) Salient Features of LLP c) Advantages and disadvantages of LLP d) Differences between: LLP and Partnership, LLP and Company e) Incorporation of LLP	**SKM**

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Unit 4: The Negotiable Instruments Act 1881 [L 10 / Marks 10] a) Definition, Features, Types, Parties of Negotiable Instruments: Promissory Note, bill of exchange, Cheque (Definition and Types) b) Endorsement: Types of Endorsement c) Holder and Holder in Due Course, Privileges of Holder in Due Course. d) Dishonour of Negotiable Instruments: Modes, Consequences, Notice of Dishonour; Noting and Protesting e) Discharge of Negotiable Instruments: Meaning and Mode	**SS**
Unit 5: Consumers Protection Act, 1986 [L 10 / Marks 10] a) Objectives and features of Consumers Protection Act b) Definitions – Complainant, Complaint, Consumer, Consumer Dispute, Defect, Deficiency, District Forum, Person c) Unfair trade practices d) Consumer Protection Council (Central, State and District – their constitutions and objectives) e) Consumer Dispute Redressal Agencies: Composition and jurisdiction of District forum, State Commission and National Commission	**SS**

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CC 1.2 Chg Principles of Management

Chapters	Teacher Assigned
Unit-1: Introduction: [L: 16 / Marks: 16] Management-definition, importance, functions, nature-as profession, science and art, universality of management; levels of management; managerial tasks and skills. Different Schools of Thoughts: Classical School-contributions of Taylor and Henri Fayol; Neo-classical school-Human Relations approach and Behavioral Science Approach; Modern School; System approach and Contingency approach.	**OB**
Unit-2: Planning: [L: 16 / Marks: 16] Concept, importance, steps, types, premises, barriers to effective planning and remedial measures; strategic planning-concept forecasting –concept, techniques.	**OB**
Unit-3: Organizing: [L: 16 / Marks: 16] Concept, importance, principles, different organization models-line and staff; Functional; Departmentation-need, basis, principles, Delegation of Authority-elements, steps barriers; Centralization and Decentralization of Authority; Span of Management; concept and determining factors.	**SS**
Unit-4: Directing and Staffing: [L: 16 / Marks: 16] Directing: concepts, importance of directing, Leadership: Concept, importance, types, leadership traits, Tannenbaum & Schmidt's Model and Blake & Mouton's Model. Staffing: concepts, importance	**SS**
Unit- 5: Motivation, Co-ordination and Control: [L: 16 / Marks: 16] Motivation: Concept, importance, importance of need theory, and contributions of McGregor, Maslow, Herzberg. Coordination: concepts, importance, principles and implementation techniques. Control: concepts, importance and tools of control.	**SS**

CC 1.1 Ch Financial Accounting - I

Chapters	Teacher Assigned

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Introduction [L 5/Marks 5] • Nature of accounting; Users of accounting information; Qualitative characteristics of accounting information. • Double entry book keeping system – Basic accounting equation, meaning of assets, liabilities, equity, revenue and expenses. Accounting Cycle - Recording of transaction: Journal, Ledger and preparation of Trial Balance. • Bases of accounting; cash basis and accrual basis. • Basic concepts and conventions: entity, money measurement, going concern, cost, realisation, accruals, periodicity, consistency, prudence (conservatism), materiality, matching and full disclosures.	**SKM**
Concepts for determination of business income [L 15/Marks 15] • Revenue recognition: Meaning of revenue; objective; timing of recognition. Recognition of expenses. • Inventories: meaning. Significance of inventory valuation. Lower of cost or market rule; Inventory ascertainment and reconciliation • The nature of depreciation. The accounting concept of depreciation. Factors in the measurement of depreciation. Methods of computing depreciation: straight line method and diminishing balance method; Disposal of depreciable assets; change in estimate and method of charging depreciation. Accounting for depreciation: Asset-depreciation, Asset-provision. • Reserves and provisions: Meaning; Objective; Types & Accounting • Capital and revenue expenditures and receipts: general introduction only. • Adjustment and rectification	**SKM**
Introduction to Accounting Standard Financial accounting standards: [L 5/Marks 5] concept, benefits, procedure for issuing accounting standards in India. Need for a global standard, IFRS (concept only)	**OB**
Introduction to Accounting Theory [L 5/Marks 5] Concept of accounting theory; relation with practice; GAAP; Capital – capital maintenance concepts; Limitations of Historic Cost accounting; Introduction to Fair Value accounting	**SM & UG**
Final accounts of Trading Concern [L 15/Marks 15] Preparation of financial statements: of sole proprietorship business entities from a trial balance – Manufacturing, Trading, P/L A/c and Balance Sheet	**SM**
Financial statements from Incomplete records and of NPO [L 12/Marks 10] Preparation of financial statements: a) from incomplete records b) of non-profit organisation	**SM**

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Accounting for special sales transaction [L 9/Marks 10] • Consignment: Basic features; difference with sales. Recording in the books of Consignor – at cost & at invoice price, Valuation of unsold stock; Ordinary commission. Treatment and valuation of abnormal & normal loss. Special commission; Del credere commission (with and without bad debt) - use of Consignment Debtors A/C. Recording in the books of Consignee • Accounting for sale on approval	**SM**
Sectional and Self balancing ledger [L 9/Marks 10] • Concept of sectional balancing, preparation of control accounts. Self balancing Ledger: advantages; Recording process; preparation of Adjustment accounts.	**UG**
Insurance claim for loss of stock and for loss of profit [L 5/Marks 5] • Loss of stock: Physical & ownership concept; concept of under-insurance and average clause; computation of claim – with price change; consideration of unusual selling line; price reduction etc. • Loss of profit: Concept – insured & uninsured standing charges, GP rate, short sales and increased cost of working, average clause and computation of claim (simple type)	**UG**

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CC 1.1 Cg Financial Accounting - I

Chapters	Teacher Assigned
Introduction [L 5/Marks 5] • Nature of accounting; Users of accounting information; Qualitative characteristics of accounting information. • Double entry book keeping system – Basic accounting equation, meaning of assets, liabilities, equity, revenue and expenses. Accounting Cycle - Recording of transaction: Journal, Ledger and preparation of Trial Balance. • Bases of accounting; cash basis and accrual basis. • Basic concepts and conventions: entity, money measurement, going concern, cost, realisation, accruals, periodicity, consistency, prudence (conservatism), materiality, matching and full disclosures.	**SKM**
Concepts for determination of business income [L 15/Marks 15] • Revenue recognition: Meaning of revenue; objective; timing of recognition. Recognition of expenses. • Inventories: meaning. Significance of inventory valuation. Lower of cost or market rule; Inventory ascertainment and reconciliation • The nature of depreciation. The accounting concept of depreciation. Factors in the measurement of depreciation. Methods of computing depreciation: straight line method and diminishing balance method; Disposal of depreciable assets; change in estimate and method of charging depreciation. Accounting for depreciation: Asset-depreciation, Asset-provision. • Reserves and provisions: Meaning; Objective; Types & Accounting • Capital and revenue expenditures and receipts: general introduction only. • Adjustment and rectification	**SKM**
Introduction to Accounting Standard Financial accounting standards: [L 5/Marks 5] concept, benefits, procedure for issuing accounting standards in India. Need for a global standard, IFRS (concept only)	**OB**
Introduction to Accounting Theory [L 5/Marks 5] Concept of accounting theory; relation with practice; GAAP; Capital – capital maintenance concepts; Limitations of Historic Cost accounting; Introduction to Fair Value accounting	**SM & UG**
Final accounts of Trading Concern [L 15/Marks 15] Preparation of financial statements: of sole proprietorship business entities from a trial balance – Manufacturing, Trading, P/L A/c and Balance Sheet	**SM**

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Financial statements from Incomplete records and of NPO [L 10/Marks 12] Preparation of financial statements: a) from incomplete records b) of non-profit organisation	**SM**
Accounting for special sales transaction [L 10/Marks 9] • Consignment: Basic features; difference with sales. Recording in the books of Consignor – at cost & at invoice price, Valuation of unsold stock; Ordinary commission. Treatment and valuation of abnormal & normal loss. Special commission; Del credere commission (with and without bad debt) - use of Consignment Debtors A/C. Recording in the books of Consignee • Accounting for sale on approval	**SM**
Sectional and Self balancing ledger [L 10/Marks 9] • Concept of sectional balancing, preparation of control accounts. Self balancing Ledger: advantages; Recording process; preparation of Adjustment accounts.	**UG**
Insurance claim for loss of stock and for loss of profit [L 5/Marks 7] • Loss of stock: Physical & ownership concept; concept of under-insurance and average clause; computation of claim – with price change; consideration of unusual selling line; price reduction etc. • Loss of profit: Concept – insured & uninsured standing charges, GP rate, short sales and increased cost of working, average clause and computation of claim (simple type)	**UG**

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Semester II

GE 2.1 Chg e-Commerce & Business Communication (50+50)

Module I: e-Commerce

Chapters	Teacher Assigned
Unit 1: Introduction [10 Marks, Class: 10] E-Commerce-meaning, nature, concepts, types; e-commerce business models B2B [concept, major activities, types of B to B market (independent, buyer oriented, supplier oriented, emarket place)], B2C [portals, e-tailer, content provider, transaction broker, real life examples of B2C], C2C, C2B, etc.; forces behind e-commerce, e-Governance [meaning, types, significance, real life examples]	KS
Unit 2: E-CRM and SCM [8 Marks, Class: 8] E-CRM-definition, features, goals of E-CRM business framework, phases of E-CRM, types of E-CRM, Functional components of E-CRM, strategies for E-CRM solutions; SCM-definition, features, types of supply chain	KS
Unit 3: Digital Payment [8 Marks, Class: 8] Methods of e-payments [Debit Card, Credit Card, Smart Cards, e-Money], electronic or digital wallet, digital signature (procedures, working and legal provisions), payment gateways [Core Banking Solution or CBS, Mobile Payment, UPI, NCPI, International Payments], Online banking [meaning, concepts, importance, electronic fund transfer, automated clearing house, automated ledger posting], risks involved in e-payments	KS
Unit 4: ERP [8 Marks, Class: 8] Definition, features, major characteristics, levels of ERP, benefits of ERP, enterprise potential of ERP, modules of ERP, phases of ERP implementation, limitations of ERP	KS
Unit 5: New Trends in E-Commerce [6 Marks, Class: 6] Social Commerce-concept, definition, features; Digital Marketing-definition, objectives, methods, limitations; Advertisement in Social Media-objectives, advantages and disadvantages, procedures	KS

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Module II:
Business Communication

Chapters	Teacher Assigned
Unit 1: Introduction [8 Marks, Class: 8] Definition, objectives, importance, elements, process, forms, models, principles of effective communication, barriers to communication and remedial measures, role of communication in conflict resolution	**SS**
Unit 2: Types of Communication [6 Marks, Class: 6] Formal and informal communication, Grapevine, Characteristics of corporate communication, Characteristics of corporate communication, Communication network	**SS**
Unit 3: Tools of Communication [6 Marks, Class: 6] Emergence of communication technology, Modern Forms of communication, Fax, E-mail, Video Conferencing	**SS**
Unit 4: Drafting [20 Marks, Class: 20] Notice, Circular, Resolution & Minutes, Report, CV writing, Business letter writing- Offer letter, Quotation, Status enquiry, Confirmation, Execution, Refusal and cancellation of order, Recommendation, Credit collection, Claim, Bank loan	**SS**

CC2.1 Chg Company Law

Chapters	Teacher Assigned
Unit 1: INTRODUCTION TO COMPANY [No of classes 16 / Marks 16] Meaning and Definition – Features – High Lights of Companies Act 2013 - Body Corporate, Kinds of Companies (Concept, Definition and Features) – One Person Company, Private Company, Public Company, Company limited by Guarantee, Company limited by Shares, Holding Company, Subsidiary Company, Government Company, Associate Company, Small Company, Foreign Company, Listed Company, Dormant company , Lifting of corporate veil	**SKM**

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Unit 2: FORMATION OF A COMPANY [No of classes 16 / Marks 16] Steps in formation of a Company, Promotion Stage, Meaning of Promoter, Position of Promoter & Functions of Promoter, Incorporation Stage – Meaning, Contents, Forms of Memorandum of Association & Articles of Association and its alteration, Distinction between Memorandum of Association and Articles of Association, Doctrines of constructive notice and Indoor management, Certificate of Incorporation, Subscription Stage – Meaning & contents of Prospectus, Types, Misstatement in prospectus and its consequences.	**SKM**
Unit 3: COMPANY ADMINISTRATION [No of classes 16 / Marks 16] Director (Concept and Definition), DIN, Qualification, Disqualification, Appointment, Position, Rights, Duties, Power, Resignation, Liabilities, Removal and Resignation of director. Key Managerial Personnel (Definition, Appointment and Qualifications) – Managing Director, Whole time Directors, the Companies Secretary, Chief Financial Officer, Resident Director, Independent Director, Women director	**SKM**
Unit 4: SHARE CAPITAL & DEBENTURE [No of classes 16 / Marks 16] Share, Share Capital - Types and Definition, Allotment and Forfeiture, Calls on Shares, ESOP, Buyback, Sweat Equity, Bonus, Right, Capital Reduction, Share Certificate, D-mat System, Transfer and Transmission, Redemption of Preference Shares, Debenture – Definition, Types, Rules Regarding Issue of Debenture	**SS**
Unit 5: CORPORATE MEETINGS [No of classes 16 / Marks 16] Corporate Meetings - Shareholder and Board, Types of Meetings – Annual General Meeting Extraordinary General meeting, Minutes of Proceedings of General Meeting, Meeting of BOD and other meetings (Section 118), Requisite of Valid Meeting- Notice, Agenda, Chairman, Quorum, Proxy, Resolutions, Minutes, Postal Ballot, E- voting, Video Conferencing, Board Meetings and Resolutions	**SS**

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CC 2.1Ch COST AND MANAGEMENT ACCOUNTING – I

Chapters	Teacher Assigned
Introduction [L 6/Marks 10] • Definition of Costing, Objectives of Cost Accounting; Management Accounting and difference with Cost Accounting; Installing a Cost Accounting System, Essentials of good Cost Accounting System. • Cost concepts, terms and classification of costs: Cost, Cost object, Cost units and Cost Centres, Types of costs, classification of costs - Direct - Indirect, Elementwise, Functionwise, Behaviourwise, Sunk Cost, opportunity Cost. Costing Methods and Techniques (introduction only).	**SM & UG**
Material Costs [L 10/Marks 10] • Purchase of materials: Organisation, purchase procedure, documentation, determination of material purchase costs. • Storage of materials : Need for storage, location and types, functions of a storekeeper, requisition, receipt, issue and transfer of materials, storage record, accounting for materials cost. • Materials control : Organisation; Tools: Just -in -Time Purchase; various stock levels, Economic Ordering Quantity and ABC Analysis; Periodic Inventory, Perpetual Inventory, Physical verification; Discrepancies in stock and their treatment. • Methods of Pricing Material Issues: FIFO, LIFO, and Weighted Average. • Treatment of Normal and Abnormal Loss of Materials	**AM**
Employee Cost and Incentive Systems [L 12/Marks 10] • Introduction, Recording labour cost: Attendance and payroll procedures (Time -keeping, Time -Booking, Payroll procedure, Payment of wages -Piece rate, differential piece rate, time rate); Idle time (causes and treatment in Cost Accounting), Overtime (its effect and treatment in Cost Accounting), Labour turnover (Causes, impact and methods of calculating labour turnover). • Main Principles for sound system of wage incentive schemeslabour utilisation; System of Wage Payment and Incentives(Halsey, Halsey -weir, Rowan and Emerson • System of Incentive Schemes for Indirect Workers; Component of wages cost for costing purpose.	**UG**

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Overhead and Cost Statement Overhead [L 20/Marks 20] • Introduction: Definition, Classification of Overhead - Functional and Behavioural. • Manufacturing Overheads: Allocation and apportionment of Overhead; Absorption of Overhead: various methods and their application; Treatment of under absorption/over absorption of overheads	**SM**
Cost Book - keeping Cost Book -keeping [L 8/Marks 10] • Non -Integrated System: Meaning & Features; Ledgers Maintained; Accounts prepared; General/Cost Ledger Adjustment Account; Meaning of Closing Balance in Various Accounts; Disadvantages. • Reconciliation: Need for reconciliation; Items causing differences between Cost and Financial Profits and their reconciliation	**AM**
Costing Methods [L 24/Marks 20] • Job Costing (Job cost cards and databases, Collecting direct costs of each job, Attributing overhead costs to jobs, Applications of job costing). Batch Costing • Contract Costing – Progress payments, Retention money, Escalation clause, Contract accounts, Accounting for material, Accounting for plant used in a contract, Contract Profit and Balance sheet entries. • Service Costing and Output CostingIntroduction; Motor Transport Costing only • Process Costing: Meaning, Features, Process vs Job Costing, Principles of cost ascertainment for Materials, Labour & Overhead; Normal loss, Abnormal loss and gain and preparation of process accounts. Inter-process profit (simple cases). Valuation of WIP and Equivalent units (excluding intermediary process)	**SM & UG**

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CC 2.2 ChgMarketing Management and Human Resource Management

Module I Marketing Management

Chapters	Teacher Assigned
Unit 1: Introduction: [No. of classes: 8 / Marks: 8] Nature, scope and importance of marketing; Selling vs Marketing; Marketing mix, Marketing environment: concept, importance, and components (Economic, Demographic, Technological, Natural, Socio-Cultural and Legal).	**OB**
Unit 2: Consumer Behaviour and Market segmentation: [No. of classes: 8 / Marks: 8] Consumer Behaviour: Nature and Importance, Factors influencing consumer buying behaviour. Market segmentation: concept, importance and bases; Product differentiation vs. market segmentation.	**OB**
Unit 3: Product: [No. of classes: 8 / Marks: 8] Concept and importance, Product classifications; Concept of product mix; Branding, packaging and labeling; Product life-cycle; New Product Development Process.	**OB**
Unit 4: Pricing, Distribution Channels and Physical Distribution [No. of classes: 8 / Marks: 8] Pricing: Significance. Factors affecting price of a product. Pricing policies and strategies. Distribution Channels and Physical Distribution: Channels of distribution - meaning and importance; Types of distribution channels; Factors affecting choice of distribution channel.	**SS**
Unit 5: Promotion and Recent developments in marketing:[No. of classes: 8 / Marks: 8] Promotion: Nature and importance of promotion; Communication process; Types of promotion: advertising, personal selling, public relations & sales promotion, and their distinctive characteristics. Recent developments in marketing: Social Marketing, online marketing, direct marketing, services marketing, green marketing, Rural marketing; Consumerism.	**SS**

Module II Human Resource Management

Chapters	Teacher Assigned

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Unit 1: Nature and Scope [No. of classes: 8 / Marks: 8] Concept and meaning of HR, Understanding the Nature and Scope of HRM, Functions and importance	**UG**
Unit 2: Human Resource Planning [No. of classes: 8 / Marks: 8] Definition, Need and Features of Human Resource Planning, factors affecting Human Resource Planning	**UG**
Unit 3: Recruitment and Selection [No. of classes: 8 / Marks: 8] Definition of Recruitment, Source, need and importance of Recruitment, Recruitment Policy – process – sources of Recruitment Definition of Selection, Steps in selection	**UG**
Unit 4: Training and Development [No. of classes: 8 / Marks: 8] Training and Development Meaning and purpose of training, Benefits of training to organisation and employees -Training methods.	**UG**
Unit 5: Job Evaluation and Performance Appraisal [No. of classes: 8 / Marks: 8] Job evaluation - objectives, scope, method, Job analysis, Job description, Job Specification - basic concept and significance, Performance Appraisal – Concept	**UG**

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CC 2.1Cg COST AND MANAGEMENT ACCOUNTING – I

Chapters	Teacher Assigned
Introduction [L 6/Marks 10] • Definition of Costing, Objectives of Cost Accounting; Management Accounting and difference with Cost Accounting; Installing a Cost Accounting System, Essentials of good Cost Accounting System. • Cost concepts, terms and classification of costs: Cost, Cost object, Cost units and Cost Centres, Types of costs, classification of costs - Direct - Indirect, Elementwise, Functionwise, Behaviourwise, Sunk Cost, opportunity Cost. Costing Methods and Techniques (introduction only).	**SM & UG**
Material Costs [L 10/Marks 10] • Purchase of materials: Organisation, purchase procedure, documentation, determination of material purchase costs. • Storage of materials : Need for storage, location and types, functions of a storekeeper, requisition, receipt, issue and transfer of materials, storage record, accounting for materials cost. • Materials control : Organisation; Tools: Just -in -Time Purchase; various stock levels, Economic Ordering Quantity and ABC Analysis; Periodic Inventory, Perpetual Inventory, Physical verification; Discrepancies in stock and their treatment. • Methods of Pricing Material Issues: FIFO, LIFO, and Weighted Average. • Treatment of Normal and Abnormal Loss of Materials	**AM**
Employee Cost and Incentive Systems [L 12/Marks 10] • Introduction, Recording labour cost: Attendance and payroll procedures (Time -keeping, Time -Booking, Payroll procedure, Payment of wages -Piece rate, differential piece rate, time rate); Idle time (causes and treatment in Cost Accounting), Overtime (its effect and treatment in Cost Accounting), Labour turnover (Causes, impact and methods of calculating labour turnover). • Main Principles for sound system of wage incentive schemeslabour utilisation; System of Wage Payment and Incentives(Halsey, Halsey -weir, Rowan and Emerson • System of Incentive Schemes for Indirect Workers; Component of wages cost for costing purpose.	**UG**

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Overhead and Cost Statement Overhead [L 20/Marks 20] • Introduction: Definition, Classification of Overhead - Functional and Behavioural. • Manufacturing Overheads: Allocation and apportionment of Overhead; Absorption of Overhead: various methods and their application; Treatment of under absorption/over absorption of overheads. • Administration and Selling & Distribution Overheads and their charging: an introduction only • Preparation of Cost Sheet and estimation	**SM**
Cost Book - keeping Cost Book -keeping [L 8/Marks 10] • Non -Integrated System: Meaning & Features; Ledgers Maintained; Accounts prepared; General/Cost Ledger Adjustment Account; Meaning of Closing Balance in Various Accounts; Disadvantages. • Reconciliation: Need for reconciliation; Items causing differences between Cost and Financial Profits and their reconciliation	**AM**
Costing Methods [L 24/Marks 20] • Job Costing (Job cost cards and databases, Collecting direct costs of each job, Attributing overhead costs to jobs, Applications of job costing). Batch Costing • Contract Costing – Progress payments, Retention money, Escalation clause, Contract accounts, Accounting for material, Accounting for plant used in a contract, Contract Profit and Balance sheet entries. • Service Costing and Output CostingIntroduction; Motor Transport Costing only • Process Costing: Meaning, Features, Process vs Job Costing, Principles of cost ascertainment for Materials, Labour & Overhead; Normal loss, Abnormal loss and gain and preparation of process accounts. Inter-process profit (simple cases). Valuation of WIP and Equivalent units (excluding intermediary process)	**SM & UG**

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Semester III

SEC 3.1 Chg Information Technology & Its Application in Business Module I Theory -50 marks

Chapters	Teacher Assigned
Unit1: Information Technology and Business [8 Marks, Class: 8] Concepts of data, information and computer based information system, impact of information technology on business [business data processing, intra- organizational and inter-organizational communication by using network technology, business process outsourcing and knowledge process outsourcing], types of Information System- Transaction Processing System (TPS), Management Information System (MIS), Decision Support System (DSS), Knowledge Management System (KMS) and their implementation at managerial levels [operational, tactical and strategic]	**KS**
Unit 2: Data Organization and Data Base Management System [10 Marks, Class: 10] (a) Data Organisation: Character, field, record, file and database, types of data processing systems [Serial, Batch, Real-time, Online, Centralized, Distributed], File Organizations [Sequential, Direct, Indexed-Sequential, Relative], Traditional file organisation vs. Database file organisation. (b) Database Management System: Concept of database management system (DBMS), definition, importance of DBMS, important terms of database [Entity, Attribute, Keys- Primary, Foreign and Candidate, Referential Integrity, Table, Views, Data Dictionary], types of database [Hierarchical, Network and Relational], basic ideas of Data Warehouse and Data Mining (definition, importance, advantages and disadvantages), Big data analysis- Concept	**KS**
Unit 3: Internet and Its Applications [8 Marks, Class: 8] Meaning of Internet, IPAddress [IPv4, IPv6], URL, Domain Name System, Internet Protocols - TCP/IP, UDP, FTP, TELNET[brief ideas only], HTML, DHTML AND XML [Concepts only], Ethical Hacking, Cloud Computing, Mobile Computing, Internet of Things, Ethical issues in Social Networking,	**KS**

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Unit 4: Security and Encryption [8 Marks, Class: 8] Need and concepts, dimension, definition and scope of e-security, security threats- Malicious Codes (Virus, Trozan Horse, Worm, Spyware, Ransomware), Hacking, Spoofing, Sniffing, Phishing, Spamming, Denial of Service (DoS) attacks, Technology solutions [Confidentiality: (Data Encryption & Decryption, Symmetric and asymmetric encryption), Security Implementation: Firewall, DMZ (De Militarized Zone), SSL, HTTPs, Significance of Website Auditing]	**KS**
Unit 5: IT Act. 2000 and Cyber Crimes [6 Marks, Class: 6] IT Act 2000- Definitions of different terms, Digital signature, Electronic Governance, Attribution, Acknowledgement and Dispatch of Electronic Records, Regulation of Certifying Authorities, Digital Signatures Certificates, Duties of Subscribers, Penalties and Adjudication, Appellate Tribunal, Offences and Cyber-crimes	**KS**

Module II Practical -50 marks

Chapters	Teacher Assigned
Unit 1: Word Processing [5 Marks, Class: 5] Working with word document- Editing text, Find and Replace text, Formatting, Spell check, Autocorrect, Auto text; Bullets and numbering, Tabs, Paragraph Formatting, Indent, Page Formatting, Header and footer, Macros, Drop cap; Tables: Inserting, Filling and formatting a Table, Inserting Pictures and Video; Mail Merge- including linking with Database, Printing documents	**KS**
Unit 2: Preparing Presentations [5 Marks, Class: 5] Basics of presentations: Slides, Fonts, Drawing, Editing; Inserting: Tables, Images, texts, Symbols, Media; Design; Transition; Animation, Hyperlink and Slideshow.	**KS**

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Unit 3: Spreadsheet and its Business Applications [16Marks, Class: 16] Managing worksheets- Formatting, Entering data, Editing, and Printing a worksheet; Handling operators in formula, Project involving multiple spreadsheets, Organizing Charts and graphs, Pivot Table. Spreadsheet Functions: Mathematical [SUMIF, SQRT, SUBTOTAL, SUMPRODUCT etc.], Statistical [AVERAGE, STDEV, VAR, CORRELATION, REGRESSION etc.], Financial [PMT, RATE, PV, FV, NPER, IRR, NPV, Data Table Etc.] Logical [AND, OR, IF etc.], Date and Time, lookup and reference, Database and Text functions. Creating Spreadsheet in the area of: Loan and Lease statement; Ratio Analysis; Payroll Statements; Capital Budgeting; Depreciation Accounting; Graphical Representation of Data; Frequency Distribution and its Statistical Parameters; Correlation and Regression	**KS**
Unit 4: Database Management System [8 Marks, Class: 8] Creation of Tables, Multiple Table Handling-Defining Relationship [Foreign Key], Simple and Conditional Queries, Types of Queries [Update, Delete, Append], Forms, Reports, Introduction to SQL through Basic Commands. Applying DBMS in the areas of Accounting, Inventory, HRM and its accounting, Managing the data records of Employees, Suppliers and Customers	**KS**
Unit 5: Website Designing [6 Marks, Class: 6] Introduction to HTML; Tags and Attributes: Text Formatting, Fonts, Hypertext Links, Tables, Images, Lists, Forms, Frames, Cascading Style Sheets	**KS**

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GE 3.3 Chg Business Mathematics & Statistics Module I

Chapters	Teacher Assigned
1 Permutations and Combinations: Definition, Factorial Notation, Theorems on Permutation, Permutations with repetitions, Restricted Permutations;Theorems on Combination, Basic identities, Restricted Combinations. **[8 L /8Marks]**	?
2 Set Theory: Definition of set, Presentation of sets, Different types of sets- Null set, Finite and infinite Sets, Universal set, Subset, Power set etc.; Set Operations, Law of algebra of Sets. **[8 L /8Marks]**	?
3 Binomial Theorem: Statement of the theorem for positive integral index, General term, Middle term, Simple properties of binomial coefficients. **[8 L /8Marks]**	?
4 Logarithm: Definition, Base and Index of Logarithm, General properties of Logarithm, Common Problems. **[8 L /8Marks]**	?
5 Compound Interest and Annuities: Simple AP and GP Series, Different types of interest rates, Net present value, Types of annuities, Continuous compounding, Valuation of simple loans and debentures, Problems relating to Sinking Funds. **[8 L /8Marks]**	?

Module II

Chapters	Teacher Assigned
6. Correlation and Association: Bivariate data, Scatter diagram, Pearson's correlationcoefficient, Spearman's rank correlation, Measures of association of attributes. **[8 L /8Marks]**	?
7. Regression Analysis: Least squares method, Simple regression lines, properties of regression, Identification of regression lines. **[8 L /8Marks]**	?
8. Index Numbers: Meaning and types of index numbers, Problems of constructing index numbers, Construction of price and quantity indices, Test of adequacy, errors in index numbers, Chain base index numbers; Base shifting, Splicing, Deflating, Consumer price index and its uses. **[8 L /8Marks]**	?

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9. Time Series Analysis: Causes of variation in time series data, Components of time series, additive and multiplicative models, Determination of trend by semi-average, moving average and least squares(of linear, quadratic and exponential trend) methods; Computation of seasonal Indices by simple average, ratio-to-moving average, ratio-to-trend and link relative methods; Simple forecasting through time series data. **[8 L /8Marks]**	?
10. Probability Theory: Meaning of probability; Different definitions of probability; Conditional probability; Compound probability; Independent events, Simple problems. **[8 L /8Marks]**	?

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CC3.1Ch: FINANCIAL ACCOUNTING – II

Chapters	Teacher Assigned
Partnership accounts-I [L 15/Marks 15] Correction of appropriation items with retrospective effect. Change in constitution of firm – change in P/S ratio, admission, retirement and retirement cum admission – treatment of Goodwill, revaluation of assets & liabilities (with/without alteration of books), treatment of reserve and adjustment relating to capital; treatment of Joint Life Policy, Death of a partner	**SKM**
Partnership accounts-II [L 15/Marks 15] Accounting for dissolution of firm – insolvency of one or more partner, consideration of private estate and private liabilities. Piecemeal distribution – surplus capital basis; maximum possible loss basis	**SKM**
Branch accounting Concept of Branch: [L 10/Marks 10] different types of Branches. Synthetic method – preparation of Branch account. Preparation of Branch Trading and P/L account. (at cost & at IP) – normal and abnormal losses. Analytical method – preparation of Branch Stock, Adjustment etc A/C (at cost & at IP) – normal & abnormal losses Independent branch – concept of wholesale profit	**SM**
Hire purchase and Instalment payment system Meaning: [L 10/Marks 10] difference with Installment payment system; Recording of transaction in the books of buyer – allocation of interest – use of Interest Suspense a/c – partial and complete repossession Books of Seller – Stock and Debtors A/C (with repossession) Books of Seller – H.P. Trading A/C without HP Sales and HP Debtors and General Trading A/c (with repossession) Concept of operating and financial lease – basic concept only.	**UG**
Departmental accounts [L 10/Marks 10] Concept, objective of preparation of departmental accounts; apportionment of common cost; Preparation of Departmental Trading and P/L account, Consolidated Trading and P/L account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit	**SM**

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Investment Accounts [L 10/Marks 10] Maintenance of Investment Ledger; Preparation of Investment Account (transaction with brokerage, STT, cum & ex-interest), Valuation of Investment under FIFO and Average method; Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right). Relevant Accounting Standard	**UG**
Business Acquisition and Conversion of partnership into limited company [L 10/Marks 10] • Profit/ loss prior to incorporation; Accounting for Acquisition of business. • Conversion of Partnership into Limited Company – with and without same set of book	**UG**

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CC3.1Cg: FINANCIAL ACCOUNTING – II

Chapters	Teacher Assigned
Partnership accounts-I [L 15/Marks 15] Correction of appropriation items with retrospective effect. Change in constitution of firm – change in P/S ratio, admission, retirement and retirement cum admission – treatment of Goodwill, revaluation of assets & liabilities (with/without alteration of books), treatment of reserve and adjustment relating to capital; treatment of Joint Life Policy, Death of a partner	**SKM**
Partnership accounts-II [L 15/Marks 15] Accounting for dissolution of firm – insolvency of one or more partner, consideration of private estate and private liabilities. Piecemeal distribution – surplus capital basis; maximum possible loss basis	**SKM**
Branch accounting Concept of Branch: [L 10/Marks 10] different types of Branches. Synthetic method – preparation of Branch account. Preparation of Branch Trading and P/L account. (at cost & at IP) – normal and abnormal losses. Analytical method – preparation of Branch Stock, Adjustment etc A/C (at cost & at IP) – normal & abnormal losses Independent branch – concept of wholesale profit	**SM**
Hire purchase and Instalment payment system Meaning: [L 10/Marks 10] difference with Installment payment system; Recording of transaction in the books of buyer – allocation of interest – use of Interest Suspense a/c – partial and complete repossession Books of Seller – Stock and Debtors A/C (with repossession) Books of Seller – H.P. Trading A/C without HP Sales and HP Debtors and General Trading A/c (with repossession) Concept of operating and financial lease – basic concept only.	**UG**
Departmental accounts [L 10/Marks 10] Concept, objective of preparation of departmental accounts; apportionment of common cost; Preparation of Departmental Trading and P/L account, Consolidated Trading and P/L account; inter departmental transfer of goods at cost, cost plus and at selling price and elimination of unrealized profit	**SM**
Investment Accounts [L 10/Marks 10] Maintenance of Investment Ledger; Preparation of Investment Account (transaction with brokerage, STT, cum & ex-interest), Valuation of Investment under FIFO and Average method; Investment Account for Shares (with Right Shares, Bonus Shares and Sale of Right). Relevant Accounting Standard	**UG**

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Business Acquisition and Conversion of partnership into limited company [L 10/Marks 10] • Profit/ loss prior to incorporation; Accounting for Acquisition of business. • Conversion of Partnership into Limited Company – with and without same set of book	**UG**

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CC3.2 Ch

Indian Financial System

Chapters	Teacher Assigned
Unit:I Financial System and Its Components Meaning, Significance and Role of the Financial System; Components of the Financial System; The structure of Indian Financial System. **[L-10/Marks:10]**	**AM**
Unit:II Financial Markets (a) Money Market: Functions and Instruments; Role of Central Bank; Indian Money Market: An Overview, Call Money Market, Treasury Bills Market, Commercial Paper (CP) Market, Certificate of Deposit (CD) Market; Concepts- Repo, Reverse Repo; Recent trends in the Indian money market. **[L-10/Marks 10]** (b) Capital Market: Functions and Instruments; Primary and Secondary Markets- Functions and inter-relationship, Methods of New Issues; Indian debt market and equity market; Market Intermediaries- Brokers, Sub-Brokers; Role of Stock Exchanges in India; Recent trends in the Indian capital market. **[L-20/Marks:20]**	**AM**
Unit: III Financial Institutions Commercial banking: Functions of Commercial Banks, Credit creation by commercial banks and its limitations; Reserve bank of India: Functions, Credit Control and Monetary Policy; Development Financial Institutions in India: NABARD, EXIM Bank, SIDBI; Life Insurance and General Insurance Companies in India: Functions; Mutual Funds: Concept of Mutual Fund, Types of Mutual Funds(open ended and close ended); Role of Mutual Funds in Indian capital market; Non-Banking Financial Companies (NBFCs):Definition, Functions, Regulations of RBI over NBFCs. **[L-20/Marks:20]**	**OB**
Unit: IV Financial Services Merchant Banks: Functions and Role, SEBI Regulations; Credit Rating: Objectives and Limitations, SEBI Regulations; Credit Rating Institutions and their functions. **[L-10/Marks:10]**	**AM**
Unit: V Investors' Protection Concept of investors' protection; Grievances regarding new issue market and Stock Exchange transactions, and the Grievance Redressal Mechanism; Role of SEBI, judiciary and the media. **[L-10/Marks:10]**	**SS**

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Semester IV

Microeconomics-II

Module I

Chapters	Teacher Assigned
Unit: I Monopoly Concept of Monopoly: Sources of monopoly power; Short-run and Long-run equilibrium of a monopoly firm; Price discrimination; Social Cost of Monopoly (concept only). **[L-10/Marks:10]**	**AD**
Unit: II Imperfect Competition Concept of Imperfectly Competitive market; Monopolistic Competition: Features and examples; Oligopoly: Non-Collusive Oligopoly: Sweezy's Kinked demand Curve Model, Collusive Oligopoly: Cartel (concept with example) **[L-15/Marks:15]**	**AD**
Unit: III Factor Price Determination Introduction; Marginal Productivity Theory of Distribution; Marginal Productivity Theory of Wage, Demand Curve of Labour, Supply Curve of Labour; Wage Determination in an Imperfectly Competitive Labour Market: Case of Collective Bargaining, Factors determining the power of trade unions to raise wages; Theory of Rent: Ricardian Theory of Rent, Modern Theory of Rent,Quasi-rent; Theory of Profit: Gross Profit and Net Profit, Accounting Profit and Normal Profit, Different Theories of Determination of Profit; Concept of Interest: Gross Interest and Net Interest, Classic Theory of Interest Rate Determination. **[L-15/Marks 15]**	**AD**

Module II Indian Economy

Chapters	Teacher Assigned
Unit:I Basic Issues in Economic Development Concepts and measures of development and underdevelopment; Concept of national income:GDP,GNP,NDP,NNP,NI (concepts only). **[L 5/ Marks:5]**	**AD**
Unit:II Basic Features of Indian Economy Sectoral distribution of National Income and Occupational Structure; Structural Change in Indian Economy, issue of Service-led Growth. **[L 10/ Marks:10]**	**AD**

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Unit:III Sectoral Trends and Issues (a) **Agricultural Sector**: Problem of low productivity; Green Revolution and its impact; Land Reforms; Problems of rural credit and marketing. (b) **Industry and Service Sector**: An overview of industrial growth during pre-reform and postreform period; Role of Public Sector: its performance and the issue of disinvestment; Role of MSME sector, problems faced by the MSME Sector; Role of the Service Sector: growth of banking and insurance sector during the post-reform period. (c) **External Sector**: Problem of unfavourable balance of payments and policy measures. **[L 15/ Marks:15]**	**AD**
Unit:IV Social Issues in Indian Economy Problem of Poverty, Poverty alleviation measures; Problem of Unemployment and the policy measures. **[L 10/ Marks:10]**	**AD**

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CC 4.1 Chg

Entrepreneurship Development and Business Ethics

Module I

Entrepreneurship Development

Chapters	Teacher Assigned
Unit-1: Introduction: **[No. of classes: 10 / Marks: 10]** Meaning, elements, determinants and importance of entrepreneurship and creative behavior; Entrepreneurship and Micro, Small and Medium Enterprises, Role of family business in India; The contemporary role models in Indian business: their values, business philosophy and behavioural orientations; Conflict in family business and its resolution.	**OB**
Unit-2: **[No. of classes: 10 / Marks: 10]** Public and private system of stimulation, support and sustainability of entrepreneurship. Requirement, availability and access to finance, marketing assistance, technology, and industrial accommodation, Role of industries/entrepreneur's associations and self-help groups, The concept, role and functions of business incubators, angel investors, venture capital and private equity fund.	**OB**
Unit-3: **[No. of classes: 10 / Marks: 10]** Sources of business ideas and tests of feasibility. Significance of writing the business plan/project proposal; Contents of business plan/ project proposal; Designing business processes, location, layout, operation, planning & control; preparation of project report	**OB**
Unit-4: **[No. of classes: 10 / Marks: 10]** Mobilizing Resources - Mobilizing resources for start-up. Accommodation and utilities; Preliminary contracts with the vendors, suppliers, bankers, principal customers; Basic start up problems;	**OB**

Module II

Business Ethics

Chapters	Teacher Assigned

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Unit 1: Business Ethics [No. of classes: 8 / Marks: 8] Introduction – Meaning - Scope – Types of Ethics – features – Factors influencing Business Ethics – significance of Business Ethics - Arguments for and against business ethics- Basics of business ethics - Corporate Social Responsibility and Business Ethics	**SS**
Unit 2: Principles of Business Ethics **[No. of classes: 8 / Marks: 8]** Introduction – Meaning – Element – Ethics, Morale, Business ethics, Ethical dilemma [basic idea, features and significance of each of element]	**SS**
Unit 3: Ethics in Management [No. of classes: 8 / Marks: 8] Introduction – Ethics in HRM – Ethics in Marketing — Ethics in Accounting and finance - Work place Ethics - Value and Ethics.	**SS**
Unit 4: Corporate Culture [No. of classes: 8 / Marks: 8] Meaning – Role – Functions – Impact of Corporate Culture – Globalization and cross culture issues in ethics, Corporate Code of ethics	**SS**
Unit 5: Ethics & Corporate Governance [No. of classes: 8 / Marks: 8] Concept of Corporate Governance, Scope, Reports on Corporate Governance and its benefits and limitations-- Corporate Governance and Business Ethics [Brief Concept]	**SS**

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CC 4.1 Ch
TAXATION-I

Chapters	Teacher Assigned
Unit 1 : a) Basic Concepts and Definitions under IT Act Assessee, Previous year, Assessment year, Person, Income, Sources of income, Heads of income, Gross total income, Total income, Maximum marginal rate of tax, Tax Evasion, Tax avoidance, Tax planning. **b) Residential Status and Incidence of Tax** Residential status of all persons except company **c) Incomes which do not form part of Total Income** Except section 10AA. **d) Agricultural Income** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both agricultural and non-agricultural income **(L-10 / M-10)**	**AM**
Unit 2 : Heads of Income and Provisions governing Heads of Income **a)** *Salaries* **b)** *Income from House property* **(L-30 / M-30)**	**OB**
Unit 3 : Heads of Income and Provisions governing Heads of Income **a)** *Profits and Gains of Business and Profession* Special emphasis on sec. 32, 32AC, 32AD, 35, 35D, 36(i)(ib), (ii), (iii), (iv), (vii), 37, 37(2B), 40A(2), 40A(3), 43B, (Excluding presumptive taxation) **b)** *Capital Gains* Meaning and types of capital assets, basic concept of transfer, cost of acquisition, cost of improvement and indexation, computation of STCG and LTCG, exemptions u/s 54, 54B, 54EC and 54F, capital gain on transfer of bonus shares, right entitlement and right shares, taxability of STCG and LTCG. **c)** *Income from Other Sources* Basis of charge excluding deemed dividend **(L-25 / M-25)**	**SKM & AM**

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Unit 4 : a) Income of other Persons included in Assessee's Total Income Remuneration of spouse, income from assets transferred to spouse and Son's wife, income of minor. **b) Set off and Carry Forward of Losses** Mode of set off and carry forward, inter source and inter head set off, carry forward and set off of losses u/s 71B, 72, 73, 74, 74A. **c) Deductions from Gross Total Income** Basic concepts, deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGC, 80TTA, 80U **d) Rebate u/s 87A (L-15 M-15)**	**AM**

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CC 4.1 Cg
TAXATION-I

Chapters	Teacher Assigned
Unit 1 : a) Basic Concepts and Definitions under IT Act Assessee, Previous year, Assessment year, Person, Income, Sources of income, Heads of income, Gross total income, Total income, Maximum marginal rate of tax, Tax Evasion, Tax avoidance, Tax planning. **b) Residential Status and Incidence of Tax** Residential status of all persons except company **c) Incomes which do not form part of Total Income** Except section 10AA. **d) Agricultural Income** Definition, determination of agricultural and non-agricultural Income, assessment of tax liability when there are both agricultural and non-agricultural income **(L-10 / M-10)**	**AM**
Unit 2 : Heads of Income and Provisions governing Heads of Income a) *Salaries* b) *Income from House property* **(L-30 / M-30)**	**OB**
Unit 3 : Heads of Income and Provisions governing Heads of Income **a)** *Profits and Gains of Business and Profession* Special emphasis on sec. 32, 32AC, 32AD, 35, 35D, 36(i)(ib), (ii), (iii), (iv), (vii), 37, 37(2B), 40A(2), 40A(3), 43B, (Excluding presumptive taxation) **b)** *Capital Gains* Meaning and types of capital assets, basic concept of transfer, cost of acquisition, cost of improvement and indexation, computation of STCG and LTCG, exemptions u/s 54, 54B, 54EC and 54F, capital gain on transfer of bonus shares, right entitlement and right shares, taxability of STCG and LTCG. **c)** *Income from Other Sources* Basis of charge excluding deemed dividend **(L-25 / M-25)**	**SKM & AM**

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Unit 4 : a) Income of other Persons included in Assessee's Total Income Remuneration of spouse, income from assets transferred to spouse and Son's wife, income of minor. b) Set off and Carry Forward of Losses Mode of set off and carry forward, inter source and inter head set off, carry forward and set off of losses u/s 71B, 72, 73, 74, 74A. c) Deductions from Gross Total Income Basic concepts, deductions u/s 80C, 80CCC, 80CCD, 80CCE, 80D, 80DD, 80DDB, 80E, 80G, 80GG, 80GGC, 80TTA, 80U d) Rebate u/s 87A **(L-15 M-15)**	**AM**

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CC 4.2 Ch

Cost and Management Accounting –II

Chapters	Teacher Assigned
Joint Product & Byproduct [L 10/Marks 10] Meaning, treatment and apportionment of cost; decision relating further processing	**UG**
Activity Based Costing [L 8/Marks 20] Problems of traditional costing; meaning of Activity Based Costing; cost analysis under ABC; application of ABC	**AM**
Budget and Budgetary Control [L 12/Marks 10] Budget and Budgetary Control; The budget manual, principal budget factor, preparation and monitoring procedures, Fixed and Flexible budget, preparation of functional budgets – concepts, cash budget, flexible	**UG**
Standard Costing [L 20/Marks 20] Standard Costs and Standard Costing; Uses, & Importance. Differences with Budgetary Control, Preliminary Steps. Classification of Standards. Analysis and computation of Materials, Labour and Overhead Costs (concepts only) Variances	**AM**
CVP Analysis, Marginal Costing [L 15/Marks 20] **CVP Analysis** Introduction; CVP Assumptions and Uses; Break-Even Analysis: BE Point and Margin of Safety; Graphical presentation of CVP Relationship; Profit Graph **Marginal Costing and Management Decisions –** Marginal Costing vis-à-vis Absorption Costing; Cost statement under marginal costing and absorption costing; Marginal Costing Techniques.	**SM**
Short-term Decision Making [L 15/Marks 10] Marginal Cost and decision relating Product Pricing; Product Mix; Make or Buy; Choosing among alternatives and closing down or suspending an activity. (with simple type of problems)	**SM**

CC 4.2 Cg

Cost and Management Accounting –II

Chapters	Teacher Assigned
Joint Product & Byproduct [L 10/Marks 10] Meaning, treatment and apportionment of cost; decision relating further processing	**UG**

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Activity Based Costing [L 8/Marks 20] Problems of traditional costing; meaning of Activity Based Costing; cost analysis under ABC; application of ABC	**AM**
Budget and Budgetary Control [L 12/Marks 10] Budget and Budgetary Control; The budget manual, principal budget factor, preparation and monitoring procedures, Fixed and Flexible budget, preparation of functional budgets – concepts, cash budget, flexible	**UG**
Standard Costing [L 20/Marks 20] Standard Costs and Standard Costing; Uses, & Importance. Differences with Budgetary Control, Preliminary Steps. Classification of Standards. Analysis and computation of Materials, Labour and Overhead Costs (concepts only) Variances	**AM**
CVP Analysis, Marginal Costing [L 15/Marks 20] **CVP Analysis** Introduction; CVP Assumptions and Uses; Break-Even Analysis: BE Point and Margin of Safety; Graphical presentation of CVP Relationship; Profit Graph **Marginal Costing and Management Decisions –** Marginal Costing vis-à-vis Absorption Costing; Cost statement under marginal costing and absorption costing; Marginal Costing Techniques.	**SM**
Short-term Decision Making [L 15/Marks 10] Marginal Cost and decision relating Product Pricing; Product Mix; Make or Buy; Choosing among alternatives and closing down or suspending an activity. (with simple type of problems)	**SM**

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Semester V

CC 5.1Ch

Auditing & Assurance

Chapters	Teacher Assigned
UNIT – I CONCEPT, NEED AND PURPOSE OF AUDIT (10M/ 10L) • Definition-Nature-Scope and Objectives of Independent Financial Audit • Basic Principles Governing an Audit, Concept of Auditor's Independence • Errors and Fraud-Concepts, Means of doing Fraud, Auditor's Responsibility towards Detection and Prevention of Fraud, Difference between Audit and Investigation • Classification of Audit- Organization Structure wise (Statutory, Non-statutory); Objective wise (Internal and Independent Financial Audit); Periodicity wise (Periodical, Continuous, Interim, Final); Technique wise (Balance Sheet, Standard, Systems, EDP); • Standards on Auditing (SA)- Concept and Purpose	**UG**
UNIT – II AUDIT PROCEDURES AND TECHNIQUES (15M/ 15L) • Auditing Engagement-Audit Planning- Audit Programme (Concept) • Documentation: Audit Working Paper, Ownership and Custody of Working Papers-Audit file (Permanent and Current) – Audit Note Book- Audit Memorandum. • Audit Evidence – Concept, Need, Procedures to obtain Audit Evidence • Routine Checking, Test Checking and Auditing in Depth • Concept of Analytical Procedure and Substantive Testing in Auditing. • Audit of Educational Institutions, Hospitals and Hotels	**UG**
UNIT – III AUDIT RISK AND INTERNAL CONTROL SYSTEM (10M/10L) • Audit Risk – Concept and Types only. • Internal Control- Definition, Objectives • Internal Check- Definition, Objectives • Internal Audit- Definition, Objectives, Regulatory Requirement, Reliance by Statutory Auditor on Internal Auditor's Work	**UG**

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UNIT – IV VOUCHING, VERIFICATION AND VALUATION (10M/10L) • **Vouching:** Meaning, Objectives - Difference with Routine Checking – Factors to be Considered during Vouching - Vouching of Following Items: i) **Receipts:** Cash Sale, Collection from Debtors, Interest and Dividend from Investment, Sale of Fixed Assets. ii)**Payments:** Cash Purchase, Payment to Creditors, Payment of Wages and Salaries, Advertisement Expenses, Travelling Expenses, Research and Development Expenditure, Prepaid Expenses. • **Verification and Valuation:** Concept, Objectives, Importance, Difference with Vouching, Difference between Verification and Valuation, Verification of following items: **i)** Non-Current Assets: Goodwill, Patent and Copy Right, Leasehold Land, Plant and Machinery, **ii)** Investments **iii)** Current Assets: Inventory, Loan and Advance, Cash and Bank Balances **iv)** Non-current Liability: Secured Loan) Current Liability: Trade Payables (SundryCreditors).	**SM**
UNIT - V COMPANY AUDIT (15M/15L) • Qualification, Disqualification, Appointment and Rotation, Removal and Resignation, Remuneration, Rights, Duties and Liabilities of Company Auditor • Branch Audit and Joint Audit • Depreciation – Concept and Provisions of the Companies Act • Divisible Profit and Dividend (Final, Interim and Unclaimed/Unpaid): Provisions of the Act, Legal Decisions and Auditor's Responsibility	**SM**
UNIT – VI AUDIT REPORT AND CERTIFICATE (10M/10L) • Definition – Distinction between Report and Certificate- Different Types of Report • Contents of Audit Report (As per Companies Act and Standards on Auditing) • True and Fair View – Concept • Materiality – Concept and Relevance	**AM**

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UNIT – VII OTHER THRUST AREAS (10M/10L)	AM
• Cost Audit – Concepts, Objectives Relevant Provisions of Companies Act • Management Audit - Concepts, Objectives, Advantages • Tax Audit – Concepts, Objectives, Legal Provisions • Social Audit – Propriety Audit – Performance Audit – Environment Audit (Concepts only)	

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CC 5.1Cg

Auditing & Assurance

Chapters	Teacher Assigned
UNIT – I CONCEPT, NEED AND PURPOSE OF AUDIT (10M/ 10L) • Definition-Nature-Scope and Objectives of Independent Financial Audit • Basic Principles Governing an Audit, Concept of Auditor's Independence • Errors and Fraud-Concepts, Means of doing Fraud, Auditor's Responsibility towards Detection and Prevention of Fraud, Difference between Audit and Investigation • Classification of Audit- Organization Structure wise (Statutory, Non-statutory); Objective wise (Internal and Independent Financial Audit); Periodicity wise (Periodical, Continuous, Interim, Final); Technique wise (Balance Sheet, Standard, Systems, EDP); • Standards on Auditing (SA)- Concept and Purpose	**UG**
UNIT – II AUDIT PROCEDURES AND TECHNIQUES (15M/ 15L) • Auditing Engagement-Audit Planning- Audit Programme (Concept) • Documentation: Audit Working Paper, Ownership and Custody of Working Papers-Audit file (Permanent and Current) – Audit Note Book- Audit Memorandum. • Audit Evidence – Concept, Need, Procedures to obtain Audit Evidence • Routine Checking, Test Checking and Auditing in Depth • Concept of Analytical Procedure and Substantive Testing in Auditing. • Audit of Educational Institutions, Hospitals and Hotels	**UG**
UNIT – III AUDIT RISK AND INTERNAL CONTROL SYSTEM (10M/10L) • Audit Risk – Concept and Types only. • Internal Control- Definition, Objectives • Internal Check- Definition, Objectives • Internal Audit- Definition, Objectives, Regulatory Requirement, Reliance by Statutory Auditor on Internal Auditor's Work	**UG**

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UNIT – IV VOUCHING, VERIFICATION AND VALUATION (10M/10L) • **Vouching:** Meaning, Objectives - Difference with Routine Checking – Factors to be Considered during Vouching - Vouching of Following Items: i) **Receipts:** Cash Sale, Collection from Debtors, Interest and Dividend from Investment, Sale of Fixed Assets. ii)**Payments:** Cash Purchase, Payment to Creditors, Payment of Wages and Salaries, Advertisement Expenses, Travelling Expenses, Research and Development Expenditure, Prepaid Expenses. • **Verification and Valuation:** Concept, Objectives, Importance, Difference with Vouching, Difference between Verification and Valuation, Verification of following items: **i)** Non-Current Assets: Goodwill, Patent and Copy Right, Leasehold Land, Plant and Machinery, **ii)** Investments **iii)** Current Assets: Inventory, Loan and Advance, Cash and Bank Balances **iv)** Non-current Liability: Secured Loan) Current Liability: Trade Payables (SundryCreditors).	**SM**
UNIT - V COMPANY AUDIT (15M/15L) • Qualification, Disqualification, Appointment and Rotation, Removal and Resignation, Remuneration, Rights, Duties and Liabilities of Company Auditor • Branch Audit and Joint Audit • Depreciation – Concept and Provisions of the Companies Act • Divisible Profit and Dividend (Final, Interim and Unclaimed/Unpaid): Provisions of the Act, Legal Decisions and Auditor's Responsibility	**SM**
UNIT – VI AUDIT REPORT AND CERTIFICATE (10M/10L) • Definition – Distinction between Report and Certificate- Different Types of Report • Contents of Audit Report (As per Companies Act and Standards on Auditing) • True and Fair View – Concept • Materiality – Concept and Relevance	**AM**

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UNIT – VII OTHER THRUST AREAS (10M/10L)	AM
• Cost Audit – Concepts, Objectives Relevant Provisions of Companies Act • Management Audit - Concepts, Objectives, Advantages • Tax Audit – Concepts, Objectives, Legal Provisions • Social Audit – Propriety Audit – Performance Audit – Environment Audit (Concepts only)	

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CC 5.2 Ch
TAXATION-II

Module I - Direct Tax

Chapters	Teacher Assigned
Unit 1 : Computation of Total Income and Tax Payable a) Rate of tax applicable to different assesses (except corporate assessee) b) Computation of tax liability of an individual, Firm (excluding application of AMT) **(L-15 / M-15)**	**OB**
Unit 2 : TAX MANAGEMENT **a) Provision for Filing of Return** Date of filing of return, relevant forms of return, different types of returns, return by whom to be signed, PAN, TAN b) Assessment of Return Self assessment u/s140A, Summary assessment u/s 143(1), Scrutiny assessment u/s 143(3) and Best judgement assessment u/s 144. c) Advance Tax Who is liable to pay, due dates and computation of advance tax (excluding corporate assessees) d) Interest & Fees Section 234A, 234B, 234C, 234F (simple problems on interest and fees) e) TDS Provisions regarding TDS from salary, interest on securities, horse racing, lottery. **(L-25 / M-25)**	**OB**

Module II - INDIRECT TAXES

Chapters	Teacher Assigned
Unit-3: Basic Concepts of indirect Tax and overview of GST. Concept of indirect Tax; Difference between direct tax and indirect tax; Concept, objectives, structure and types of GST; Taxes subsumed into GST; Application of SGST, CGST, UTGST and IGST; Non-applicability of GST, Rates of GST and Compensation Cess. Definitions : Aggregate turnover, Business, Capital goods, Casual taxable person, Goods, lnput, lnput tax, lnput tax credit, Output tax, Person, Place of business, Registered Person, Services, Taxable Ferson, Turnover in state and union territory **(L-5 / M-5)**	**AM**

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Unit4: Taxable event. supplv - Concept. time. value and place. charqe of GST. Meaning of taxable event, Supply as per CSST Act (excluding detailed discussion on Sch l, Sch-ll and lll), lnward supply, outward supply, Non-taxable supply, Taxable supply, Exempt supply, Continuous supply of goods, composite supply, mixed supply, intrastate and interstate.supply of goods, zero rated supply (basic concepts only) **Time of supply of goods -** Need for determination, provisions in relation to forward and reverse charge only. Value of supplv - lnclusion and exclusion of items for computation of value of supply under transaction value, value inclusive of tax. **Place of supplv-** Need for ascertainment only. **Levy of GST under GGST -** Basis of charge, Fonruard and reverse charge (basic concepts only). **(L-15 / M-15)**	**AM**
Unit-5: Input and Output Tax Gomputation. lnput Tax Credit (ITC) and Composition Scheme under GST Tax lnvoice and Bill of Supplv (Basic Concepts onlv) **ITC -** Meaning, Conditions for enjoyment of ITC and time limit to avail ITC (Sec 16 only), utilisation for payment (simple problems). **Composition scheme-**Meaning, applicability & rate, Eligible Person, Determination of aggregate turnover (simple problems). **Time of Payment of GST (L-10 / M-10)**	**AM**
Unit 6 : Customs Basic concepts, Taxable event, Territorial water, Indian customs water, Goods, Types of Customs duties – Basic, Additional, Protective, Safeguard, Counter-veiling duty on subsidised goods, Anti Dumping, Valuation of Custom Duty. **(L-8 / M-10)**	**AM**

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DSE 5.1 A
TAXATION-II

Module I - Direct Tax

Chapters	Teacher Assigned
Unit 1 : Computation of Total Income and Tax Payable a) Rate of tax applicable to different assesses (except corporate assessee) b) Computation of tax liability of an individual, Firm (excluding application of AMT) **(L-15 / M-15)**	**OB**
Unit 2 : TAX MANAGEMENT **a) Provision for Filing of Return** Date of filing of return, relevant forms of return, different types of returns, return by whom to be signed, PAN, TAN b) Assessment of Return Self assessment u/s140A, Summary assessment u/s 143(1), Scrutiny assessment u/s 143(3) and Best judgement assessment u/s 144. c) Advance Tax Who is liable to pay, due dates and computation of advance tax (excluding corporate assessees) d) Interest & Fees Section 234A, 234B, 234C, 234F (simple problems on interest and fees) e) TDS Provisions regarding TDS from salary, interest on securities, horse racing, lottery. **(L-25 / M-25)**	**OB**

Module II - INDIRECT TAXES

Chapters	Teacher Assigned
Unit-3: Basic Concepts of indirect Tax and overview of GST. Concept of indirect Tax; Difference between direct tax and indirect tax; Concept, objectives, structure and types of GST; Taxes subsumed into GST; Application of SGST, CGST, UTGST and IGST; Non-applicability of GST, Rates of GST and Compensation Cess. Definitions : Aggregate turnover, Business, Capital goods, Casual taxable person, Goods, lnput, lnput tax, lnput tax credit, Output tax, Person, Place of business, Registered Person, Services, Taxable Ferson, Turnover in state and union territory **(L-5 / M-5)**	**AM**

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Unit4: Taxable event. supplv - Concept. time. value and place. charqe of GST. Meaning of taxable event, Supply as per CSST Act (excluding detailed discussion on Sch l, Sch-ll and lll), lnward supply, outward supply, Non-taxable supply, Taxable supply, Exempt supply, Continuous supply of goods, composite supply, mixed supply, intrastate and interstate.supply of goods, zero rated supply (basic concepts only) **Time of supply of goods -** Need for determination, provisions in relation to forward and reverse charge only. Value of supplv - lnclusion and exclusion of items for computation of value of supply under transaction value, value inclusive of tax. **Place of supplv-** Need for ascertainment only. **Levy of GST under GGST -** Basis of charge, Fonruard and reverse charge (basic concepts only). **(L-15 / M-15)**	**AM**
Unit-5: Input and Output Tax Gomputation. lnput Tax Credit (ITC) and Composition Scheme under GST Tax lnvoice and Bill of Supplv (Basic Concepts onlv) **ITC -** Meaning, Conditions for enjoyment of ITC and time limit to avail ITC (Sec 16 only), utilisation for payment (simple problems). **Composition scheme-**Meaning, applicability & rate, Eligible Person, Determination of aggregate turnover (simple problems). **Time of Payment of GST (L-10 / M-10)**	**AM**
Unit 6 : Customs Basic concepts, Taxable event, Territorial water, Indian customs water, Goods, Types of Customs duties – Basic, Additional, Protective, Safeguard, Counter-veiling duty on subsidised goods, Anti Dumping, Valuation of Custom Duty. **(L-8 / M-10)**	**AM**

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DSE 5.1 A

Macroeconomics and Advanced Business Mathematics

Module I - Macroeconomics

Chapters	Teacher Assigned
Unit – I:Introduction Concepts and variables of Macroeconomics. **[L 2 / Marks:2]**	**AD**
Unit – II: National Income Accounting Concepts and measurement of National Income (numerical examples preferred); Circular flow of income – Real and Nominal GDP –Implicit deflator. **[L 6 / Marks:6]**	**AD**
Unit – III: Determination of Equilibrium Level of National Income Simple Keynesian Model; Consumption, saving and investment functions – National income determination; Investment multiplier, Government expenditure multiplier, Tax multiplier,Balanced Budget multiplier. **[L 10 / Marks:10]**	**AD**
Unit – IV: Commodity market and Money market equilibrium Concept of demand for Money: Liquidity Preference Approach; Derivation of IS and LM curves –Shifts of IS and LM curves-equilibrium in IS-LM model – Effectiveness of monetary and fiscal policies. **[L 10 / Marks:10]**	**AD**

Module II - Advanced Business Mathematics

Chapters	Teacher Assigned
1 **Functions,Limit and Continuity**: Definition of functions, Classification of functions, Different types of functions(excluding trigoometrical functions), Elementary ideas of limit and continuity through the use of simple algebraic functions. **[8 L /8Marks]**	**?**
2 Differentiation and Integration: Derivative and its meaning; Rules of differentiation; Geometrical interpretation; Significance of derivative as rate measure; Second order derivatives; Integration as anti-derivative process; Standard forms; Integration by substitution. **[8 L /8Marks]**	**?**

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3 Applications of Derivative and Integration: Maximum and minimum values ; Cost function ; Demand function ; Profit function; Increasing and decreasing functions ; Rate measure, Applied problems on Average cost (AC), Average variable cost (AVC), Marginal cost (MC), Marginal revenue (MR), Simple area calculation by integration method. **[8 L/8 Marks]**	?
4 Determinants: Determinants upto third order, Elementary properties of determinants, Minors and co-factors, Solution of a system of linear equations by Cramer's Rule (up to three variables). **[8 L /8Marks]**	?
5 Matrix: Definition of matrix, Types of matrices, Operations on matrices (addition, subtraction, multiplication), Adjoint of a matrix, Inverse of a matrix , Solution of a system of linear equations by matrix inversion method (up to three variables). **[8 L /8Marks]**	?

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DSE 5.2 A
CORPORATE ACCOUNTING

Chapters	Teacher Assigned
1 **[L 20/Marks 20]** Company – Introduction And Accounting for Shares & debentures • Meaning of Company; Maintenance of Books of Accounts; Statutory Books; Annual Return • Issue of Shares – issue, forfeiture, reissue, issue other than in cash consideration and issue to the promoters; Pro-rata issue of shares. Issue of debentures. Sweat equity. • Right and Bonus Share – Rules, Accounting • Underwriting of shares and debentures: Rules; Determination of Underwriters Liability – with marked, unmarked & firm underwriting; Accounting. • Employee Stock Option Plan – meaning; rules; Vesting Period; Exercise Period. Accounting for ESOP. Meaning and Accounting of ESPS.	**UG**
2 **[L 10/Marks 10]** Buy Back of Securities – meaning, rules and Accounting. • Redemption of Preference Shares – Rules and Accounting (with and without Bonus Shares)	**UG**
3 **[L 15/Marks 15]** Company Final Accounts Introduction to Schedule III; Treatment of Tax; transfer to reserve, Dividend and applicable tax (out of current profit, out of past reserve); Preparation of Statement of Profit & Loss and Balance Sheet. (tax on net profit without recognizing deferred tax)	**SM**
4 **[L 10/Marks 10]** Redemption of debenture Redemption of Debenture – Important Provisions, Accounting for Redemption: by conversion, by lot, by purchase in the open market (cum and ex-interest), held as Investment and Use of Sinking Fund	**SKM**
5 **[L 10/Marks 10]** Valuation Goodwill – valuation using different methods, i.e., Average Profit, Super Profit, Capitalisation and Annuity. Shares – Valuation using different methods: Asset approach, Earnings approach, Dividend Yield, Earnings- Price, Cum-div and Ex-div, Majority and Minority view and Fair Value	**SM**

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6 **[L 15/Marks 15]** Company Merger And Reconstruction • Amalgamation, Absorption and Reconstruction– Meaning; relevant standard and meaning of different terms, Accounting in the books of Transferor Company. Accounting in the books of Transferee (based on relevant accounting standard); intercompany transactions (excluding inter-company share holding). • Internal reconstruction – meaning, provisions and Accounting, Surrender of Shares for redistribution; preparation of Balance Sheet after reconstruction	**SKM**

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DSE 5.2 AG
CORPORATE ACCOUNTING

Chapters	Teacher Assigned
1 **[L 20/Marks 20]** Company – Introduction And Accounting for Shares & debentures • Meaning of Company; Maintenance of Books of Accounts; Statutory Books; Annual Return • Issue of Shares – issue, forfeiture, reissue, issue other than in cash consideration and issue to the promoters; Pro-rata issue of shares. Issue of debentures. Sweat equity. • Right and Bonus Share – Rules, Accounting • Underwriting of shares and debentures: Rules; Determination of Underwriters Liability – with marked, unmarked & firm underwriting; Accounting. • Employee Stock Option Plan – meaning; rules; Vesting Period; Exercise Period. Accounting for ESOP. Meaning and Accounting of ESPS.	**UG**
2 **[L 10/Marks 10]** Buy Back of Securities – meaning, rules and Accounting. • Redemption of Preference Shares – Rules and Accounting (with and without Bonus Shares)	**UG**
3 **[L 15/Marks 15]** Company Final Accounts Introduction to Schedule III; Treatment of Tax; transfer to reserve, Dividend and applicable tax (out of current profit, out of past reserve); Preparation of Statement of Profit & Loss and Balance Sheet. (tax on net profit without recognizing deferred tax)	**SM**
4 **[L 10/Marks 10]** Redemption of debenture Redemption of Debenture – Important Provisions, Accounting for Redemption: by conversion, by lot, by purchase in the open market (cum and ex-interest), held as Investment and Use of Sinking Fund	**SKM**
5 **[L 10/Marks 10]** Valuation Goodwill – valuation using different methods, i.e., Average Profit, Super Profit, Capitalisation and Annuity. Shares – Valuation using different methods: Asset approach, Earnings approach, Dividend Yield, Earnings- Price, Cum-div and Ex-div, Majority and Minority view and Fair Value	**SM**

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6 **[L 15/Marks 15]** Company Merger And Reconstruction • Amalgamation, Absorption and Reconstruction– Meaning; relevant standard and meaning of different terms, Accounting in the books of Transferor Company. Accounting in the books of Transferee (based on relevant accounting standard); intercompany transactions (excluding inter-company share holding). • Internal reconstruction – meaning, provisions and Accounting, Surrender of Shares for redistribution; preparation of Balance Sheet after reconstruction	**SKM**

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Semester VI

SEC 6.1Chg

COMPUTERISED ACCOUNTING SYSTEM and E-FILING OF TAX RETURN

Chapters	Teacher Assigned
Unit-1: Computerized Accounting Package: Using Generic Software [40 Marks, Class: 40] (a) Company creation, ledger creation, order processing, accounting voucher, inventory voucher, memorandum voucher, invoicing, multiple godown handling, Transfer of materials across godowns, Bank Reconciliation, (b) Cost Centre, Cost Category, Bill of Material (BoM), Budget and Controls (c) Payroll Accounting (d) TDS, GST (e) Back up & Restore, Export and Import data	**KS**
Unit 2: Designing Computerized Accounting System [15 Marks, Class:15] (a) Introduction to DBMS Package – Table, Query, Form and Report (b) Designing Computerized Accounting System using DBMS Package Creating a voucher entry Form, Preparing ledgers, trial balance, profit & loss a/c, and balance sheet with Form wizard and Report (c) Designing Payroll System for Accounting using Form, Query, and Report	**KS**
Unit-3: E-filing of Tax return [25 Marks, Class: 25] (a) Preparation and submission of the Income Tax Return (ITR) offline/online for individual taxpayer [e-filing without using DSC and with using DSC, EVC] (b) View form 26AS,Upload return, View e-file returns, e-verification (c) Use of e-tax calculator (including interest calculation u/s 234A, 234B, 234C) (d) E-Pay tax (Challan No./ITNS 280, ITNS 281) (e) Preparation and submission online form 10E [Relief u/s 89(1)]	**SM**

CC 6.1 Ch

Project Work (Project Report - 50 + Viva-Voce Examination - 50)

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DSE 6.1 A
FINANCIAL REPORTING AND FINANCIAL STATEMENT ANALYSIS

Chapters	Teacher Assigned
1 Holding Company [L 15/Marks 15] Meaning of Holding Company & Subsidiary Company; relevant standard; Consolidation of Balance Sheets of Parent & Subsidiary (only one); Minority Interest – Basic principles and preparation of CBS; CBS with loss balance of Subsidiary Treatment for: Revaluation of Assets of Subsidiary, Intra-group Transactions, Holding of different securities. Consideration of dividend paid or proposed by Subsidiary in CBS; Bonus Shares issued or proposed to be issued by Subsidiary (excluding shares acquired on different dates by the Parent company, chain and cross holding)	**SR**
2 Accounting Standards [L 15/Marks 15] Conceptual Framework, Presentation of Financial Statements (Ind AS 1), Property, Plant and Equipment (Ind AS 16), Earnings per share (Ind AS 33), [Basic Definitions & Theoretical Concepts, Scope]	**SR**
3 **Fund Flow Statement [L 5/Marks 10]** Concept of fund, meaning, nature, various sources and applications, advantages & limitations of Fund Flow Statement.	**SM**
4 **Cash Flow Statement [L 15/Marks 10]** Meaning, objectives, difference with Fund Flow Statement; activity classification and preparation and presentation as per relevant Accounting Standard.	**SM**
5 **Introduction to Financial Statements Analysis [L 12/Marks 10]** Nature and Component of Financial Statement; Meaning and Need for FSA, Traditional & Modern approaches to FSA, Parties interested in FSA. • Comparative Statement – meaning, preparation, uses, merits and demerits • Common -size Statement – meaning, preparation, uses, merits and demerits • Trend Analysis – meaning, determination, uses, merits and demerits	**OB**

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6 **Accounting Ratios for FSA [L 18/Marks 20]** Meaning, objective, Classification of Accounting Ratios, Advantages & Limitations Preparation of Classified Financial Statements and Statement of Proprietor's Fund from the given Ratios. Computation, Analysis and Interpretation of important ratios for measuring –Liquidity, Solvency, Capital Structure, Profitability and Managerial Effectiveness.	**OB**

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DSE 6.1 AG

FINANCIAL REPORTING AND FINANCIAL STATEMENT ANALYSIS

Chapters	Teacher Assigned
1 Holding Company [L 15/Marks 15] Meaning of Holding Company & Subsidiary Company; relevant standard; Consolidation of Balance Sheets of Parent & Subsidiary (only one); Minority Interest – Basic principles and preparation of CBS; CBS with loss balance of Subsidiary Treatment for: Revaluation of Assets of Subsidiary, Intra-group Transactions, Holding of different securities. Consideration of dividend paid or proposed by Subsidiary in CBS; Bonus Shares issued or proposed to be issued by Subsidiary (excluding shares acquired on different dates by the Parent company, chain and cross holding)	**SR**
2 Accounting Standards [L 15/Marks 15] Conceptual Framework, Presentation of Financial Statements (Ind AS 1), Property, Plant and Equipment (Ind AS 16), Earnings per share (Ind AS 33), [Basic Definitions & Theoretical Concepts, Scope]	**SR**
3 **Fund Flow Statement [L 5/Marks 10]** Concept of fund, meaning, nature, various sources and applications, advantages & limitations of Fund Flow Statement.	**SM**
4 **Cash Flow Statement [L 15/Marks 10]** Meaning, objectives, difference with Fund Flow Statement; activity classification and preparation and presentation as per relevant Accounting Standard.	**SM**
5 **Introduction to Financial Statements Analysis [L 12/Marks 10]** Nature and Component of Financial Statement; Meaning and Need for FSA, Traditional & Modern approaches to FSA, Parties interested in FSA. • Comparative Statement – meaning, preparation, uses, merits and demerits • Common -size Statement – meaning, preparation, uses, merits and demerits • Trend Analysis – meaning, determination, uses, merits and demerits	**OB**
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DSE 6.2 A
FINANCIAL MANAGEMENT

Chapters	Teacher Assigned
1 [L 10/Marks 10] **Introduction** • Important functions of Financial Management • Objectives of the firm: Profit maximisation vs. Value maximisation • Role of Chief Financial Officer. • Financial environment in which a firm has to operate **Basic Concepts** • Time Value of Money: concept and reasons • Compounding and Discounting techniques • Concepts of Annuity and Perpetuity. • Risk-return relationship (concepts only)	**AM**
2 [L 10/Marks 10] **Sources of Finance and Cost of Capital** • Different sources of finance; long term and short term sources • Cost of capital: concept, relevance of cost of capital, Implicit and Explicit cost, specific costs (its computation) and weighted average cost (its computation) , rationale of after tax weighted average cost of capital, marginal cost of capital (its computation).	**UG**
3 [L 10/Marks 10] **Leverage and Capital Structure Theories** • EBIT-EPS analysis and its limitations. Financial break even, point of indifference • Leverage- Business Risk and Financial Risk - Operating and financial leverage, Trading on Equity • Capital Structure decisions - Capital structure patterns, designing optimum capital structure, Constraints, Features of sound capital structure, Various capital structure theories (excluding M-M model).	**UG**
4 [L 10/Marks 10] **Working Capital Management(1)** • Introduction; Meaning and various concepts of Working Capital • Management of Working Capital and Issues in Working Capital • Estimating Working Capital Needs; Operating or Working Capital Cycle.	**UG**

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5 [L 10/Marks 10] **Working Capital Management (2)** • Policies relating Current Assets – Conservative, Aggressive and Balanced • Various sources of finance to meet working capital requirements; Financing current assets: Strategies of financing (Matching, Conservative, and Aggressive policies) • Management of components of working capital (debtors management only–credit period -simple type	**UG**
6 [L 10/Marks 10] **Capital Expenditure Decisions (1)** • Purpose, Distinguishing features, Objectives & Process, Understanding different types of projects • Concept of Cash flow; Cash flow vis-à-vis Profit and determination of Cash flow • Techniques of Decision making: Non-discounted and Discounted Cash flow Approaches • Payback Period method, Accounting Rate of Return and their relative merits and demerits	**AM**
7 [L 10/Marks 10] **Capital Expenditure Decisions (2)** • Discounted Payback Period, Net Present Value, Profitability Index and Benefit Cost ratio, Internal Rate of Return, relative merits and demerits of the methods.(excluding replacement decision) • Ranking of competing projects, Ranking of projects with unequal lives. Capital Rationing	**AM**
8 [L 10/Marks 10] **Dividend Decisions** • Meaning, Nature and Types of Dividend, Dividend and Retention; concept of pay-out ratio, retention ratio and growth. • Dividend policies and formulating a dividend policy • Dividend Theories: Walter's Model, Gordon's Model,	**AM**

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DSE 6.2 AG
FINANCIAL MANAGEMENT

Chapters	Teacher Assigned
1 [L 10/Marks 10] **Introduction** • Important functions of Financial Management • Objectives of the firm: Profit maximisation vs. Value maximisation • Role of Chief Financial Officer. • Financial environment in which a firm has to operate **Basic Concepts** • Time Value of Money: concept and reasons • Compounding and Discounting techniques • Concepts of Annuity and Perpetuity. • Risk-return relationship (concepts only)	**AM**
2 [L 10/Marks 10] **Sources of Finance and Cost of Capital** • Different sources of finance; long term and short term sources • Cost of capital: concept, relevance of cost of capital, Implicit and Explicit cost, specific costs (its computation) and weighted average cost (its computation) , rationale of after tax weighted average cost of capital, marginal cost of capital (its computation).	**UG**
3 [L 10/Marks 10] **Leverage and Capital Structure Theories** • EBIT-EPS analysis and its limitations. Financial break even, point of indifference • Leverage- Business Risk and Financial Risk - Operating and financial leverage, Trading on Equity • Capital Structure decisions - Capital structure patterns, designing optimum capital structure, Constraints, Features of sound capital structure, Various capital structure theories (excluding M-M model).	**UG**
4 [L 10/Marks 10] **Working Capital Management(1)** • Introduction; Meaning and various concepts of Working Capital • Management of Working Capital and Issues in Working Capital • Estimating Working Capital Needs; Operating or Working Capital Cycle.	**UG**

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5 [L 10/Marks 10] **Working Capital Management (2)** • Policies relating Current Assets – Conservative, Aggressive and Balanced • Various sources of finance to meet working capital requirements; Financing current assets: Strategies of financing (Matching, Conservative, and Aggressive policies) • Management of components of working capital (debtors management only–credit period -simple type	**UG**
6 [L 10/Marks 10] **Capital Expenditure Decisions (1)** • Purpose, Distinguishing features, Objectives & Process, Understanding different types of projects • Concept of Cash flow; Cash flow vis-à-vis Profit and determination of Cash flow • Techniques of Decision making: Non-discounted and Discounted Cash flow Approaches • Payback Period method, Accounting Rate of Return and their relative merits and demerits	**AM**
7 [L 10/Marks 10] **Capital Expenditure Decisions (2)** • Discounted Payback Period, Net Present Value, Profitability Index and Benefit Cost ratio, Internal Rate of Return, relative merits and demerits of the methods.(excluding replacement decision) • Ranking of competing projects, Ranking of projects with unequal lives. Capital Rationing	**AM**
8 [L 10/Marks 10] **Dividend Decisions** • Meaning, Nature and Types of Dividend, Dividend and Retention; concept of pay-out ratio, retention ratio and growth. • Dividend policies and formulating a dividend policy • Dividend Theories: Walter's Model, Gordon's Model,	**AM**

HEAD
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