

Sammilani Mahavidyalaya



*E.M. Bypass, Baghajatin, Kolkata - 700094. Ph. No. 033 24626869
Email ID: principal.sammilani@gmail.com*

CRITERION - II TEACHING-LEARNING AND EVALUATION

QIM: 2.6.2 - Attainment of POs and COs are evaluated.

**PROGRAMME AND COURSE OUTCOME OF BENGALI HONOURS UNDER
CBCS**

Programme Outcomes

- **PO1:** Students will be Graduates with Bengali Honours degree after completing Bengali Honors course of 6 semesters in three years.
Students will grasp the literary essence of Bengali Classics and Texts to boost further studies. They can pursue higher studies in Bengali literature, Comparative literature, Linguistics, art and culture etc, after completing the course.
- **PO2:** Students can get a good foothold in Bengali grammar with a penchant towards creative-writing. Students can recognize and appreciate the cultural, social, and historical contexts in which Bengali literature has evolved and how it reflects the broader cultural heritage. They can acquire research aptitude through various seminars, extempore, debates and projects during the entire course and go for Research programmes.
- **PO3:** Through "Skill Enhancement Course", students learn Computer basics through MS Word, Excel, CorelDRAW, InDesign, PageMaker etc which can help them to develop skill on design, publication and production.
Students can pursue B.Ed and after clearing TET, UPSC examinations, NET/SET etc. they can avail School/College teachership or Government jobs.
- **PO4:** After completion of this course, students can join the course of Art and Culture, Journalism, Fine Arts Mass Communication, Acting and Performing Arts etc. to acquire further knowledge and can get into various professions involving these fields.
- **PO5:** Apart from above fields, through completion of Bengali Advance/General course, students can always choose professions like Translators, Interpreters, Proofreaders, Proof-Readers, Editing & Content-writing, Travel & Tourism etc.
- **PO6:** Other fields where students can involve themselves for future careers include Advertising & Marketing, Event Management, Human Resource, Retail etc.



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Programme Specific Outcome (PSO):

- **PSO1:** Students will be Graduates with Bengali Honours degree after completing Bengali Honors course of 6 semesters in three years.
Students will grasp the literary essence of Bengali Classics and Texts to boost further studies.
They can pursue higher studies in Bengali literature, Comparative literature, Linguistics, art and culture etc, after completing the course.

- **PSO2:** Students can get a good foothold in Bengali grammar with a penchant towards creative-writing.
Students can recognize and appreciate the cultural, social, and historical contexts in which Bengali literature has evolved and how it reflects the broader cultural heritage.
They can acquire research aptitude through various seminars, extempore, debates and projects during the entire course and go for Research programmes.

- **PSO3:** Through "Skill Enhancement Course", students learn Computer basics through MS Word, Excel, CorelDRAW, InDesign, PageMaker etc which can help them to develop skill on design, publication and production.
Students can pursue B.Ed and after clearing TET, UPSC examinations, NET/SET etc. they can avail School/College teachership or Government jobs.

- **PSO4:** After completion of this course, students can join the course of Art and Culture, Journalism, Fine Arts Mass Communication, Acting and Performing Arts etc. to acquire further knowledge and can get into various professions involving these fields.

- **PSO5:** Apart from above fields, through completion of Bengali Advance/General course, students can always choose professions like Translators, Interpreters, Proofreaders, Proof-Readers, Editing & Content-writing, Travel & Tourism etc.

- **PSO6:** Other fields where students can involve themselves for future careers include Advertising & Marketing, Event Management, Human Resource, Retail etc.


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Course Outcomes BNGA

Semester	Course Title	Course Outcome
SEM I CC-1	Bengali Literature in the Ancient-Medieval Ages Unit – I: BANGLA BHASA O SAHITYER ITIHAS, CHARJAPAD, SHREEKRISHNA KIRTAN Unit – II: ANUBAD SAHITYA, BOISHNOB PADABALI, CHARIT SAHITYA Unit – III: MANGAL KABYA, PRANOY UPAKHAYAN, SAKTO PADABALI	CO1 <ul style="list-style-type: none"> ● Students understand the primary/basic concept on the origin of Bengali Literature & Language ● They get acquainted with the trends of bengali literary practices prevalent in the Ancient-Medieval Period ● They form concepts on the nature of bengalis' literary practices before it started in Bengal
SEM I CC - 2	Bengali Linguistics Unit – I: DHANI, BARNA, etc Unit – II: BANGLA BHASA, DHANI PORIBARTANER RITI, UPOBHASA Unit – III: BACHAN, LINGO, PURUSH, SAMASH-etc	CO2 <ul style="list-style-type: none"> ● Students get an idea on the current form of bengali language, it's different elements and how it is constructed ● They get a thorough understanding of the internal structure of the Bengali language
SEM II CC - 3	Modern Literature Part I Unit – I: KABYA KABITA O NATAK-PRAHASAN Unit – II: KATHA SATHIYA O SAMAYIK PATRA Unit – III: GADYA O PRABANDHA	CO3 <ul style="list-style-type: none"> ● Students get an understanding about the dynamic nature of the first phase of modern Bengali literature ● They become aware of how renaissance took place centering around literature ● They acquire knowledge on the development of bengali prose, drama and periodicals
SEM II CC - 4	Poetry, Literary Fiction, Drama, Prose, Essay Unit – I: KABITA Unit – II: KATHA SATHIYA Unit – III: NATAK O PRABANDHA	CO4 <ul style="list-style-type: none"> ● Students understand the trend of evolution of Bengali poetry from ancient times to modern times ● They learn to read texts related to literary fictions, essays and dramas in an analytical way
SEM III CC - 5	Modern and Postmodern History of Bengali Literature Unit – I: KABYA-KABITA ONATAK Unit – II: KATHA SATHIYA Unit – III: GADYA PRABANDYA O SAMAYEK PATRA	CO5 <ul style="list-style-type: none"> ● Students get an accurate understanding of the dynamic nature of modern Bengali literature ● They learn about the direction of modern Bengali language practice ● They understand the speciality of all authors in Bengali Literature



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SEM III CC - 6	<p>History of Linguistics</p> <p>Unit – I: BHASHA, BHASHA PORIBAR</p> <p>Unit – II: PRACHIN BANGLAO MADYA BANGLA</p> <p>Unit – III: ANTYA MADYA BANGLA O ADHUNIK BANGLA</p>	<p>CO6</p> <ul style="list-style-type: none"> ● Students learn about the concepts of the origin of bengali language as well as other languages from all over India ● They form a concept on the connection of bengali language with other languages in India ● They get an understanding of the different levels of Indian Aryan language as well as that of the bengali language
SEM III CC - 7	<p>Bengali Literature</p> <p>Unit – I: UPONAYASH</p> <p>Unit – II: UPONAYASH</p> <p>Unit – III: CHOTO GALPO</p>	<p>CO7</p> <ul style="list-style-type: none"> ● Students develop an analytical viewpoint to the novels written by Rabindranath Tagore, Sarat Chandra Chattopadhyay, Manik Bandopadhyay and Mahashweta Devi ● They learn to critically evaluate the texts
SEC - A-3-1	<p>Printing and Publishing</p> <p>Unit – I: Preperation of Pandulapi, Title Page, Cover Page etc.</p> <p>Unit – II: Pagemaker, Coreldraw etc.</p> <p>Unit – III: Proof Correction, Binding, Marketing etc.</p>	<p>CSECA1</p> <ul style="list-style-type: none"> ● They get concepts about the dynamic nature of Bengali short stories along with their text assessment ● Students get acquainted to the practical basics of book printing and publishing ● They learn about how books are written, printed, bound and published
SEM IV CC - 8	<p>Prehistoric Literature</p> <p>Unit – I: BAISHNOBPADABALI</p> <p>Unit – II: CHANDIMANGAL(IST PART)</p> <p>Unit – III: SAKTO PADABALI</p>	<p>CO8</p> <ul style="list-style-type: none"> ● Students develop knowledge about the theories and application of Vaishnava Literature along with the nature of various prevalent rituals ● They also develop knowledge about the theories and application of “Shakto-Pada” Literature along with the nature of various prevalent rituals ● They develop an analytical perspective towards “Chandi Mangal”
SEM IV CC -9	<p>Rhythm, Ornamentation and Theory of Poetry</p> <p>Unit – I: CHANDO</p> <p>Unit – II: ALANKAR</p> <p>Unit – III: KABYATATTA, ANUKARANTATTA</p>	<p>CO9</p> <ul style="list-style-type: none"> ● Students grow a comprehensive understanding of the bengali rhythms ● They also develop a comprehensive understanding of the bengali ornamentation ● They develop an awareness of the various ancient Indian literary analytical methods through lessons containing theories of poetry


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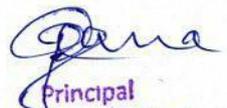
SEM IV CC -10	Essays in Bengali Literature Unit – I: KAMALAKANTER DAPTTAR Unit – II: SAHITYA, SAMALOCHANA Unit – III: CHINNAPATRA	CO10 <ul style="list-style-type: none">● Students develop concepts on the unique nature of various modern bengali essays● They form an analytical approach to certain texts of essays
SEC - B-4-2	Practicality of Bengali Language- 2 Unit – I: SRIJANSILRACHANA Unit – II: BANGLA BANAN O WEST BENGAL BANGLABANAN ACADEMI Unit – III: IPA O ROMIOLIPI	CSECB2 <ul style="list-style-type: none">● Students learn to improve their writing proficiency through writing stories, essays and various letters● They tend to develop concepts regarding Roman and IPA● They learn about the proper rules of bengali spelling
SEM V CC -11	Bengali Literary Style Unit – I: SRIJANSILRACHANA Unit – II: BANGLA BANAN O WEST BENGAL BANGLABANAN ACADEMI Unit – III: IPA O ROMIOLIPI	CO11 <ul style="list-style-type: none">● Students get acquainted to the basic and primary concepts of different forms of bengali literature● They form a fundamental idea of what bengali stories, essays, novels and dramas are
SEM V CC -12	Drama and Theater Unit – I: KABYA-KABITA, NATOK Unit – II: UPONAYAS O CHOTO GALPO Unit – III: PROBANDHA, SAMALOCHANA	CO12 <ul style="list-style-type: none">● Students develop an overall understanding of the history of Bengali Theater● They gain knowledge about the Drama


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DSE B-5-1	Bengali Literature on Children and Adolescents Unit – I: BANGLAR SAMAJ O SANSKRITIR ITIHAS Unit – II: BANGLAR SAMAJ O SANSKRITIR ITIHAS Unit – III: BANGLAR SAMAJ O SANSKRITIR ITIHAS	CDSEB1 <ul style="list-style-type: none"> ● Students learn about various bengali literature texts on children and adolescents along with the respective authors ● They get familiar with different forms of bengali literature on children and adolescents
SEM VI CC -13	Modern Bengali Poetry Unit – I: BIRANGANA KABYA Unit – II: SONAR TARI, SANCHITA Unit – III: EAKALER KABITA SANCHAYAN	CO13 <ul style="list-style-type: none"> ● Students get acquainted to different styles of modern bengali poetry ● They learn to analyze modern bengali poetry accurately
SEM VI CC -14	History of Sanskrit, English and Hindi Literature Unit – I: SANSKRIT SAHITYA Unit – II: ENGLISH LITERATURE Unit – III: PRATIBASHI SAHITYA	CO14 <ul style="list-style-type: none"> ● Students form a primary concept on the evolution of English literature ● They form a primary understanding on the evolution of Sanskrit Literature ● They develop a basic understanding on the evolution of Hindi literature
DSE A-6-3	Literatures on Detective, Science Fiction and Supernatural genres Unit – I: CHAITANYA BHAGABATH Unit – II: JIBANSMRITI Unit – III: DASHE BIDASHE	CDSEA3 <ul style="list-style-type: none"> ● Students learn about the various genres of Bengali detective literature; get acquainted to Satyajit Ray ● They learn about the genres of Bengali science fiction literature ● They learn about the genres of Bengali supernatural literature


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MAPPING OF CO, PO, PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓	✓			✓	✓	✓	✓		✓		✓
CO2	✓	✓		✓	✓	✓	✓				✓	✓
CO3	✓	✓			✓	✓	✓		✓		✓	✓
CO4	✓		✓		✓	✓	✓	✓			✓	✓
CO5		✓			✓	✓	✓	✓		✓	✓	✓
CO6		✓			✓	✓	✓				✓	✓
CO7	✓				✓	✓	✓	✓	✓		✓	✓
CO8	✓				✓	✓	✓		✓	✓	✓	✓
CO9	✓				✓	✓	✓	✓		✓	✓	✓
CO10		✓			✓	✓		✓	✓	✓	✓	✓
CO11	✓			✓		✓	✓	✓		✓	✓	✓
CO12	✓			✓		✓	✓		✓	✓	✓	✓
CO13	✓				✓	✓	✓		✓	✓	✓	✓
CO14	✓				✓	✓	✓		✓		✓	✓
CSECA1					✓	✓	✓			✓		
CSECB2					✓		✓		✓		✓	✓
CDSEA1	✓				✓		✓		✓	✓	✓	
CDSEA3			✓		✓	✓			✓		✓	✓
CDSEB1	✓				✓	✓		✓	✓	✓	✓	✓
CDSEB3				✓	✓	✓					✓	✓


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Attainment of Course & Programme Outcomes

The target of the Bengali Department is to implement the methodology of teaching learning process based on the syllabus of each course and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

Direct methods are employed to assess students' knowledge and skills in their regular assessment protocols. Class test, internal assessment tests, end semester examinations, seminars, laboratory assignments, practical classes and projects based on curriculum.

Indirect methods such as Add-on /Certificate courses, Departmental seminars, Educational tours, Poster presentation, Research projects etc. that enhance the students' knowledge, skill and self confidence which are essential for the progression of the students to higher studies and placements after completing graduation.

Also feedback given by each student reflects on students' views on Course and programme outcomes and their impact on learning and future applications.

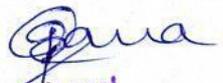
Following tables show the various methods used in the assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on: a) Listing and description of the assessment processes used to gather the data, and b) The frequency with which these assessment processes are carried out

Sl. No.	Direct Assessment Method	Assessment frequency	Description
1	Entry level assessment Test	Once for newly admitted 1st Sem (year) students	It is a surprise test taken at the beginning of the study of UG syllabus to assess students' knowledge at the (+2) level of study.
2	Internal Assessment Test	Once in a semester on each course	Internal Assessment is taken on full syllabus after completion. It will be for 10 marks of each course..
3	Class Test	Frequently	It is a method used to continuously assess the student's understanding capabilities.
4	End Semester Examination	Once in a semester	End Semester examinations (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student. End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July.

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5	Tutorial Examination	Once in a semester on each course	15 % of the total marks is assigned to the tutorial exam in each course which is distributed in equal marks distribution in Project copy, project presentation and viva-voce. These are conducted to assess student's conception, communication and presentation skills along with depth of the subject knowledge.
7	Attendance	As per CU rules	Total 10 Marks is allotted for all CBCS courses: The marks obtained of every course from Class Attendance by the students is the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered 8 marks for attending 75% or above but less than 90% of the number of lectures delivered 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)


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1. Internal assessment dates and record of marks:

ACADEMIC SESSION- 2020-2021

Date of Internal Evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of Question (Online/Offline)
10.11.2020	Sem I	CC1	CHARJAPAD	10	RC	MCQ & Short ans Type (Online)
18.11.2020		CC2	DHANI O BARNA	10	MCH	MCQ & Short ans Type (Online)
07.11.2020	Sem III	CC5	KABYA O KABITA	10	PM	MCQ & Short ans Type (Online)
08.11.2020		CC6	PRACHIN BANGLAO MADYA BANGLA	10	DS	MCQ & Short ans Type (Online)
10.11.2020		CC7	UPONAYASH	10	SM	MCQ & Short ans Type (Online)
05.11.2020	Sem V	CC11	KABYA O KABITA	10	RC	MCQ & Short ans Type (Online)
09.11.2020		CC12	BURO SALIKER GHARE RONYA – MADHUSUDHAN DUTTA	10	MCH	MCQ & Short ans Type (Online)
11.11.2020		DSE-A-5-1	BANGLAR SAMAJ OSANSKRITIR ITIHAS	10	PM	MCQ & Short ans Type (Online)
17.04.2021	Sem II	CC3	NATAK- PRAHASAN	10	SM	MCQ & Short ans Type (Online)
19.04.2021		CC4	KATHA SATHIYA	10	DS	MCQ & Short ans Type (Online)
18.04.2021	Sem IV	CC8	BAISHNOB ADABALI	10	RC	MCQ & Short ans Type (Online)
19.04.2021		CC9	CHANDO	10	MCH	MCQ & Short ans Type (Online)
22.04.2021		CC10	KAMALAKANTER DAPTTAR	10	PM	MCQ & Short ans Type (Online)
23.06.2021		SEC-B-IV	SRIJANSIL RACHANA	10	SM	MCQ & Short ans Type (Online)
10.08.2021	Sem VI	CC13	BIRANGANA KABYA	10	RC	MCQ & Short ans Type (Online)
12.08.2021		CC14	SANSKRIT SAHITYA	10	DS	MCQ & Short ans Type (Online)
13.08.2021		DSE-B-VI	CHAITANYA BHAGABATH	10	MCH	MCQ & Short ans Type (Online)



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10.11.2021	Sem I	CC1	BANGLA BHASA OSAHITYER ITIHAS	10	RC	MCQ & Short ans Type (Online)
18.11.2021		CC2	DHANI O BARNA	10	MCH	MCQ & Short ans Type (Online)
07.11.2021	Sem III	CC5	KABYA O KABITA	10	PM	MCQ & Short ans Type (Online)
08.11.2021		CC6	BHASHA O BHASHA PORIBAR	10	DS	MCQ & Short ans Type (Online)
10.11.2021		CC7	UPONAYASH O CHOTO GALPO	10	SM	MCQ & Short ans Type (Online)
05.11.2021	Sem V	CC11	NATOK	10	RC	MCQ & Short ans Type (Online)
09.11.2021		CC12	MUKTODHARA- RABINDRANATH TAGORE	10	MCH	MCQ & Short ans Type (Online)
11.11.2021		DSE-A-5- 1	BANGLAR SAMAJ O SANSKRITIR ITIHAS	10	PM	MCQ & Short ans Type (Online)
17.04.2022	Sem II	CC3	GADYA O PRABANDHA	10	SM	MCQ & Short ans Type (Online)
19.04.2022		CC4	KATHA SATHIYA	10	DS	MCQ & Short ans Type (Online)
18.04.2022	Sem IV	CC8	CHANDIMANGAL (1 ST PART)	10	RC	MCQ & Short ans Type (Online)
19.04.2022		CC9	CHANDO O ALANKAR	10	MCH	MCQ & Short ans Type (Online)
22.04.2022		CC10	EAKALER PRABANDHA SANCHANYAN	10	PM	MCQ & Short ans Type (Online)
23.06.2022		SEC-B-IV	SRIJANSIL RACHANA	10	SM	MCQ & Short ans Type (Online)
10.08.2022	Sem VI	CC13	SANCHITA	10	RC	MCQ & Short ans Type (Online)
12.08.2022		CC14	SANSKRIT SAHITYA O PRATIBASHI SAHITYA	10	DS	MCQ & Short ans Type (Online)
13.08.2022		DSE-B-VI	CHAITANYA BHAGABATH O JIBANSMRITI	10	MCH	MCQ & Short ans Type (Online)


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ACADEMIC SESSION- 2022-2023

Date of Internal Evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of Question (Online/Offline)
10.11.2022	Sem I	CC1	MANGAL KABYA, PRANOY UPAKHAYAN, SAKTO PADABALI	10	RC	MCQ & Short ans Type (Offline)
18.11.2022		CC2	BANGLA BHASA, DHANI PORIBARTANER RITI, UPOBHASA	10	MCH	MCQ & Short ans Type (Offline)
07.11.2022	Sem III	CC5	KABYA-KABITA O NATAK	10	PM	MCQ & Short ans Type (Offline)
08.11.2022		CC6	PRACHIN BANGLA O MADYA BANGLA	10	DS	MCQ & Short ans Type (Offline)
10.11.2022		CC7	UPONAYASH O CHOTO GALPO	10	SM	MCQ & Short ans Type (Offline)
05.11.2022	Sem V	CC11	PROBANDHA, SAMALOCHANA	10	RC	MCQ & Short ans Type (Offline)
09.11.2022		CC12	RANGAMANCHER ITIHAS	10	MCH	MCQ & Short ans Type (Offline)
11.11.2022		DSE-A-5-1	BANGLAR SAMAJ OSANSKRITIR ITIHAS	10	PM	MCQ & Short ans Type (Offline)
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19.04.2023		CC9	KABYATATTA, ANUKARANTATTA	10	MCH	MCQ & Short ans Type (Offline)
22.04.2023		CC10	CHINNAPATRA	10	PM	MCQ & Short ans Type (Offline)
23.06.2023		SEC-B-IV	SRIJANSIL RACHANA	10	SM	MCQ & Short ans Type (Offline)
10.08.2023	Sem VI	CC13	SONAR TARI	10	RC	MCQ & Short ans Type (Offline)
12.08.2023		CC14	ENGLISH LITERATURE	10	DS	MCQ & Short ans Type (Offline)
13.08.2023		DSE-B-VI	CHAITANYA BHAGABATH O JIBANSMRITI	10	MCH	MCQ & Short ans Type (Offline)



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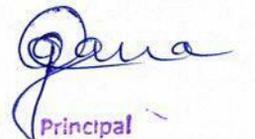
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11.11.2020		DSE-A-5-1	BANGLAR SAMAJ OSANSKRITIR ITIHAS	15	PM	MCQ & Short ans Type (Online)
17.04.2021	Sem II	CC3	NATAK- PRAHASAN	15	SM	MCQ & Short ans Type (Online)
19.04.2021		CC4	KATHA SATHIYA	15	DS	MCQ & Short ans Type (Online)
18.04.2021	Sem IV	CC8	BAISHNOB ADABALI	15	RC	MCQ & Short ans Type (Online)
19.04.2021		CC9	CHANDO	15	MCH	MCQ & Short ans Type (Online)
22.04.2021		CC10	KAMALAKANTER DAPTTAR	15	PM	MCQ & Short ans Type (Online)
23.06.2021		SEC-B-IV	SRIJANSIL RACHANA	15	SM	MCQ & Short ans Type (Online)
10.08.2021	Sem VI	CC13	BIRANGANA KABYA	15	RC	MCQ & Short ans Type (Online)
12.08.2021		CC14	SANSKRIT SAHITYA	15	DS	MCQ & Short ans Type (Online)
13.08.2021		DSE-B-VI	CHAITANYA BHAGABATH	15	MCH	MCQ & Short ans Type (Online)


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Department of Bengali
ACADEMIC SESSION- 2021-2022

Date of Tutorial Evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of Question (Online/Offline)
10.11.2021	Sem I	CC1	BANGLA BHASA OSAHITYER ITIHAS	15	RC	MCQ & Short ans Type (Online)
18.11.2021		CC2	DHANI O BARNA	15	MCH	MCQ & Short ans Type (Online)
07.11.2021	Sem III	CC5	KABYA O KABITA	15	PM	MCQ & Short ans Type (Online)
08.11.2021		CC6	BHASHA O BHASHA PORIBAR	15	DS	MCQ & Short ans Type (Online)
10.11.2021		CC7	UPONAYASH O CHOTO GALPO	15	SM	MCQ & Short ans Type (Online)
05.11.2021	Sem V	CC11	NATOK	15	RC	MCQ & Short ans Type (Online)
09.11.2021		CC12	MUKTODHARA- RABINDRANATH TAGORE	15	MCH	MCQ & Short ans Type (Online)
11.11.2021		DSE-A-5- I	BANGLAR SAMAJ O SANSKRITIR ITIHAS	15	PM	MCQ & Short ans Type (Online)
17.04.2022	Sem II	CC3	GADYA O PRABANDHA	15	SM	MCQ & Short ans Type (Online)
19.04.2022		CC4	KATHA SATHIYA	15	DS	MCQ & Short ans Type (Online)
18.04.2022	Sem IV	CC8	CHANDIMANGAL (1 ST PART)	15	RC	MCQ & Short ans Type (Online)
19.04.2022		CC9	CHANDO O ALANKAR	15	MCH	MCQ & Short ans Type (Online)
22.04.2022		CC10	EAKALER PRABANDHA SANCHANYAN	15	PM	MCQ & Short ans Type (Online)
23.06.2022		SEC-B-IV	SRIJANSIL RACHANA	15	SM	MCQ & Short ans Type (Online)
10.08.2022	Sem VI	CC13	SANCHITA	15	RC	MCQ & Short ans Type (Online)
12.08.2022		CC14	SANSKRIT SAHITYA O PRATIBASHI SAHITYA	15	DS	MCQ & Short ans Type (Online)
13.08.2022		DSE-B-VI	CHAITANYA BHAGABATH O JIBANSMRITI	15	MCH	MCQ & Short ans Type (Online)



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ACADEMIC SESSION- 2022-2023

Date of Tutorial Evaluation	Semester	Course	Topic	Full Marks	Taken by	Pattern of Question (Online/Offline)
10.11.2022	Sem I	CC1	MANGAL KABYA, PRANOY UPAKHAYAN, SAKTO PADABALI	15	RC	MCQ & Short ans Type (Offline)
18.11.2022		CC2	BANGLA BHASA, DHANI PORIBARTANER RITI, UPOBHASA	15	MCH	MCQ & Short ans Type (Offline)
07.11.2022	Sem III	CC5	KABYA-KABITA O NATAK	15	PM	MCQ & Short ans Type (Offline)
08.11.2022		CC6	PRACHIN BANGLA O MADYA BANGLA	15	DS	MCQ & Short ans Type (Offline)
10.11.2022		CC7	UPONAYASH O CHOTO GALPO	15	SM	MCQ & Short ans Type (Offline)
05.11.2022	Sem V	CC11	PROBANDHA, SAMALOCHANA	15	RC	MCQ & Short ans Type (Offline)
09.11.2022		CC12	RANGAMANCHER ITIHAS	15	MCH	MCQ & Short ans Type (Offline)
11.11.2022		DSE-A-5-1	BANGLAR SAMAJ OSANSKRITIR ITIHAS	15	PM	MCQ & Short ans Type (Offline)
17.04.2023	Sem II	CC3	GADYA O PRABANDHA	15	SM	MCQ & Short ans Type (Offline)
19.04.2023		CC4	NATAK O PRABANDHA	15	DS	MCQ & Short ans Type (Offline)
18.04.2023	Sem IV	CC8	CHANDIMANGAL (1 ST PART)	15	RC	MCQ & Short ans Type (Offline)
19.04.2023		CC9	KABYATATTA, ANUKARANTATTA	15	MCH	MCQ & Short ans Type (Offline)
22.04.2023		CC10	CHINNAPATRA	15	PM	MCQ & Short ans Type (Offline)
23.06.2023		SEC-B-IV	SRIJANSIL RACHANA	15	SM	MCQ & Short ans Type (Offline)
10.08.2023	Sem VI	CC13	SONAR TARI	15	RC	MCQ & Short ans Type (Offline)
12.08.2023		CC14	ENGLISH LITERATURE	15	DS	MCQ & Short ans Type (Offline)
13.08.2023		DSE-B-VI	CHAITANYA BHAGABATH O JIBANSMRITI	15	MCH	MCQ & Short ans Type (Offline)


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2. Results of 2018,19,20,21,22

2018

Roll No.	Grade	Result	Status
1001001001	B	522	P
1001001002	B	488	P
1001001003	B	547	P
1001001004	B	526	P
1001001005	B	519	P
1001001006	B	530	P
1001001007	B	504	P
1001001008	B	585	P
1001001009	B	574	P
1001001010	B	536	P
1001001011	B	511	P
1001001012	B	655	P
1001001013	B	617	P
1001001014	B	523	P
1001001015	B	564	P
1001001016	B	476	P
1001001017	B	447	P
1001001018	B	575	P
1001001019	B	456	P
1001001020	B	534	P
1001001021	B	515	P
1001001022	B	425	P
1001001023	B	416	P
1001001024	B	511	P
1001001025	B	526	P
1001001026	B	491	P
1001001027	B	521	P
1001001028	B	460	P
1001001029	B	595	P
1001001030	B	423	P

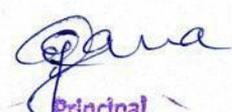
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Department of Bengali

2019

B.A. RESULT-2019
(1st-150 Marks)

SL. NO.	NAME	STREAM	ROLL NO.	MARKS	PERCENTAGE
1	SOMA JANA	BNGA	2513-51-0001	513-022-0240-18	24.00
2	RIYA PRAMANIK	BNGA	2513-51-0002	513-022-0241-18	24.00
3	SABINA CHOWDHURY	BNGA	2513-51-0003	513-022-0242-18	24.00
4	HACHINA BHANDARI	BNGA	2513-51-0004	513-022-0243-18	24.00
5	MDUMITA GHOSH	BNGA	2513-51-0005	513-022-0244-18	24.00
6	MEGHA MUKHERJEE	BNGA	2513-51-0006	513-022-0245-18	24.00
7	SUSMITA BOSE	BNGA	2513-51-0007	513-022-0246-18	24.00
8	INDRANI DEWAS	BNGA	2513-51-0008	513-022-0247-18	24.00
9	SONALI NASKAR	BNGA	2513-51-0009	513-022-0248-18	24.00
10	RINA HALDER	BNGA	2513-51-0010	513-022-0249-18	24.00
11	NIVA MONDAL	BNGA	2513-51-0011	513-022-0250-18	24.00
12	PALLABI DAS	BNGA	2513-51-0012	513-022-0251-18	24.00
13	TITHI MONDAL	BNGA	2513-51-0013	513-022-0252-18	24.00
14	SOMA MISTRY	BNGA	2513-51-0014	513-022-0253-18	24.00
15	MOUSUMI BANSHAB	BNGA	2513-51-0015	513-022-0254-18	24.00
16	SOHINI MONDAL	BNGA	2513-51-0016	513-022-0255-18	24.00
17	SUBHRA NAIYA	BNGA	2513-51-0017	513-022-0256-18	24.00
18	REBA MONDAL	BNGA	2513-51-0018	513-022-0257-18	24.00
19	SAYANI MONDAL	BNGA	2513-51-0019	513-022-0258-18	24.00
20	SUMANA DAS	BNGA	2513-51-0020	513-022-0259-18	24.00
21	KARABI MONDAL	BNGA	2513-51-0021	513-022-0260-18	24.00
22	SUPRIYA RAY	BNGA	2513-51-0022	513-022-0261-18	24.00
23	PRASANTA PATRA	BNGA	2513-51-0023	513-022-0262-18	24.00
24	TAMAL KUMAR HALDER	BNGA	2513-51-0024	513-022-0263-18	24.00
25	PINTU MONDAL	BNGA	2513-51-0025	513-022-0264-18	24.00
26	ADHESHEK HALDER	BNGA	2513-51-0026	513-022-0265-18	24.00
27	SATTYAJIT JOARDAR	BNGA	2513-51-0027	513-022-0266-18	24.00
28	SADAB MALLICK	BNGA	2513-51-0028	513-022-0267-18	24.00


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Department of Bengali
2020

2020

1	সম্মিলনী মহাবিদ্যালয়	F	OBC-A	BNGA	2513-51-0034	513-1215-0167-17	555	I
2	সম্মিলনী মহাবিদ্যালয়	F	OBC-A	BNGA	2513-51-0035	513-1215-0225-17	519	I
3	সম্মিলনী মহাবিদ্যালয়	F	GEN	BNGA	2513-51-0036	513-1221-0951-16	510	I
4	সম্মিলনী মহাবিদ্যালয়	F	GEN	BNGA	2513-51-0037	513-1221-0649-16		PNC
5	সম্মিলনী মহাবিদ্যালয়	F	SC	BNGA	2513-51-0038	513-1221-1076-16		PNC
6	সম্মিলনী মহাবিদ্যালয়	F	SC	BNGA	2513-51-0039	513-1222-0002-16		PNC
7	সম্মিলনী মহাবিদ্যালয়	F	SC	BNGA	2513-51-0040	513-1222-0869-16		PNC
8	সম্মিলনী মহাবিদ্যালয়	F	OBC	BNGA	2513-51-0041	513-1221-0864-16	556	II
9	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0002	513-1122-0387-16	476	II
10	সম্মিলনী মহাবিদ্যালয়	M	GEN	BNGA	2513-51-0003	513-1111-0168-17		PNC
11	সম্মিলনী মহাবিদ্যালয়	M	OBC-B	BNGA	2513-51-0004	513-1111-0210-17	533	I
12	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0005	513-1111-0268-17		PNC
13	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0006	513-1111-0871-17		PNC
14	সম্মিলনী মহাবিদ্যালয়	M	OBC-B	BNGA	2513-51-0007	513-1112-0118-17	501	I
15	সম্মিলনী মহাবিদ্যালয়	M	OBC-B	BNGA	2513-51-0008	513-1112-0121-17	497	I
16	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0009	513-1112-0258-17		PNC
17	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0010	513-1112-0260-17	509	I
18	সম্মিলনী মহাবিদ্যালয়	M	EF	BNGA	2513-51-0011	513-1112-0707-17		PNC
19	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0012	513-1113-0135-17	503	I
20	সম্মিলনী মহাবিদ্যালয়	M	SC	BNGA	2513-51-0013	513-1114-0117-17	474	II
21	সম্মিলনী মহাবিদ্যালয়	M	OBC-A	BNGA	2513-51-0014	513-1114-0249-17	499	I
22	সম্মিলনী মহাবিদ্যালয়	M	OBC-B	BNGA	2513-51-0015	513-1115-0146-17	476	II
23	সম্মিলনী মহাবিদ্যালয়	M	OBC-B	BNGA	2513-51-0016	513-1122-0115-18	484	I

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 Department of Bengali
2021

RESULT-2021

5.4

SL. NO.	REGS. NO.	ROLL NO.	MARKE
1	513-1211-0107-18		সুবিধা পাবনা নগর
2	513-1212-0170-18		পার্বত্য সড়ক
3	513-1212-0180-18		প্রকৃতি ভাষা
4	513-1211-0181-18		পুস্তক সংগ্রহ
5	513-1212-0216-18		সংস্কৃত মঞ্চ
6	513-1212-0109-18		সংস্কৃত ভাষা
7	513-1212-0300-18		উচ্চমাধ্যমিক
8	513-1214-0706-18		উচ্চমাধ্যমিক
9	513-1212-0010-18		সংস্কৃত ভাষা
10	513-1211-0221-18		সংস্কৃত ভাষা
11	513-1211-0224-18		সংস্কৃত ভাষা
12	513-1212-0143-18		সংস্কৃত ভাষা
13	513-1211-0145-18		সংস্কৃত ভাষা
14	513-1211-0270-18		সংস্কৃত ভাষা
15	513-1211-0372-18		সংস্কৃত ভাষা
16	513-1212-0174-18		সংস্কৃত ভাষা
17	513-1212-0286-18		সংস্কৃত ভাষা
18	513-1212-0380-18		সংস্কৃত ভাষা
19	513-1211-0710-18		সংস্কৃত ভাষা
20	513-1211-0845-18		সংস্কৃত ভাষা
21	513-1212-0188-18		সংস্কৃত ভাষা
22	513-1211-1301-18		সংস্কৃত ভাষা
23	513-1212-0395-18		সংস্কৃত ভাষা
24	513-1212-0382-18		সংস্কৃত ভাষা
25	513-1212-0315-18		সংস্কৃত ভাষা
26	513-1212-0317-18		সংস্কৃত ভাষা
27	513-1212-0277-18		সংস্কৃত ভাষা
28	513-1212-0353-18		সংস্কৃত ভাষা
29	513-1212-0356-18		সংস্কৃত ভাষা
30	513-1212-0761-18		সংস্কৃত ভাষা

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Department of Bengali
2022

RESULT-2022

ROLL NO.	NAME	CGPA	MARKS	STATUS	SUB	MOB.NO.
1	ABHINAV KUMAR	6.827	246	SC	BNGA	7664837913
2	ABHINAV KUMAR	6.486	231	SC	BNGA	81015048874
3	ABHINAV KUMAR	6.271	222	SC	BNGA	83158150128
4	ABHINAV KUMAR	6.588	238	SC	BNGA	81017927214
5	ABHINAV KUMAR	6.089	213	SC	BNGA	9788819298
6	ABHINAV KUMAR	6.528	234	SC	BNGA	9988251700
7	ABHINAV KUMAR	6.528	234	SC	BNGA	9300156713
8	ABHINAV KUMAR	6.528	234	SC	BNGA	7489226922
9	ABHINAV KUMAR	6.528	234	SC	BNGA	8681298183
10	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
11	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
12	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
13	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
14	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
15	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
16	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
17	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
18	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
19	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
20	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
21	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
22	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
23	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
24	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
25	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
26	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
27	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
28	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
29	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
30	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
31	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
32	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
33	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
34	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
35	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
36	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
37	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
38	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
39	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
40	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
41	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
42	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
43	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
44	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
45	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
46	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
47	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
48	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
49	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
50	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
51	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
52	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
53	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
54	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
55	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
56	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
57	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
58	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
59	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
60	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
61	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
62	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
63	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
64	ABHINAV KUMAR	6.528	234	SC	BNGA	8116981487
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Baghajatin, E. M. Bypass, Kolkata-700094
Department of Bengali

INDIRECTMETHOD

SURVEYISCONDUCTEDTHROUGHQUESTIONNAIREFORRATI
NGANDRELATIONOFFPOsANDPSOs

Questions Responses **29** Settings

Feed Back: Attainment of the Course

Current 3rd & 5th semester students and Pass out students of 2021, 2022 & 2023 are asked to give feedback on attainment of the course through the following form.

Email *

Valid email

This form is collecting emails. [Change settings](#)

Name of Student *

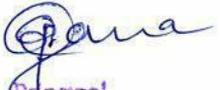
Short answer text

CU Registration Number *

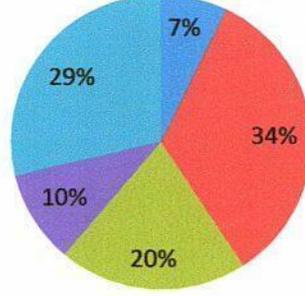
Short answer text

Batch *

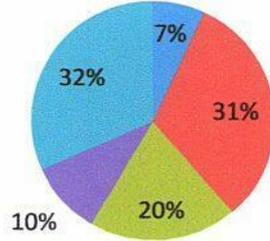
1. 2018-21
2. 2019-22
3. 2020-23


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এই কোর্সটি তোমাদের আগ্রহ জাগাতে কতটা সাহায্য করেছে?

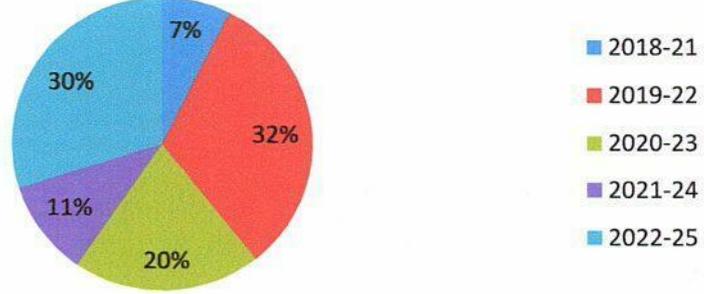


তোমাদের স্নাতকস্তরে এই কোর্সটি জ্ঞান বাড়াতে কতটা সাহায্য করেছে

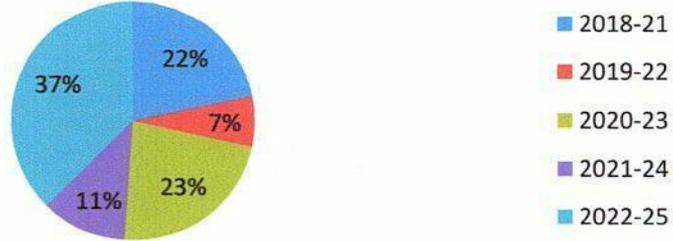


Gana
Principal

নানাবিষয়ে বোধের বিকাশে এই
কোর্সটি কতখানি সাহায্য করেছে?

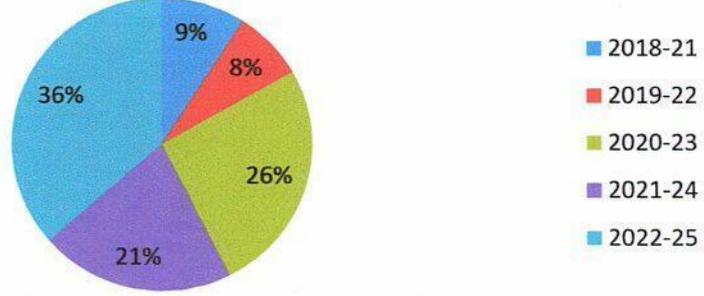


ব্যবহারিক জীবনে এই কোর্সটি
তোমাদের কতখানি সহায়ক হয়ে
উঠেছে?



Gana
Principal

আধুনিক জীবনে মাতৃভাষার প্রয়োজন কতখানি?

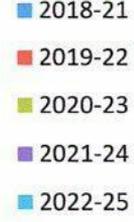
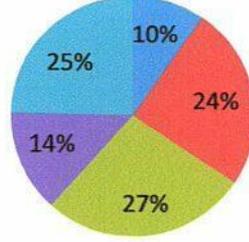


জটিল চিন্তনের বা গবেষণার ক্ষেত্রে বঙ্গভাষা ও সাহিত্যের প্রয়োজন কতখানি?

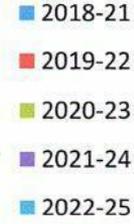
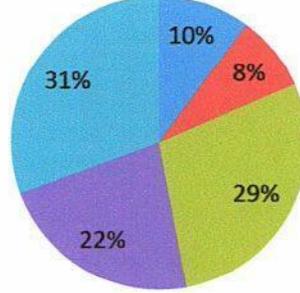


Jana
Principal

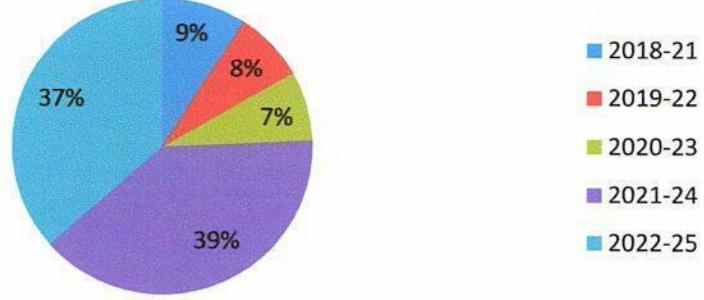
সময়ের অগ্রগতির সঙ্গে সঙ্গে
তোমার ভাষা ও সাহিত্যের
প্রাসঙ্গিকতা কতখানি?



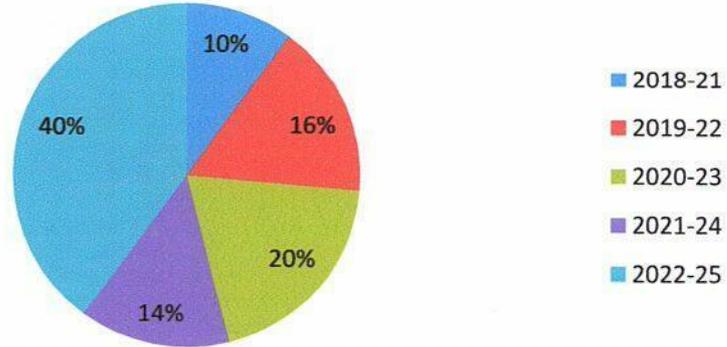
কর্মজীবনে প্রবেশের ক্ষেত্রে এই
কোর্সটির তোমার প্রয়োজন আছে
কিনা?



উচ্চশিক্ষার ক্ষেত্রে এই কোর্সটি কতখানি উৎসাহ দিয়েছে?



জাতীয় ও আন্তর্জাতিক স্তরে এই কোর্সটির প্রাসঙ্গিকতা কতখানি?




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Department of Bengali

Sl. No.	Questions	Total Weighted Sum	Total Response	Weighted Average
১	এইকোর্সটিতোমাদেরআগ্রহজাগাতেকতটাসাহায্যকরেছে?	130	29	4.48
২	তোমাদেরস্নাতকস্তরেএইকোর্সটিজ্ঞানবাড়াতেকতটাসাহায্যকরেছে?	124	29	4.28
৩	নানাবিষয়েবোধেরবিকাশেএইকোর্সটিকতখানিসাহায্যকরেছে?	119	29	4.1
৪	ব্যবহারিকজীবনেএইকোর্সটিতোমাদেরকতখানিনিসহায়কহয়েউঠেছে?	122	29	4.21
৫	আধুনিকজীবনেমাতৃভাষারপ্রয়োজনকতখানি?	125	29	4.31
৬	জটিলচিন্তনেরবাগবেষণারক্ষেত্রেবঙ্গভাষাওসাহিত্যেরপ্রয়োজনকতখানি?	130	29	4.48
৭	সময়েরঅগ্রগতিরসঙ্গেসঙ্গেতোমারভাষাওসাহিত্যেরপ্রাসঙ্গিকতাকতখানি?	123	29	4.24
৮	কর্মজীবনেপ্রবেশেরক্ষেত্রেএইকোর্সটিরতোমারপ্রয়োজনআছেকিনা?	123	29	4.24
৯	উচ্চশিক্ষারক্ষেত্রেএইকোর্সটিকতখানিউৎসাহদিয়েছে?	122	29	4.21
১০	জাতীয়ওআন্তর্জাতিকস্তরেএইকোর্সটিরপ্রাসঙ্গিকতাকতখানি?	118	29	4.07
OverallAverage=				4.26


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Department of Education

**Program Specific Outcomes For B.A. Under-Graduate Education Honours
and General course, 2018 (Duration 3 years) under CBCS system**

PO1. Students after completion of Education Honours course of 6 semesters in three years will be Graduates having Education Honours degree will learn to use their knowledge in understanding the philosophy behind various educational policy and planning from the ancient period to modern age

PO2. They will develop advanced critical thinking skills along with teaching aptitude.

PO3. They will develop abilities for understanding the history of education.

PO4. Students will be able to use and analyze their newly acquired knowledge in various fields of social science as Education is a multi-disciplinary subject.

PO5. They will have research aptitude which will help them to participate in any research related activities.

PO6. They will be well aware of Information and Communication technology and hence will acquire ICT skills.

PO7. Students will develop knowledge about statistics and will be able to analyze data statistically.

PO8. Knowledge of Educational psychology along with the knowledge of Psychology of adjustment and Guidance and Counselling will prepare them to deal with behaviour of human being and enable them to pursue their career as therapist, school guidance officer, counsellor.

Programme Specific Outcome (PSO)

- **PSO1:** Extensive knowledge of History of Education, Philosophical bases of Education and Sociology of Education will enable the students to understand the vast culture of Indian traditional knowledge. It will build in them the ability through competing interrelations and multi narratives of the past, will be able to understand the multi-causal explanations of major historical development in the field of education based on contextualized analysis of interrelated philosophical, social, economic, cultural and intellectual process.
- **PSO2:** The course will expose the students to the vast field of educational psychology where they will learn about the various theories and principles of schools of psychology, learning, motivation, intelligence and personality and how these theories can be applied in the modern educational settings. As a result, they learn about the various instructional techniques that can be applied in the modern classroom settings. They will also learn about need for inclusive setting in education.
- **PSO3:** Students are exposed to a vast knowledge of Educational Measurement, Evaluation and Statistics where they learn about different measuring techniques and test in education and psychology. They are also exposed to the basic concept of statistics


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and its various use in education. They will also have knowledge about research methodology.

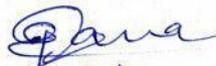
- **PSO4:** The practical aspect of the programme enables the students to gain first hand knowledge about various psychological tests and use of statistical procedures in education.
- **PSO5:** The course also throws light on Educational organization and importance of Guidance and Counselling in the field of education. The students learn the principles of educational organization, management and planning. They understand what role planning and management play in any educational organization. They also get a knowledge of importance of guidance and counselling at all the stages of education.
- **PSO6:** Skill enhancement courses enables the student to develop communication skill and teaching skills. It enhances their knowledge in the field of effective communication. They understand the role of effective listening and speaking in the field of teaching learning. They learn about various teaching styles and designs.
- **PSO7:** Discipline specific courses allows them to study their selected paper in details where they learn about educational ideas of Great Educators both western and Indian thinkers. They also understand the basic concept of gender studies, gender role and gender stereo types.

Course Outcomes

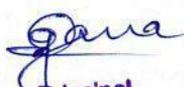
Semester	Course Title	Course Outcome
I	CC – 1 = Introduction to Education	CO1 <ul style="list-style-type: none"> • Students understand the meaning, nature, scope and aims of education. • They can explain the factors of education and their interrelationship. • They become aware of different agencies of education that influence education. • They are acquainted with the concept of child-centricism and play-way in education
	CC – 2 = History of Indian Education	CO2 <ul style="list-style-type: none"> • Students get acquainted with the salient features of education in India during ancient and medieval times. • They get acquainted with the development of education in British India. • They become aware of the significant points of selected education commissions & national policy of education in independent India
II	CC – 3 = Psychological Foundation of Education	CO3 <ul style="list-style-type: none"> • Students acquire knowledge about the meaning of Psychology its different aspects. • They know the patterns of different aspects of human development and relate this knowledge with education.


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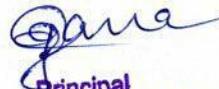
		<ul style="list-style-type: none"> To develop knowledge of cognitive approach of development and thus understand the process and factors of cognition. They get acquainted with concepts and theories of learning, memorization and intelligence.
	CC – 4 = Philosophical Foundation of Education	CO4 <ul style="list-style-type: none"> They get knowledge of the meaning, relation and importance of philosophy and education They get acquainted with both the Indian and the Western schools of philosophy along their impact on education. Students have an understanding of philosophy for development of humanity
III	CC – 5 = Sociological Foundation of Education Management and Planning	CO5 <ul style="list-style-type: none"> Students understand the relation between Sociology and Education .Nature, and scope of Sociology of education. They can explain the concept of Social Groups and Socialization process. They are able to understand the concept of Social change and Social interaction in education. They become aware of social Communication in Education
	CC – 6 = Educational Organization,	CO6 <ul style="list-style-type: none"> The concept organization, management, school organization and educational management is developed in the students. They know the essential functions of educational management. They understand the concept and different aspects of Educational Planning.
	CC – 7 = Guidance and Counselling	CO7 <ul style="list-style-type: none"> They become aware of the concept of Guidance and Counseling. They know various types of Guidance and Counselling. They get acquainted with the basic data necessary for Guidance.
	SEC – A = Communication Skills	CSECA1 <ul style="list-style-type: none"> They understand the basic elements of Communication. They acquire the knowledge of Listening Skills. They acquire the knowledge of Speaking Skills.


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		<ul style="list-style-type: none"> • They acquire the knowledge of Reading and Writing Skills.
IV	CC – 8 = Technology in Education	<p>CO8</p> <ul style="list-style-type: none"> • Students develop an understanding of educational technology. • They get acquainted with the concept and components of system approach. • Students develop an understanding of the use of computer in education and communication. • They get acquainted with the instructional techniques and different models of teaching. • They develop an understanding of ICT & e-learning.
	CC – 9 = Curriculum Studies	<p>CO9</p> <ul style="list-style-type: none"> • Students develop an understanding about concept, nature, types and major approaches of curriculum • They develop an understanding about curriculum development and national curriculum frame work, 2005. • They develop an understanding of evaluation & reform of curriculum
	CC – 10 = Inclusive Education	<p>CO10</p> <ul style="list-style-type: none"> • Students understand the meaning of Inclusion and exclusion. • They know the types of exclusion and their causes. • They know about differently abled people and different types of disabilities. • They get aware about how to bring about inclusion in different spheres.
	SEC – B = Teaching Skill	<p>CSECB2</p> <ul style="list-style-type: none"> • They know the basic concept of Teaching. • They know the different types of Teaching. • They understand the Skills of Teaching. • They learn the Concept of Learning Design (LD)
V	CC – 11 = Measurement and Evaluation in Education	<p>CO11</p> <ul style="list-style-type: none"> • Student develop an understanding of the concepts of measurement and evaluation in education. • They get acquainted with different types of measuring instruments and their uses. • They develop an understanding of the concepts of validity and reliability and their importance in educational measurement.


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		<ul style="list-style-type: none"> • They get acquainted with the principles of test construction.
	CC – 12 = Statistics in Education	<p>CO12</p> <ul style="list-style-type: none"> • The concept of statistics and skill in analyzing descriptive measures is developed in the students. • They get acquainted with the concept of Normal Probability Curve and its uses in education. • They develop the concept of measures of relationship. • They develop the ability to organize relevant educational data and are able to represent them through graphs. • They develop skill in analyzing and displaying data. • They get practical knowledge of tabulating score and analyzing them statistically.
	DSE A2- Educational Thought of Great Educators	<p>CDSE A2</p> <ul style="list-style-type: none"> • Students develop an understanding of educational ideas of Indian and Western Educators. • They understand pedagogical concepts given by Indian and Western educational thinkers.
	DSE B1- Teacher Education	<p>CDSEB1</p> <ul style="list-style-type: none"> • They understand the basic concept of teacher education. • They can explain the historical perspective and development of teacher education in India. • They understand the Role of the different agencies in teacher education. • To make an idea about some Courses for preparation of teacher.
VI	CC – 13 = Psychology of Adjustment	<p>CO13</p> <ul style="list-style-type: none"> • They understand the concept of adjustment, maladjustment and some commonly found problem behavior. • They know the multi-axial classification of mental disorders. • They become aware about different coping strategies for stressful situation. • They develop the knowledge of the administration, scoring and interpretation of the psychological tests.
	CC – 14 = Basic Concept of Educational Research	<p>CO14</p> <ul style="list-style-type: none"> • They develop a concept of educational research.


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		<ul style="list-style-type: none"> • They learn about the various steps to be followed for conducting a research. • They learn how to write a research proposal and review research papers
	DSE A3= Gender and Society	<p>CDSEA3</p> <ul style="list-style-type: none"> • They understand the basic terms, concepts used in gender studies. • They understand the gender discrimination in construction and dissemination of knowledge. • They develop an awareness and sensitivity.
	DSE B4= Women Education	<p>CDSEB4</p> <ul style="list-style-type: none"> • They know the historical perspectives of Women Education. • They know the Policy Perspectives and Committees and Commissions on Women Education. • They understand the role of Indian thinkers towards Women Education. • They identify major constraints of Women Education and Women Empowerment.


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Mapping of PO, CO and PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	✓	✓		✓	✓				✓	✓					
CO2	✓	✓	✓	✓	✓				✓						✓
CO3				✓	✓	✓		✓		✓	✓	✓			
CO4	✓	✓		✓	✓				✓						✓
CO5	✓	✓	✓	✓	✓				✓						
CO6	✓	✓		✓	✓	✓			✓	✓			✓		
CO7		✓		✓	✓			✓		✓			✓		
CO8	✓	✓		✓	✓					✓	✓			✓	
CO9	✓	✓		✓	✓	✓		✓	✓						
CO10	✓	✓		✓	✓		✓			✓			✓		
CO11		✓		✓			✓			✓	✓				
CO12		✓		✓	✓		✓			✓	✓	✓			
CO13		✓		✓				✓				✓			
CO14		✓		✓	✓							✓			
CSEC A1		✓		✓		✓								✓	
CSEC A2	✓			✓		✓		✓						✓	
CDSE A2	✓	✓		✓				✓							✓
CDSE B1	✓	✓		✓		✓									✓
CDSE A3	✓	✓		✓		✓									✓
CDSE B4	✓	✓	✓	✓		✓			✓						✓


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Sammilani Mahavidyalaya
Department of Education
Attainment of Course & Programme Outcomes

The target of the Education Department is to implement the methodology of teaching learning process based on the syllabus of each course and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

Direct methods are employed to assess students' knowledge and skills in their regular assessment protocols. Class test, internal assessment tests, end semester examinations, seminars, laboratory assignments, practical classes and projects based on curriculum.

Indirect methods such as Add-on /Certificate courses, Departmental seminars, Educational tours, Mathematical quiz contests, Poster presentation, Research projects etc. that enhance the students' knowledge, skill and self confidence which are essential for the progression of the students to higher studies and placements after completing graduation.

Also feedback given by each student reflects on students' views on Course and programme outcomes and their impact on learning and future applications.

Following tables show the various methods used in the assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on: a) Listing and description of the assessment processes used to gather the data, and b) The frequency with which these assessment processes are carried out.

Sl. No.	Direct Assessment Method	Assessment frequency	Description
1.	Entry level assessment Test	Once for newly admitted 1st Sem (year) students	It is a surprise test taken at the beginning of the study of UG syllabus to assess students' knowledge at the (+2) level of study.
2.	Internal Assessment Test	Once in a semester on each course	Internal Assessment is taken on full syllabus after completion. It will be for 10 marks of each course..
3.	Class Test	Frequently	It is a method used to continuously assess the student's understanding capabilities.
4.	End Semester Examination	Once in a semester	End Semester examinations (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student. End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July


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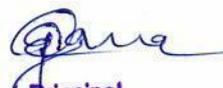
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5.	Practical Semester Examination	In 5 th and 6th semester only	End Semester practical examinations assess whether all the students have acquired the practical applications of the particular subject by hands-on training. Examinations are held along with the theoretical schedule
6.	Tutorial Examination	Once in a semester on each course except the paper where practical is there	15 % of the total marks is assigned to the tutorial exam in each course which is distributed in equal marks distribution in Project copy, project presentation and viva-voce. These are conducted to assess student's conception, communication and presentation skills along with depth of the subject knowledge.
7.	Attendance	As per CU rules	Total 10 Marks is allotted for all CBCS courses: The marks obtained of every course from Class Attendance by the students is the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered 8 marks for attending 75% or above but less than 90% of the number of lectures delivered 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)

Internal assessment dates and record of marks

**DEPARTMENT of EDUCATION
Academic session – 2020-2021 (Odd Semester)
5th Semester**

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
07.01.21	5th	DSE A2	Rabindranath Tagore	15	SN	Online Viva
09.01.21	5th	CC11	Evaluation-Concept and scales	10	MB	Online Viva
09.01.21	5th	CC12	Measure of Central tendency and Measure of variability	20	MC	Short answer type Online


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11.01.21	5TH	DSE B1	Teacher Education- Concept, scope aims and objectives	20	AG	Short answer type Online
13.01.21	5TH	DSEA2	Plato & Rousseau	20	ST	Online Viva
26.02.21	5TH	CC11	Evaluation in Education	10	MB	Short answer type (Online)
26.02.21	5TH	CC12	Statistics in Education	10	MC	Short answer type (Online)
27.02.21	5TH	DSE A2	Educational thought of Great Educators	10	ST/SN	Short answer type (Online)
27.02.21	5TH	DSE B1	Teacher Education	10	AG/SN	Short answer type (Online)

3rd SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
31.01.21	3rd	CC7	Counselling concept types and techniques	10	MC	Oral Exam Online
03.02.21	3 rd	CC6	Educational Organization	20	MB	Short answer type (Online)
02.01.21	3 rd	SECA1	Teaching skill	10	AG	MCQ Online
01.02.21	3 rd	CC 6	Educational Management	10	SN	Online Viva
30.01.21	3 RD	CC5	Sociological foundation of Education	10	ST	Online Viva
23.02.21	3 RD	CC5	Sociological foundation of Education	10	ST	Short answer type (Online)
23.02.21	3 RD	CC6	Educational Organization	10	MB/SN	Short answer type (Offline)


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			Management and Planning			
24.02.21	3 RD	CC 7	Guidance and Counselling	10	MC	Short answer type (Online)
24.02.21	3 RD	SEC A	Communication skill	10	AG	Short answer type (Online)

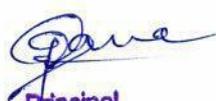
1st SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
16.12.2020	1 ST	CC1	Narrow and Broad concept of Education, Meaning nature and scope of Education	10	ST	Long answer MCQ
17.12.2020	1 st	CC1	Child Centricism	10	AG	MCQ
18.12.20	1 st	CC2	Vedic, Brahmanic period	10	SN	Online MCQ
21.12.20	1 ST	CC1	Factors of Education	10	MB	Short answer type
04.01.21	1 ST	CC 2	Macaulay Minute, Adam's Report	20	MC	Short answer type
01.03.21	1 st	CC1	Introduction To Education	20	ST, MB,SN	Short answer type
01.03.21	1 st	CC 2	History of Indian Education	10	MC ,AG	Short answer type


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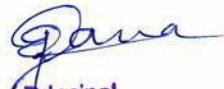
DEPARTMENT of EDUCATION
Continuous Internal Evaluation (CIE)
Academic session – 2021-2022 (Odd Semester)
5th Semester

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
07.01.21	5th	DSE A2	Rabindranath Tagore	15	SN	Online Viva
09.01.21	5th	CC11	Evaluation-Concept and scales	10	MB	Online Viva
09.01.21	5th	CC12	Measure of Central tendency and Measure of variability	20	MC	Short answer type Online
11.01.21	5TH	DSE B1	Teacher Education-Concept, scope aims and objectives	20	AG	Short answer type Online
13.01.21	5TH	DSEA2	Plato & Rousseau	20	ST	Online Viva
26.02.21	5TH	CC11	Evaluation in Education	10	MB	Short answer type (Online)
26.02.21	5TH	CC12	Statistics in Education	10	MC	Short answer type (Online)
27.02.21	5TH	DSE A2	Educational thought of Great Educators	10	ST/SN	Short answer type (Online)
27.02.21	5TH	DSE B1	Teacher Education	10	AG/SN	Short answer type (Online)


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3rd SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
31.01.21	3 rd	CC7	Counselling concept types and techniques	10	MC	Oral Exam Online
03.02.21	3 rd	CC6	Educational Organization	20	MB	Short answer type (Online)
02.01.21	3 rd	SECA1	Teaching skill	10	AG	MCQ Online
01.02.21	3 rd	CC 6	Educational Management	10	SN	Online Viva
30.01.21	3 RD	CC5	Sociological foundation of Education	10	ST	Online Viva
23.02.21	3 RD	CC5	Sociological foundation of Education	10	ST	Short answer type (Online)
23.02.21	3 RD	CC6	Educational Organization Management and Planning	10	MB/SN	Short answer type (Offline)
24.02.21	3 RD	CC 7	Guidance and Counselling	10	MC	Short answer type (Online)
24.02.21	3 RD	SEC A	Communication skill	10	AG	Short answer type (Online)


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1st SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
16.12.2021	1 ST	CC1	Narrow and Broad concept of Education, Meaning nature and scope of Education	10	ST	Long answer MCQ
17.12.2021	1 st	CC1	Child Centricism	10	AG	MCQ
18.12.21	1 st	CC2	Vedic, Brahmanic period	10	SN	Online MCQ
21.12.21	1 ST	CC1	Factors of Education	10	MB	Short answer type
04.01.22	1 ST	CC 2	Macaulay Minute, Adam's Report	20	MC	Short answer type
01.03.22	1 st	CC1	Introduction To Education	20	ST, MB,SN	Short answer type
01.03.22	1 st	CC 2	History of Indian Education	10	MC ,AG	Short answer type


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DEPARTMENT EDUCATION
ACADEMIC SESSION – 2022-2023 (ODD SEMESTER)
5th Semester

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
02.09.22	5th	CC11	Measurement and Evaluation Concept Scope, Relation and Scales	20	MB	Short answer type (Offline)
03.009.22	5TH	DSE A	Plato, Rousseau, Montessori	20	ST	Short answer type (Offline)
05.09.23	5TH	CC 12	Measure of Central tendency and Measure of variability	20	AG	Short answer type (Offline)
09.12.22	5th	CC11	Evaluation in Education	10	MB	Short answer type (Offline)
09.12.22	5TH	CC12	Statistics in Education	10	AG	Short answer type (Offline)
14.12.22	5TH	DSE A	Educational thought of Great Educators	10	ST	Short answer type (Offline)
14.12.22	5TH	DSE B	Teacher Education	10	AG	Short answer type (Offline)

3rd SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
02.09.22	3 rd	CC6	Educational Organization	20	MB	Short answer type


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						(Offline)
03.09.22	3 rd	CC5	Sociology of education concept, nature, realation	20	ST	Short answer type (Offline)
5.09.22	3 rd	CC 7	Guidance concept and meaning	20	AG	Short answer type (Offline)
09.12.22	3 RD	CC5	Sociological foundation of Education	10	ST	Short answer type (Offline)
09.12.22	3 RD	CC6	Educational Organization Management and Planning	10	MB	Short answer type (Offline)
14.12.22	3 RD	CC 7	Guidance and Counselling	10	ST	Short answer type (Offline)
14.12.22	3 RD	SEC A	Communication skill	10	ST	Short answer type (Offline)

1st SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
05.11.22	1ST	CC1	Narrow and Broad concept of Education, Meaning nature and scope of Education	20	ST	Short answer type (Offline)
05.11.22	1ST	CC2	Vedic, Brahmanic	20	AG	Short answer type(Offline)


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12.11.22	1 ST	CC 1	Factors of Education: Child and Teacher	20	MB	Short answer type (Offline)
31.01.23	1 st	CC 1	Introduction To Education	20	AG	Short answer type (Offline)
31.01.23	1st	CC 2	History of Indian Education	10	ST	Short answer type (Offline)

DEPARTMENT OF EDUCATION
ACADEMIC SESSION – 2020-2021 (EVEN SEMESTER)
6th Semester

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online)
18.05.21	6 th	CC14	Definition meaning and concept of research	10	MC	Short answer type
18.05.21	6 th	DSE A	Definition of Gender & difference with sex	10	AG	Short answer type
09.05.21	6 th	CC 13	Concept of adjustment and Maladjustment	10	MB	Short answer type
09.05.21	6 th	DSE B	Historical perspective of Women Education	10	ST	Short answer type
08.07.21	6 th	CC13	Psychology of Adjustment	10	MB	Short answer type


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08.07.21	6 th	CC14	Research Methodology	10	MC	Short answer type
09.07.21	6 th	DSE A	Gender and Society	10	AG	Short answer type
09.07.21	6 th	DSE B	Women Education	10	ST	Short answer type

4th SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question ONLINE
20.05.21	4th	CC 9	Evaluation and reforms in curriculum	10	MB	MCQ answer type
24.05.21	4th	CC10	Concept of SC ST and OBC	10	SN	MCQ type
31.05.21	4th	CC8	Technology meaning and concept	10	MC	MCQ type
01.06.21	4th	SEC B	Teaching skill	10	AG	MCQ type
01.06.21	4th	CC10	Inclusive Education: meaning and concept	10	ST	MCQ answer type
06.07.21	4th	CC8	Technology in Education	10	MC	Short answer type
06.07.21	4th	CC9	Curriculum studies	10	MB	Short answer type
07.07.21	4th	CC10	Inclusive Education	10	ST	Short answer type
07.07.21	4th	SEC B	Teaching skill	10	AG	Short answer type


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2ND SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (offline)
19.04.201	2ND	CC4	Idealism	20	SN	Short answer type
21.04.21	2nd	CC 3	Relation between psychology and Education	20	AG	Short answer type
21.04.21	2nd	CC3	Learning and its theories	20	MC	Short answer type
21.04.21	2nd	CC 4	Relation Between Philosophy and Education	20	MB	Short answer type
22.04.21	2 ND	CC 4	Education and development of human values	10	ST	MCQ TYPE
03.05.21	2 ND	CC 4	Naturalism	10	SN	MCQ TYPE
04.05.21	2 ND	CC 3	Learning theories	10	MC	MCQ TYPE
05.05.21	2 ND	CC3	Growth and development	10	AG	MCQ TYPE
05.07.21	2 ND	CC3	Psychological foundation of Education	10	MC	Short answer type
05.07.21	2 ND	CC4	Philosophical Foundation of Education	10	ST	Short answer type


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ACADEMIC SESSION – 2021-2022 (EVEN SEMESTER)
6th Semester

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
14.03.22	6 th	CC14	Definition meaning and concept of research	10	MC	Short answer type (offline)
15.03.22	6 th	DSE A	Definition of Gender & difference with sex	10	AG	Short answer type (offline)
08.04.22	6 th	CC 13	Concept of adjustment and Maladjustment	10	MB	Short answer type (offline)
12.04.22	6 th	DSE B	Historical perspective of Women Education	10	ST	Short answer type (offline)
13.06.22	6 th	CC13	Psychology of Adjustment	10	MB	Short answer type (offline)
13.06.22	6 th	CC14	Research Methodology	10	MC	Short answer type (offline)
14.06.22	6 th	DSE A	Gender and Society	10	AG	Short answer type (offline)
14.06.22	6 th	DSE B	Women Education	10	ST	Short answer type (offline)

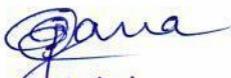

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4th SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question
17.03.22	4th	CC8	Technology meaning and concept	10	MC	Short answer type (offline)
21.03.22	4th	SEC B	Teaching skill	10	AG	Short answer type (offline)
25.03.22	4th	CC 9	Curriculum studies	10	MB	Short answer type (offline)
26.03.22	4th	CC10	Inclusive Education: meaning and concept	10	ST	Short answer type (offline)
17.06.22	4th	CC8	Technology in Education	10	MC	Short answer type (offline)
17.06.22	4th	CC9	Curriculum studies	10	MB	Short answer type (offline)
18.06.22	4th	CC10	Inclusive Education	10	ST	Short answer type (offline)
18.06.22	4th	SEC B	Teaching skill	10	AG	Short answer type (offline)

2ND SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (offline)
26.03.22	2ND	CC4	Indian schools- Sankhya and Yoga	20	ST	Short answer type
29.03.22	2nd	CC3	Learning and its theories	20	MC	Short answer type


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02.04.22	2nd	CC 4	Relation Between Philosophy and Education	20	MB	Short answer type
24.05.23	2nd	CC 3	Relation between psychology and Education	20	AG	Short answer type
06.06.22	2 ND	CC 4	Education and development of human values	10	ST	MCQ TYPE
08.06.22	2 ND	CC 3	Memorization	10	MC	MCQ TYPE
08.06.22	2 ND	CC 4	Idealism and Naturalism	10	MB	MCQ TYPE
08.06.22	2 ND	CC3	Growth and development	10	AG	MCQ TYPE
20.06.22	2 ND	CC3	Psychological foundation of Education	10	MC	Short answer type
20.06.22	2 ND	CC4	Philosophical Foundation of Education	10	ST	Short answer type

DEPARTMENT OF EDUCATION
ACADEMIC SESSION – 2022-2023 (EVEN SEMESTER)
6th Semester

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
20.03.23	6th	CC14	Definition meaning and	10	MC	Short answer type


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			concept of research			(Offline)
21.03.23	6 th	DSE A	Definition of Gender & difference with sex	10	AG	Short answer type (offline)
24.03.23	6 th	CC 13	Concept of adjustment and Maladjustment	10	MB	Short answer type (Offline)
24.03.23	6 th	DSE B	Historical perspective of Women Education	10	ST	Short answer type (Offline)
06.04.23	6 th	CC14	Research Proposal discussion	10	MC	Oral exam (Offline)
26.05.23	6 th	CC13	Psychology of Adjustment	10	MB	Short answer type (Offline)
26.05.23	6 th	CC14	Research Methodology	10	MC	Short answer type(Offline)
27.05.23	6 th	DSE A	Gender and Society	10	AG	Short answer type(Offline)
27.05.23	6 th	DSE B	Women Education	10	ST	Short answer type (Offline)

4th SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/
31.03.23	4 th	CC8	Technology meaning and concept	10	MC	Short answer type (offline)


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04.04.23	4th	SEC B	Teaching skill	10	AG	Short answer type(offline)
05.03.23	4th	CC 9	Curriculum studies	10	MB	Short answer type (offline)
06.03.23	4th	CC10	Inclusive Education: meaning and concept	10	ST	Short answer type(offline)
09.06.23	4th	CC8	Technology in Education	10	MC	Short answer type (offline)
09.06.23	4th	CC9	Curriculum studies	10	MB	Short answer type (offline)
10.06.23	4th	CC10	Inclusive Education	10	ST	Short answer type (offline)
10.06.23	4th	SEC B	Teaching skill	10	AG	Short answer type (offline)

2ND SEMESTER

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
01.04.23	2ND	CC4	Indian schools-Sankhya and Yoga	20	ST	Short answer type (Offline)
04.04.23	2nd	CC3	Learning and its theories	20	MC	Short answer type(Offline)
05.04.23	2nd	CC 4	Relation Between Philosophy and Education	20	MB	Short answer type (Offline)
11.04.23	2nd	CC 3	Relation between psychology and Education	20	AG	Short answer type (Offline)


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13.05.23	2 ND	CC 4	Education and development of human values	10	ST	MCQ TYPE (Offline)
18.05.23	2nd	CC 3	Memorization	10	MC	MCQ TYPE (Offline)
30.05.23	2nd	CC 4	Idealism and Naturalism	10	MB	MCQ TYPE (Offline)
37.05.23	2nd	CC3	Growth and development	10	AG	MCQ TYPE (Offline) (Offline)
12.06.23	2nd	CC3	Psychological foundation of Education	10	MC	Short answer type (Offline)
13.06.23	2nd	CC4	Philosophical Foundation of Education	10	ST	Short answer type


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Education Department
Result :2018-21

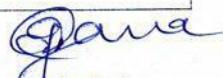
Sl.No.	Name	Roll. No.	Reg.No	CGPA
1.	Papri Roy	182513-11-0037	513-1211-0190-18	7.42
2.	Kabira Khatun	182513-11-0040	513-1211-0209-18	7.952
3.	Swarnali Guriya	182513-11-0041	513-1211-0211-18	8.32
4.	Prity Maity	182513-11-0042	513-1211-0307-18	7.403
5.	Neha Das	182513-11-0043	513-1211-0310-18	7.02
6.	Annapurna Chatterjee	182513-11-0045	513-1211-0766-18	7.176
7.	Jui Basu	182513-11-0049	513-1212-0255-18	7.609
8.	Pinki Naskar	182513-11-0050	513-1212-0292-18	7.361
9.	Suchitra Mondal	182513-11-0052	513-1212-0323-18	7.121
10.	Rakhi Munda	182513-11-0053	513-1213-0325-18	6.501
11.	Sumana Nath	182513-11-0054	513-1214-0204-18	6.631
12.	Swagata Das	182513-11-0055	513-1214-0254-18	7.783
13.	Afsana Akhan	182513-11-0056	513-1214-0374-18	6.676
14.	Anusree Ghosh	182513-11-0057	513-1214-0377-18	6.547
15.	Anindita Sandhukha	182513-11-0058	513-1214-0386-18	6.658
16.	Rumpa Khatun	182513-11-0059	513-1215-0384-18	6.584
17.	Nayan Das	182513-21-0015	513-1111-0205-18	6.971
18.	Asim Kumar Mondal	182513-21-0016	513-1111-0210-18	8.391
19.	Deep Debnath	182513-21-0017	513-1111-0783-18	7.15
20.	Santanu Mondal	182513-21-0018	513-1111-0836-18	6.47
21.	Bapan Mondal	182513-21-0019	513-1111-0859-18	6.783
22.	Rabindranath Mondal	182513-21-0020	513-1112-0160-18	8.065
23.	Kunal Naskar	182513-21-0024	513-1112-0218-18	6.961
24.	Rajkumar Malik	182513-21-0025	513-1112-0219-18	7.185


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25.	Mahim Pattari	182513-21-0026	513-1112-0226-18	7.555
26.	Suvajit Naskar	182513-21-0027	513-1112-0233-18	6.704
27.	Goutam Sarkar	182513-21-0030	513-1112-0265-18	6.146
28.	Somnath Sardar	182513-21-0031	513-1112-0269-18	6.526
29.	Chandan Halder	182513-21-0032	513-1112-0276-18	7.411
30.	Sandip Mondal	182513-21-0033	513-1112-0680-18	7.172
31.	Sadik Mondal	182513-21-0036	513-1115-0268-18	6.676

Result of batch 2019-2022

Sr. No	Name	Roll No.	Registration Number	
1	Tina Das	192513-11-0027	513-1211-054-19	7.825
2	Suparna Roy	192513-11-0028	513-1211-0055-19	7.412
3	Rumpa Baidya	192513-11-0029	513-1211-0088-19	7.418
4	Fatema Khaton	192513-11-0030	513-1211-0092-19	7.031
5	Nitu Majumdar	192513-11-0031	513-1211-0149-19	7.014
6	Sukanya Roy	192513-11-0032	513-1211-0210-19	7.321
7	Puja Mondal	192513-11-0025	513-1211-0001-19	7.568
8	Jayita Naskar	192513-11-0033	513-1212-0011-19	7.83
9	Piyali Das	192513-11-0034	513-1212-0066-19	6.96
10	Puja Dey	192513-11-0035	513-1212-0107-19	7.134
11	Puja Rani Halder	192513-11-0036	513-1212-0113-19	7.623
12	Riya Naskar	192513-11-0037	513-1212-0124-19	7.015
13	Hema Mahato	192513-11-0038	513-1213-0187-19	7.107
14	Soma Mahato	192513-11-0039	513-1213-0204-19	7.142
15	Naznin sultana	192513-11-0040	513-1215-0241-19	7.324


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16	Sajida Laskar	192513-11-0148	052-1215-0194-18	7.653
17	Sujan Gazi	192513-11-0149	532-1215-1866-18	7.362
18	Moumita Mondal	192513-11-0152	513-1212-0775-19	7.194
19	Avik Majumdar	192513-21--0021	513-1111-0196-19	6.852
20	Soumen Mondal	192513-21-0023	513-1111-0217-19	7.092
21	Suman Mistry	192513-21-0024	513-1112-0014-19	7.161
22	Sribas Kumar	192513-21-0025	513-1112-0051-19	6.934
23	Avijit Kayal	192513-11-0026	513-1112-0131-19	6.825
24	Suman Naiya	192513-21-0027	513-1112-0153-19	7.579
25	Prosanto Mondal	192513-21-0028	513-1112-0157-19	7.559
26	Presenjit Das	192513-21-0031	513-1112-0245-19	6.629
27	Subhadip Mali	192513-21-0032	513-1113-0006-19	7.164
28	Arnab Ghosh	192513-21-0033	513-1114-0200-19	6.883
29	Abdul Faruk Sardar	192513-21-0035	513-1115-0057-19	6.537
30	Sneha Kundu	192513-11-0026	513-1211-0015-19	7.265
31	Lab Das	192513-21-0111	513-1112-0797-18	7.342
32	Najmul Shaikh	192513-21-0034	513-1115-0043-19	6th Sem not Appeared
33	Rakesh Mondal	192513-21-0030	513-1112-0240-19	6.64


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Result of CBCS Batch –2020- 2023

Sl.No.	Name	Roll No.	Registration No.	CGPA
1.	Megha Mondal	202513-11-0014	513-1211-0043-20	7.439
2.	Arumita Chowdhury	202513-11-0025	513-12110099-20	7.148
3.	Poulami Chakraborty	202513-11-0029	513-1211-0113-20	V Sem not clear
4.	Dipa Saha	202513-11-0040	513-1211-0172-20	V sem not clear
5.	Parna Das	202513-11-0046	513-1211-0222-20	7.791
6.	Sanjana Mondal	202513-11-0067	513-1212-0051-20	V sem not clear
7.	Ankita Naskar	202513-11-0069	513-1212-0056-20	6.866
8.	Sadhana Mridha	202513-11-0085	513-1212-0146-20	6.984
9.	Trisha Mondal	202513-11-0101	513-1212-0215-20	7.674
10.	Rachana Sardar	202513-11-0111	513-1213-0159-20	7.012
11.	Laboni Shil	202513-11-0112	513-1214-0001-20	V sem not clear
12.	Sabiya Khatun	202513-11-0122	513-1215-0009-20	6.921
13.	Beauty Sardar	202513-11-0138	513-1213-0844-20	IV sem not clear
14.	Suhana Parvin	202513-11-0142	513-1215-0878-20	V sem not clear
15.	Anish Pal	202513-21-0001	513-1111-0002-20	8.316
16.	Indranil Dutta	202513-21-0002	513-1111-0033-20	V sem not clear
17.	Subhasis Sarder	202513-21-0048	513-1112-0007-20	6.226
18.	Subrata Halder	202513-21-0050	513-1112-0016-20	VI sem not clear


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19.	Suvendu Sarder	202513-21-0055	513-1112-0082-20	7.214
20.	Kaushik Singha	202513-21-0059	513-1112-0089-20	6.630
21.	Atanu Mandal	202513-21-0074	513-1112-0157-20	6.380
22.	Alfaz Bagani	202513-21-0107	513-1114-0143-20	V sem not clear
23.	Priti Manna	202513-11-0037	513-1211-0166-20	V sem not clear
Sl.No	Name	Roll No	Registration No	CGPA
24.	Sunita Mondal	202513-11-0074	513-1212-0081-20	V sem not clear
25.	Ankita Das	202513-11-0098	513-1212-0211-20	V and VI sem not clear
26.	Jasmina Khatun	202513-11-0132	513-1215-0226-20	V sem not clear
27.	Suman Mondal	202513-21-0022	513-1111-0156-20	IV ,V,VI Sem Not clear
28.	Rahul Das	202513-21-0033	513-1111-0202-20	V sem not clear
29.	Md.Rajibul Sk.	202513-21-0111	513-1215-0077-20	IV,V,VI sem not Clear

Sammilani Mahavidyalaya
Department of Education


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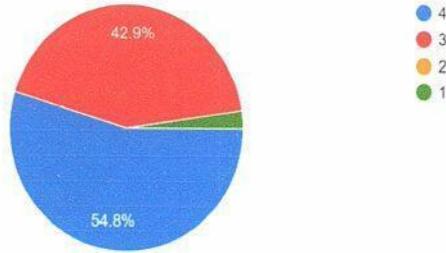
INDIRECT METHOD
SURVEY IS CONDUCTED THROUGH QUESTIONNAIRE FOR RATING AND
RELATION OF POs AND PSOs

The screenshot shows a web browser window displaying a Google Forms survey. The browser's address bar shows the URL: docs.google.com/forms/d/1jtWihJ6GjVYaMni_D4qWXdh3D81dU6xkSpEld1loZ0/edit?pli=1. The page title is "Feedback: Attainment of the Course". The form interface includes a header with "Questions", "Responses" (42), and "Settings" tabs, along with a "Total points: 0" indicator. The main content area features a large image of an open book with a glowing effect. Below the image is a text box with the title "Feedback: Attainment of the Course" and a rich text editor containing the text "4. Excellent, 3. Good, 2. Fair, 1. Poor". The Windows taskbar at the bottom shows the system clock as 09:35 on 05-04-2024.


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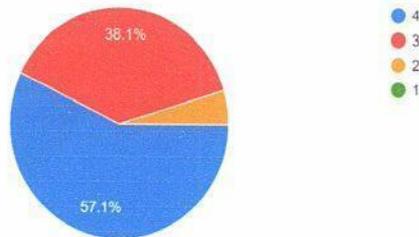
1. Was the course helpful in developing your interest and liking for the subject?

42 responses



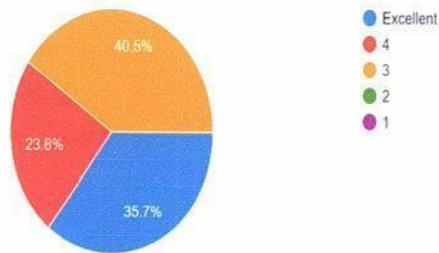
2. Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.

42 responses



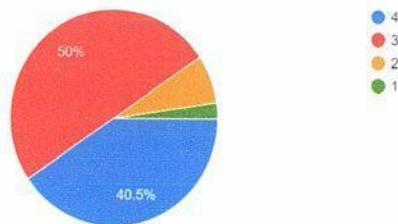
3. Was the course or part of the course helpful in giving an interdisciplinary knowledge?

42 responses



4. Rate the practical part of the course as far as applicable for real world problems?

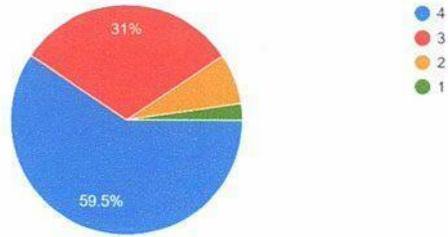
42 responses



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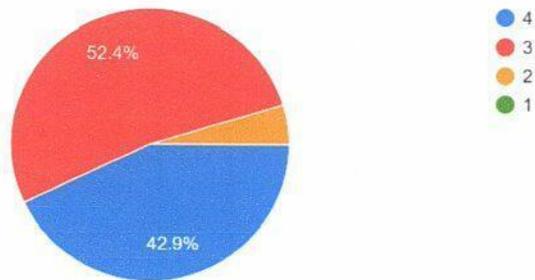
9. How would you rate the course in developing interest of students towards higher studies and research

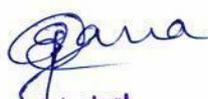
42 responses



10. How would you rate the course in terms of relevance in the present education structure both at the national and international level?

42 responses

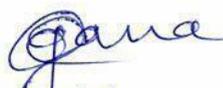



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Sl No	Questions	Total Weighted Sum	Response	Weighted Average
1	Was the course helpful in developing your interest and liking for the subject?	147	42	3.5
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	148	42	3.5
3	Was the course or part of the course helpful in giving an interdisciplinary knowledge?	151	42	3.6
4	Rate the practical part of the course as far as applicable for real world problems?	138	42	3.3
5	How would you rate the course in terms of modern approaches and contemporary issues?	134	42	3.2
6	How much has the course been helpful for developing critical thinking and logic applicable for problem solving?	138	42	3.3
7	Does the course designed according to current development of the subject of interest?	148	42	3.5
8	Does the course or part of the course have contributions to industry and technology needed for job orientation?	134	42	3.2
9	How would you rate the course in developing interest of students towards higher studies and research?	146	42	3.5
10	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	142	42	3.4
Overall Average=				3.4

By Indirect Method, the target level of POs & PSOs for attainment has been reached successfully.


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POLITICAL SCIENCE

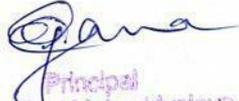
PROGRAMME SPECIFIC AND COURSE OUTCOME OF POLITICAL SCIENCE HONOURS UNDER CBCS

Programme Outcome(PO)

- PO1:** Students after attaining bachelors degree either continue with higher studies or try to secure a job.
- PO2:** Students try to grasp the discipline conceptually and practically with its application in situations of international arena.
- PO3:** It's the basic understanding of the discipline that helps to explore other social sciences and feasible areas of interdisciplinary research.
- PO4:** There are students who have bachelor's degree pursue legal studies/law or journalism in future as the course provide knowledge on laws, rights etc.
- PO5:** The amalgamation of knowledge and better writing skill helps to become scribe too.
- PO6:** Students can go into teaching, bureaucracy or become better parliamentarians/ legislators/ administrators.
- PO7:** Last but not the least students pursuing degree course in political science will become better, vigilant and dutiful denizens.

Programme Specific Outcome(PO)

- ✦ **PSO1:** Extensive knowledge about the subject and diversified fields with basic understanding about theoretical concepts like Rights, Liberty, Equality, Democracy, Liberalism, Feminism, Constitution, Indian philosophers and Western Philosophers their indelible contribution such as International Relations, Public Administration, Comparative Politics, Gender Studies, Legal Studies/Literacy, Electoral Studies, Defence Studies.
- ✦ **PSO2:** The course aims to train students about Fundamental Rights, Fundamental Duties, Debates of Constitutional Assembly prior to framing of the fundamental law of land i.e. Constitution, process of Constitutional Amendment, training, recruitment of bureaucrats etc. They will learn about role of District Collector/ Magistrate, Block Development Officer, three tiers of Panchayati Raj System, administration in federalism.
- ✦ **PSO3:** The course aims to give a basic understanding of interdisciplinary research in fields of political sociology, legal literacy, geopolitics in International Relation etc. so that novel areas of research in social science can be explored.


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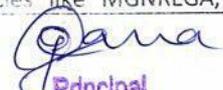
- ✦ **PSO4:** The course aims to open up to explore new avenues in the arena of Mass Communication and Journalism, Legal Studies/Law with basic conceptual clarity and factual knowledge attained while pursuing under graduation.
- ✦ **PSO5:** The course helps students hone up their literary skill with factual information, input and knowledge.
- ✦ **PSO6:** The course aims to enhance knowledge of students as future administrators, legislators, bureaucrats with attained knowledge on principles, theories of public administration, implementation of public policy, social welfare programmes etc.
- ✦ **PSO7:** The course helps the youth to become good citizens sensitive, sensitized and responsible so that better society can be built up with noble intention.

List of Advance Core Course (CC) with its Outcome

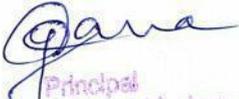
Semester I (Core Course)	Course Outcome
CC1 - Understanding Political Theory: Concepts	CO1 <ul style="list-style-type: none"> ✦ Enrich the students with theoretical knowledge about concepts, theories of J.Rawls and David Held. ✦ Enhance the basic conceptual knowledge about the disciplines.
CC2 - Understanding Political Theory: Approaches and Debates	CO2 <ul style="list-style-type: none"> ✦ Provide knowledge about various approaches in political science, theories, scientific socialism of Karl Marx, Lenin-Rosa debate, Hegemony and Civil Society of Gramsci
Semester II (Core Course)	Course Outcome
CC3- Constitutional Government in India	CO3 <ul style="list-style-type: none"> ✦ Impart knowledge about Indian Constitution, its evolution, salient features, amendment procedure and functioning of three organs of government.
CC4 - Politics in India: Structures and Processes	CO4 <ul style="list-style-type: none"> ✦ Generate awareness among students and keep them informed about Indian Party System and various movements related to environment, human rights, women and impact of caste, religion and language on Indian Politics.
Semester III (Core Course)	Course Outcome
CC5- Indian Political Thought-I	CO5 <ul style="list-style-type: none"> ✦ Provide knowledge on contribution made by various Indian Political Thinkers from Kautilya to Gandhi.
CC6- Comparative Government and Politics	CO6 <ul style="list-style-type: none"> ✦ Provide knowledge on salient features about constitutions of various nations like UK, USA, PRC, Russia, France, Bangladesh and gain basic understanding about comparative politics and


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	government.
CC7- Perspectives on International Relations	CO7 ❖ Provide conceptual knowledge about International Relation, theories, Indian Foreign Policy, contemporary issues like Indo-US and Indo-Sino bilateral relations.
SEC A(1)- Democratic Awareness through Legal Literacy	CSECA1 ❖ It deals with legal system, IPC, CPC, FIR, laws to cease violence against women, cybercrimes, consumer rights etc.
Semester IV (Core Course)	Course Outcome
CC8- Indian Political Thought-II	CO8 ❖ Provides knowledge on thinkers from M.N.Roy to Pandita Ramabai.
CC9- Global Politics since 1945	CO9 ❖ It deals with Cold War and Post Cold War Phase Politics, information about various regional organizations, UNO and bilateral relations with neighbouring countries.
CC10- Western Political Thought and Theory-I	CO10 ❖ It deals with the indelible contribution of western political thinkers from Greek till social contractalist like Hobbes, Locke and Rousseau.
SEC B(1)- Legislative Practices and Procedure	CSECB2 ❖ It deals with MPLAD, Privileges and Procedures of Parliament, local self government and legislative assemblies.
Semester V (Core Course)	Course Outcome
CC11- Western Political Thought and Theory-II	CO11 ❖ It deals with indelible contribution of western political thinkers from Bentham till Frankfurt School and Post Marxism contentions.
CC12- Political Sociology	CO12 ❖ It basically deals with various concepts of social structure and impact of religion, gender on Indian politics and Electoral politics.
DSE A(1)- Gender and Politics	COSEA1 ❖ It gives an understanding about sex-gender debate, patriarchy, women's movement, violence against women etc.
DSE B(1)- Indian Foreign Policy in a Globalising World	COSEB1 ❖ It focuses on relation with China, Russia, USA and India as a South Asian Power.
Semester VI (Core Course)	Course Outcome
CC13- Public Administration—Concepts and Perspectives	CO13 ❖ It deals with basic understanding about public administration, public policy and its major concepts.
CC14- Administrative and Public Policy in India	CO14 ❖ It focuses mainly on civil service, Panchayati Raj, social welfare policies like MGNREGA,


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DSE A(4)- Understanding Global Politics	NHM, SSA, 73 rd and 74 th Amendment Act. CD5EA4 ❖ it deals with State Sovereign System, Global Civil Society, Political Economy, Culture, Global Inequalities etc.
DSE B(4)- Human Rights in Comparative Perspective	CD5EB4 ❖ it deals with Human Rights and its comparative implications on South Africa, USA, India, China so on and so forth.


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MAPPING OF CO,PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	✓	✓			✓	✓		✓			✓	✓		✓
CO2	✓	✓		✓	✓			✓				✓	✓	✓
CO3	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓		✓
CO4	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓				✓	✓	✓	✓	✓			✓	✓	✓
CO6	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓		✓
CO7	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓		✓
CO8	✓				✓	✓	✓	✓				✓		✓
CO9	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓	
CO10	✓				✓	✓	✓	✓				✓	✓	✓
CO11	✓				✓			✓				✓		✓
CO12	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
CO13	✓			✓	✓	✓	✓	✓		✓	✓		✓	
CO14	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CSECA1	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
CSECB1	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
CDSEA1	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
CDSEB1	✓	✓			✓	✓	✓	✓		✓	✓	✓		✓
CDSEA4	✓	✓			✓	✓	✓	✓		✓	✓	✓		✓
CDSEB4	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓

Parameters for justification of coordination of CO with PO & PSO(High: 3,
Medium: 2 , Low: 1


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Attainment of Course & Programme Outcomes

Our institution being affiliated to the University of Calcutta abides by its rules regarding curriculum, course and programme. There are two types of methods that are adopted for the measurement of attainment of Course and Programme outcomes—(a) Direct and (b) Indirect.

It is through direct methods namely internal assessment, project/tutorial, presentation/seminar, regular attendance in class that the in depth knowledge of the students are evaluated. Indirect method consists up of record of the progression of the students to higher studies and placements after completing graduation. An overall Feedback about the various amenities provided by the institution, about the course and programme is taken.

The tables given below provide a detail account on description of the assessment processes along with its frequency.

The institution utilizes the combination of both the methods as tool to measure the attainment level.


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ATTAINMENT THROUGH DIRECT METHODS

Sl. No	Direct Assessment Method	Assessment Frequency	Description
1	Internal Assessment	Once in each semester	Internal Assessment is held for 10% of the total marks of each paper/subject 10marks for a paper of 100 marks.20% of the total marks i.e. 20 marks is assigned to Internal Assessment. Internal Exam and Attendance is combined to get Internal Assessment result. 15 marks are assigned for Tutorial/Project.
2	Class Test	As per requirement	It is a method used to assess the student's comprehending and grasping capabilities.
3	End Semester Examination	Once in each semester	<p>End Semester Examinations (theory) are conducted by the University to assess the theoretical understanding learning ability and knowledge of the student.</p> <p>End Semester Examinations are generally conducted at the end of the specific Semester i.e., Odd Semester (I,III,V) in December-January and Even Semester(II,IV,VI) in June-July.</p>
4	Presentations/Seminar	As per requirement	Presentations are conducted to assess student's communication and presentation skills alongwith in depth knowledge about the subject. It also helps them to gain confidence.
5	Attendance	As per University rules and regulations	Total 10 marks is allotted for class attendance.6 marks for attending 60% to 75% of the number of lectures delivered,8 marks for attending 75% to 90% of the number of lectures delivered, 10 marks for attending 90% or above of lectures delivered. Attendance are calculated from the date of commencement of classes or date of admission whichever is later)


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Details of Internal Exam Session wise

ACADEMIC SESSION 2019-2022

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION (ONLINE/OFFLINE)
02/12/19	I	CC-1, 2	As covered in class	10 per course	Lupsy Mohanty Roy	offline
14/11/20	II	CC-3,4	As covered in class	10 per course	Lupsy Mohanty Roy	online
01/03/21	III	SEC A(1)	As covered in class	10 per course	Lupsy Mohanty Roy	online
03/03/21	III	CC-5	As covered in class	10 per course	Lupsy Mohanty Roy	online
04/03/21	III	CC-6	As covered in class	10 per course	Lupsy Mohanty Roy	online
05/03/21	III	CC-7	As covered in class	10 per course	Lupsy Mohanty Roy	online
04/07/21	IV	SEC B (1)	As covered in class	10 per course	Lupsy Mohanty Roy	online
08/07/21	IV	CC-8	As covered in class	10 per course	Debdurta Chakraborty	online
09/07/21	IV	CC-9	As covered in class	10 per course	Rahul Sengupta	online
10/07/21	IV	CC-10	As covered in class	10 per course	Lupsy Mohanty Roy	online
03/01/22	V	CC-11	As covered in class	10 per course	Rahul Sengupta	offline
03/01/22	V	CC-12	---do---	10 per course	Lupsy Mohanty Roy	offline
05/01/22	V	DSE A(1)	---do---	10 per course	Rahul Sengupta	offline
05/01/22	V	DSE B(1)	---do---	10 per course	Sukanya Mukherjee	offline
15/06/22	VI	DSE A(4)	As covered in class	10 per course	Sukanya Mukherjee	offline
20/06/22	VI	CC-13	---do---	10 per course	Debdurta Chakraborty	offline
18/06/22	VI	CC-14	As covered in class	10 per course	Rahul Sengupta	offline
16/06/22	VI	DSE B(4)	---do---	10 per course	Lupsy Mohanty Roy	offline


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ACADEMIC SESSION 2020-2023

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION (ONLINE/OFFLINE)
01/03/21	I	CC-1	As covered in class	10 per course	Lipsy Mohanty Roy	online
02/03/21		CC-2	As covered in class	10 per course	Lipsy Mohanty Roy	online
05/07/21	II	CC-3	As covered in class	10 per course	Sukanya Mukherjee	online
		CC-4	As covered in class	10 per course	Sukanya Mukherjee	online
03/01/22	III	CC-5	As covered in class	10 per course	Debdutta Chakraborty	offline
03/01/22		CC-6	As covered in class	10 per course	Rahul Sengupta	offline
05/01/22		CC-7	As covered in class	10 per course	Sukanya Mukherjee	offline
05/01/22		SEC A-1	As covered in class	10 per course	Lipsy Mohanty Roy	offline
21/06/22	IV	SEC B (1)	As covered in class	10 per course	Lipsy Mohanty Roy	offline
24/06/22		CC-8	As covered in class	10 per course	Debdutta Chakraborty	offline
22/06/22		CC-9	As covered in class	10 per course	Sukanya Mukherjee	offline
18/06/22	IV	CC-10	As covered in class	10 per course	Rahul Sengupta	offline
14/12/22	V	CC-11	As covered in class	10 per course	Rahul Sengupta	offline
15/12/22	V	CC-12	---do---	10 per course	Debdutta Chakraborty	offline
16/12/22	V	DSE A(1)	---do---	10 per course	Lipsy Mohanty Roy	offline
15/12/22	V	DSE B(1)	---do---	10 per course	Sukanya Mukherjee	offline
10/05/23	VI	DSE A(4)	As covered in class	10 per course	Sukanya Mukherjee	offline
01/06/23	VI	CC-13	---do---	10 per course	Debdutta Chakraborty	offline
31/05/23	VI	CC-14	As covered in class	10 per course	Lipsy Mohanty Roy	offline
02/06/23	VI	DSE B(4)	---do---	10 per course	Lipsy Mohanty Roy	offline


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ACADEMIC SESSION 2021-2023

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION (ONLINE/OFFLINE)
19/02/22	I	CC-1	As covered in class	10 per course	Rahul Sengupta	offline
		CC-2	As covered in class	10 per course	Rahul Sengupta	offline
17/06/22	II	CC-3	As covered in class	10 per course	Lipsy Mohanty Roy	offline
20/06/22		CC-4	As covered in class	10 per course	Sukanya Mukherjee	offline
15/12/22	III	CC-5	As covered in class	10 per course	Debdutta Chakraborty	offline
14/12/22		CC-6	As covered in class	10 per course	Rahul Sengupta	offline
15/12/22		CC-7	As covered in class	10 per course	Sukanya Mukherjee	offline
14/12/22		SEC A-1	As covered in class	10 per course	Lipsy Mohanty Roy	offline
21/06/23	IV	SEC B (1)	As covered in class	10 per course	Lipsy Mohanty Roy	offline
15/06/23		CC-8	As covered in class	10 per course	Debdutta Chakraborty	offline
22/06/23		CC-9	As covered in class	10 per course	Sukanya Mukherjee & Debdutta Chakraborty	offline
17/06/23	IV	CC-10	As covered in class	10 per course	Rahul Sengupta	offline


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ACADEMIC SESSION 2022-2023

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION (ONLINE/OFFLINE)
03/02/23	I	CC-1	As covered in class	10 per course	Lipsy Mohanty Roy	offline
		CC-2	As covered in class	10 per course	Sukanya Mukherjee	offline
19/06/23	II	CC-3	As covered in class	10 per course	Lipsy Mohanty Roy	offline
21/06/23		CC-4	As covered in class	10 per course	Rahul Sengupta	offline


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RESULT ANALYSIS

Result of Advance Course Students for Academic Session – 2019-22

Sl. No	Name of Students	CU Registration Number	SGPA (semester-wise)						CGPA	Grade
			I	II	III	IV	V	VI		
1	Pritam Purkait	513-1112-0147-19	5.65	7.19	6.8	7.4	8.4	6.68	7.07	A
2	Biswajit Adhikari	513-1114-0225-19	5.9	7.35	7.5	7.98	8.07	6.99	7.36	A
3	Rakesh Sardar	513-1112-0220-19	6.18	7.9	7.28	7.46	7.5	7.2	7.28	A
4	Prosenjit Das	513-1111-0084-19	5.9	7.39	7.17	7.5	7.8	6.2	7.0	A
5	Somen Karmakar	513-1111-0038-19	6.0	7.2	7.27	7.4	7.5	6.26	6.99	B+
6	Priti Dey	513-1211-0235-19	5.36	7.66	8.0	8.09	8.1	7.09	7.46	A
7	Peter Naskar	A01-1112-0373-18	5.09	6.98	6.15	7.02	8.4	6.49	6.7	B+
8	Samrat Sing	513-1111-0065-19	6.87	8.4	8.08	8.2	8.1	7.65	7.9	A
9	Surajit Bera	513-1111-0247-19	6.0	7.68	6.7	7.0	6.8	5.8	6.68	B+
10	Sangita Tanti	513-1211-0146-19	6.47	8.0	8.1	8.0	7.8	6.97	7.6	A
11	Subhajit Biswas	513-1112-0244-19	6.6	7.9	7.69	7.66	8.1	6.97	7.5	A
12	Suhana Khatun	513-1215-0167-19	6.5	7.9	7.4	7.6	8.6	6.29	7.4	A
13	Soumen Kamila	513-1111-0174-18	6.26	7.58	7.28	7.4	7.35	6.66	7.1	A
14	Sangita Mondal	513-1212-0075-19	5.88	7.6	7.3	7.4	7.89	6.98	7.2	A
15	Sharmistha Mondal	513-1212-0007-19	6.3	7.4	7.86	7.7	8.2	5.35	7.18	A
16	Mumtahina Shilahi	513-1215-0214-19	5.7	7.49	7.36	7.9	8.1	5.9	7.1	A
17	Rupchand Naiya	513-1112-0026-19	5.8	7.67	7.7	8.0	8.7	7.36	7.57	A
18	Kishan Sardar	513-1112-0130-19	5.96	7.7	6.76	6.93	7.3	5.28	6.65	B+
19	Mahir Gharami Kabiraj	513-1115-0170-19	6.1	Not Clear	6.35	6.6	7.5	5.87		
20	Neha Mondal	513-1215-0159-19	5.7	6.58	5.7	6.26	6.6	5.6	6.09	B+
21	Priya Khan	513-1212-0169-19	5.79	7.16	6.69	6.6	7.15	5.0	6.4	B+
22	Rahidul Gazi	513-1111-0022-19	6.3	7.8	7.39	8.09	8.67	7.03	7.6	A
23	Somnath Malik	513-1112-0181-19	6.49	8.3	7.8	7.85	7.9	6.5	7.5	A
24	Suparna Sardar	513-1212-0127-19	5.2	7.29	7.6	7.4	7.49	Not Clear		
25	Sagar Mondal	513-1112-0056-19	6.4	7.46	7.6	7.55	7.58	5.77	7.09	A

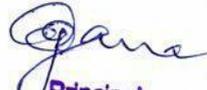
25 candidates appeared in Semester VI 2022 End Semester Examination, out of which CGPA 6-7 was secured by 5 students with Grade B+ and 17 students had CGPA 7-8 with Grade A


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Result of Advance Course Students for Academic Session – 2020-23

Sl. No	Name of Students	CU Registration Number	SGPA (semester-wise)						CGPA	Grade
			I	II	III	IV	V	VI		
1	Adwitiya Ghosh	513-1211-0165-20	7.8	8.3	7.6	6.7	6.99	7.46	7.46	A
2	Anshu Sikdar	513-1112-0246-20	7.37	8.1	8.1	6.48	5.7	6.36	6.99	B+
3	Ajjiul Mistry	513-1114-0031-20	7.8	8.2	8.0	6.15	5.5	6.4	6.98	B+
4	Dipankar Chatterjee	513-1111-0221-20	7.6	8.2	8.2	6.5	6.07	6.26	7.1	A
5	Dipankar Giri	513-1114-0252-20	8.0	8.25	8.0	5.55	5.77	6.4	6.9	B+
6	Kakali Bhandari	513-1211-0240-20	7.9	8.38	7.9	7.2	7.2	7.29	7.6	A
7	Kushal Naskar	513-1112-0086-20	8.1	8.6	8.3	6.68	6.8	6.7	7.5	A
8	Latifa Gazi	513-1211-0059-20	7.88	8.3	8.1	Not Clear				
9	Liza Chetri	513-1211-0170-20	7.5	8.06	7.77	5.65	5.79	6.18	6.77	B+
10	Megnath Das	513-1111-0120-20	7.96	8.3	8.56	Not Clear	5.57	5.09		
11	Nitish Roy	513-1111-0181-20	7.69	7.9	7.4	4.77	5.29	6.16	6.45	B+
12	Pritam Naskar	513-1112-0138-20	7.75	8.2	7.9	5.6	6.6	6.5	7.2	A
13	Rajib Molla	513-1115-0251-20	7.95	8.13	7.88	6.2	6.48	7.1	7.25	A
14	Rinki Naskar	513-1212-0185-20	7.78	7.99	7.9	Not Clear				
15	Rohan Nayek	513-1111-0147-20	7.4	8.0	7.66	5.17	Not Clear	5.39		
16	Sajeda Khatun	513-1211-0026-20	8.45	8.5	7.48	5.8	Not Clear	6.46		
17	Shrabanti Mondal	513-1212-0228-20	8.4	8.47	7.8	6.3	6.9	7.2	7.47	A
18	Soumyadeep Basu	513-1111-0065-20	7.99	8.18	8.15	6.1	5.75	6.6	7.03	A
19	Suchandra Sardar	513-1211-0019-20	8.59	8.7	7.5	5.7	6.05	6.5	7.09	A
20	Tanmoy Patali	513-1114-0084-20	7.68	8.1	7.9	5.4	5.7	6.38	6.8	B+
21	Tithi Mondal	513-1212-0877-20	7.89	8.46	8.0	6.06	6.3	Not Clear		

21 candidates appeared in Semester VI 2023 End Semester Examination, out of which CGPA 6-7 was secured by 6 students with Grade B+ and 09 students had CGPA 7-8 with Grade A.


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STUDENT PROGRESSION

Batch of 2020:

	Name	Progression after BA
1	Papiya Panja	MA from Vidyasagar University
2	Rani Laskar	MA from Vidyasagar University
3	Sneha Das	MA from Vidyasagar University
4	Triasa Paul	MA from Vidyasagar University

Student Employment 2019-2020 (Batch)

	Name	Batch	Organization, Position, Salary
1	Anteem Naskar	2020	Rebrace Pharma as Medical Representative with CTC of 3lakhs and 23,000/- per month.
2	Arka Bagchi	2020	Physicswallah Pvt.Ltd as Academic Co-ordinator 20,000/- per month approximately.

Batch of 2021

	Name	Progression after BA
1	Sourav Sardar	M.A in Rabindra Bharati University(RBU)
2	Dipankar Das	M.A in University of Calcutta(CU)
3	Rajesh Mondal	M.A in Rabindra Bharati University(RBU)
4	Jayeeta Dutta	M.A in Netaji Subhas Open University(NSOU)
5	Md. Tauquir Alam	M.A in Netaji Subhas Open University(NSOU)
6	Lilufa Khatun	M.A in Netaji Subhas Open University(NSOU)
7	Prithika Roy	M.A in Netaji Subhas Open University(NSOU)
7	Sushmita Sanpui	B.Ed in Private Institution
8	Susmita Das	M.A in Netaji Subhas Open University(NSOU)
8	Rakhi Debnath	M.A in Netaji Subhas Open University(NSOU)
9		
10		


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Student Employment 2020-2021 (Batch)

Name	Batch	Organization, Position, Salary
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1	Soumitra Dey	2021	M.P.Birla Cement. Sales Executive, 19000/-
2	Raju Das	2021	Pvt. Company, Sales- Loan Collection, 15000/-
3	Ruksana Khatoon	2021	Sub Way SFIC as Manager, 12500/-
4	Tanu Bera	2021	Airtel Call Centre, Telecaller Executive, 8000/-


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SANSKRIT

PROGRAMME AND COURSE OUTCOME OF SANSKRIT

HONOURS UNDER CBCS

Programme Outcome (PO)

PO1: After completing three years of Sanskrit Honours course students will be graduates having Sanskrit Honours degree. Their newly acquired knowledge helped them to survive in the field of higher studies in various multi-disciplinary streams

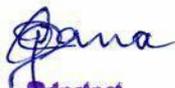
PO2: Various multi-disciplinary research works in the field of Indology have been providing a lot of opportunities which will also benefit them financially. Several universities around the world in the field of Indology has been providing well amount of fellowship for comparative studies. So students can easily apply for that to get higher benefits.

PO3: After completing graduation they will work in different fields related to translation. There are vast unpublished Manuscripts in the field of Sanskrit world; not to publish due to inadequate of Sanskrit translators

PO4: If possible after completing graduation they will also pursue B.ED degree and go for teaching at secondary or higher secondary Schools. Not only this, they will also pursue M. Phil or P.HD degree for higher studies.

PO5: Every year Google also take translators from English to Sanskrit for Digitalization. So, students of Sanskrit have huge opportunities to get chance in these before said fields.

PO6: Knowledge and language always interrelated with each other. A huge amount of ancient Indigenous texts were written in Sanskrit language. Naturally studying Sanskrit will open up various dimensions of Indian knowledge system so that students can easily relate ancient educational system with modern one. It will also help them to understand the socio-cultural diversities in India.


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Programme Specific Outcome (PSO):

PSO1: Extensive knowledge of Sanskrit literature as well as acquisition of language will open up several dimensions of Sanskrit study which will benefit in their future studies such as Interdisciplinary, linguistic and modern AI field of knowledge.

PSO2: The course aims to train the students to learn and appreciate the linguistic diversities of India and not only that this will also help them to understand the core field of Indological studies. Several universities around the world in the field of Indology has been providing well amount of fellowship for comparative studies. It will also benefit them to uplift their innovation.

PSO3: The course also aims to explore them various unpublished work in manuscripts which has been written in different languages. It also helps them to translate from Sanskrit to colloquial language which becomes understandable to other persons who has interest in the field by did not understand because of less knowledge in Sanskrit language.

PSO4: They also do higher education according to their special interest which also be granted as a special contribution in higher study especially in the field of PHD or D.Litt. etc.

PSO5: Google also takes a large scale of translators in every year from for Sanskrit Digitalization. So, if they acquire a good knowledge of language they have huge opportunities to get chance in these before said fields

PSO6: Language, literature and cognition are interrelated with each other. A large amount of ancient Indigenous texts were in preserved because of inadequate number of translators. So if students are able to open up that closed door new light might be enlighten to us which will create a new history of our land, of our society as well as culture. Sanskrit will open up various dimensions of Indian knowledge system so that students can easily relate ancient educational system with modern one. It will also help them to understand the socio-cultural diversities in India.

Course Outcome (CO):

Semester	Course Topic	Course Outcome(CO)
I	CC1: Classical Sanskrit Literature (POETRY)	CO1 <ul style="list-style-type: none">• Students can understand the inner perspective and the purpose of writing of these literature• They knew the structure of the sentences and its implementation in different fields• They have learned grammatical analysis, translation, explanation, and poet's commentary on the society.• They get knowledge about the origin and development of Indian traditional heritage of literature.
	CC2: Critical Survey of Sanskrit Literature	CO2 <ul style="list-style-type: none">• It will help them to inter-relate ancient literature with modern one.
II	CC3: Classical Sanskrit Literature (PROSE)	CO3 <ul style="list-style-type: none">• They have acquired social and political thoughts depicted in these texts• They get knowledge about how to control our mind through learning the text Gita• They also aware about the clarity of buddhi, controlling over senses, resolution of conflict over mind when it comes. How to controls EGO etc



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		<ul style="list-style-type: none"> • They also learn communicative English as AECC.
	CC4: Self Management in the Gita	CO4 <ul style="list-style-type: none"> • How we control our self-emotions in any kind of unpredictable situation, they will learned about it • It also guides them to maintain a proper balance in life.
III	CC5: Classical Sanskrit Literature (DRAMA)	CO5 <ul style="list-style-type: none"> • They get acquainted with the personification of nature and its modern implementation • They have known about the purpose and design of the Kalidasa's <i>Magnum opus Sakuntalam</i> • They also get aware about the system of ancient marriage policy, their social background, Tax and Social system as well. • Students also knew about the origin and development of Sanskrit Drama and its modern relevance they have aware of the power of word and its meaning and also their internal relationship with figure and speech. • They knew different type of speeches • They have get knowledge about the position of women in our ancient

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		<p>society.</p> <ul style="list-style-type: none"> • Social values of life according to our Indian Ethical system they have learned. • They also knew about the caste system and socio- cultural diversities of ancient Indian background. • They have developed their writing skill which has reflected in writing skill as well.
	CC6: Poetics and Literary Criticism	<p>CO6</p> <ul style="list-style-type: none"> • They will acquire a good knowledge about ancient Poetics and literary criticism and its modern aspects.
	CC7: Indian Social Institution and Polity	<p>CO7</p> <ul style="list-style-type: none"> • They have understood about ancient Indian polity and its modern implementation.
	SEC-A-1: Sanskrit Writing Skill	<p>CSECA1</p> <ul style="list-style-type: none"> • They have acquired a good scale of knowledge regarding how to write in Sanskrit and how it will help in modern linguistic phenomenon.
IV	CC8: Indian Epigraphy, Paleography and Chronology	<p>CO8</p> <ul style="list-style-type: none"> • Students have learned importance of India Inscriptions in the reconstruction of Ancient Indian History and Culture • History and development of Indian scripts and its modern implementation.

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		<ul style="list-style-type: none"> • Students knew about the antiquity of the art of writing. • Students have known the development of the history of modern Sanskrit literature in Bengal and across the Bengal. • They have acquired knowledge about Sanskrit studies across the world and its modern relevance. • They have understand impact of Indian Epics in South-East Asia and its modern implementation • Students have gained knowledge about different Sanskrit study centers in Asia and Europe and scope of learning Sanskrit across the world.
	CC9: Modern Sanskrit Literature	CO9 <ul style="list-style-type: none"> • They have gained knowledge about modern Sanskrit literature and its modern implementation.
	CC10: Sanskrit World Literature	CO10 <ul style="list-style-type: none"> • It will help to understand the modern position about Sanskrit literature and cope with modern World literature.
	SEC-A-2: Spoken and Computational Sanskrit	CSECA2 <ul style="list-style-type: none"> • Spoken Sanskrit will help them to uplift their communication skill and enhance their personality.
V	CC11: Vedic Literature	CO11 <ul style="list-style-type: none"> • Students have acquired knowledge about the Vedic period, its knowledge system, meter, vast domain of literature

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		<ul style="list-style-type: none"> • Students knew about the very popular philosophical texts like <i>Vivekacūḍāmaṇi</i>, <i>Tarkabhāṣā</i> etc and its modern implementation in psychological world • Students have known about the fundamental structure of Sanskrit grammar that is Kāraka, Samāsa. • They have make sentences fluently because of adequate knowledge of grammar that they have also learned. • They have known about the classification of language, phonetic laws, phonetic tendinitis
	CC12: Sanskrit Grammar	CO12 <ul style="list-style-type: none"> • It will help them to understand the linguistic phenomenon of the language.
	DSE-A-1: Darśana	CDSEA1 <ul style="list-style-type: none"> • They have acquired knowledge about the core concept of philosophical tenets of Sanskrit studies.
	DSE-B-1: Kāvya	CDSEB1 <ul style="list-style-type: none"> • They will understand about the whole perspective of Sanskrit literature and its modern evolution as well.
VI	CC13: Indian Ontology & Epistemology	CO13 <ul style="list-style-type: none"> • They have known about the meaning and purpose of darsana and its general classification i.e. āstika and nāstika and their impact on other philosophical branches.



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		<ul style="list-style-type: none"> • They have acquired knowledge about several philosophical offshoots likes Realism, Dualism, Monism, Pluralism, Idealism etc • They knew about the concepts of padārtha, definition of their different types of presentations • They have learned social and cultural aspects of Indian learning method through Upanisadic views. • They have acquired knowledge about how to communicate in Sanskrit language through Spoken Sanskrit Classes which enrich their communication skill also.
	CC14: Sanskrit Composition & Communication	CO14 <ul style="list-style-type: none"> • It wills them to acquire good communication skill about Sanskrit language and its communication skill.
	DSE-A-2: Vyākaraṇa	CDSEA2 <ul style="list-style-type: none"> • Grammar always helps to understand how a language works and how it will connect with another person with signals. So this course will understand them about language acquisition.
	DSE-B-2: Veda	CDSEB2 <ul style="list-style-type: none"> • Ancient Vedic knowledge will help them to uplift our ancient tradition and its modern implementation in the fields like linguistic, Ayurveda, modern Math and Quantum Physic also.



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MAPPING OF CO, PO, PSO

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO1	√	√	√			√	√	√	√			√
CO2	√	√			√		√	√			√	
CO3	√	√				√	√	√				√
CO4	√	√	√			√	√	√	√			√
CO5	√	√		√			√	√		√		
CO6	√	√		√			√	√			√	√
CO7		√	√		√	√		√	√		√	
CO8	√		√	√		√		√	√		√	√
CO9		√	√	√					√	√	√	
CO10	√	√	√		√	√						
CO11	√	√		√		√	√	√	√	√	√	
CO12	√	√		√	√						√	√
CO13	√	√	√				√		√		√	√
CO14	√	√		√	√							
CSECA 1	√	√	√			√		√		√	√	√
CSECA 2	√		√		√		√		√	√		√
CDSEA 1	√	√		√			√	√		√	√	
CDSEA 2	√		√			√	√			√		√

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CDSEB 1	√	√		√			√	√		√	√	
CDSEB 2	√		√			√			√		√	√

Attainment of Course & Programme Outcome

The Institution aims to input education based on the course and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

Direct methods

Direct methods are employed to assess students' knowledge and skills in their regular assessment protocol. Class test, internal assessment tests, end semester examination, seminar, projects based on curriculum.

Indirect methods

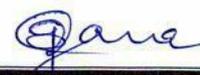
Indirect methods such as course exit survey reflect on students' views on Course and programme outcomes and their impact on learning and future applications. Another indirect way to evaluate the learning outcome of the students is to keep a record of the progression of the students to higher studies and placements after completing graduation

Following tables show the various methods used in assessment process...


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ATTAINMENT THROUGH DIRECT METHOD

Sl. No	Direct Assessment Method	Assessment Frequency	Description
1.	Entry level Assessment Test	Once for newly admitted 1 st sem (year) students	It is a surprise test taken at the beginning of the study of UG syllabus to assess students' knowledge at the (+2) level
2.	Internal Assessment Test	Once in a semester in each course	Internal assessment is taken on full syllabus after completion. It will be for 10 marks of each course.
3.	End Semester Examination	Once in a Semester	<p>End Semester examination (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student.</p> <p>End Semester Examination are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December- January and Semester-II, Semester-IV, Semester-VI in June-July.</p>
4.	Class test	Frequently	It is a method used to continuously assess the students' understanding capabilities



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5.	Tutorial Examination	Once in a semester on each course	15 percent of the total marks is assigned to the tutorial examination each course which is distributing equally with a written test. These are conducted to assess students' conception, communication, presentation skill and understanding the subjective knowledge.
5.	Attendance	As per CU rules	Total 10 marks is allotted for all CBCS courses: The marks obtain in every course from Class Attendance by the students has the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered, 8 marks for attending 75% or above but less than 90% of the number of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later

1. Internal assessment dates and record of marks; Scanned copies of statement of marks if possible:


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DEPARTMENT OF SANSKRIT
CONM TINIOUS INTERNAL EVALUATION (CIE)
ACADEMIC SESSION-2020-2021

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION
17.12.2020	I	CC-1	<i>Kiratarjuniyam,</i>	10	S.B	S.Q
20.12.2020	I	CC-2	History of Vedic literature	15	P.S.B	B.Q
22.12.2020	I	CC-1	<i>Kumarasambhavam</i>	10	R.S	S.Q
15.1.2021	I	CC-2	History of Vedic literature	15	P.S.B	S.Q
26.9.2020	III	CC-3	History of classical Sanskrit literature	15	R.S	SQ
6.9.20220	III	CC-3	<i>Svanpavasavadattam</i>	10	P.S.B	BQ
16.10.2020	III	CC-6	Alamkara	15	R.S	SQ
3.10.2020	III	CC-7	Saptangatattva	10	P.S.B	SQ
5.1.2021	III	CC-6	Abhidha, lakmana and vyanjana	10	S.B	S.Q
20.2.2021	III	CC-6	<i>Rasasutra</i>	15	S.B	S.Q
4.2.2021	V	DSE-B-1	<i>Sahityadarpana</i>	10	S.B	B.Q

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6.2.2021	V	CC-11	<i>Brhadaranyakopanisad</i>	15	S.B	S.Q
16.4.2021	II	CC-4	<i>Gita</i>	10	S.B	S.Q
16.4.2021	II	CC-3	History of Vedic literature	15	P.S.B	B.Q
6.5.2021	II	CC-3	History of Vedic literature	15	R.S	B.Q
15.7.2021	II	CC-4	<i>Gita</i>	10	R.S	B.Q
11.5.2021	IV	CC-9	<i>Sivarajavijayam</i>	15	S.B	B.Q
10.5.2021	IV	CC-9	<i>Daridradurdaivam</i>	10	P.S.B	S.Q
19.4.2021	IV	SEC-B-2	Vyakaranam	10	R.S	S.Q
15.6.2021	IV	CC-9	History of modern Sanskrit literature	15	R.S	B.Q
12.4.2021	VI	DSE-A-3	Vyakaranam	10	P.S.B	S.Q
12.4.2021	VI	DSE-A-3	Vyakaranam	15	R.S	B.Q
3.5.2021	VI	CC-13	<i>Tarkasamgraha</i>	20	P.S.B	B.Q
28.4.2021	VI	DSE-B-4	<i>Mundakopanisad</i>	15	S.B	S.Q
30.4.2021	VI	CC-14	Vyakaranam	10	R.S	S.Q
25.6.2021	VI	CC-13	Darsana	15	R.S	B.Q


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DEPARTMENT OF SANSKRIT
CONM TINIOUS INTERNAL EVALUATION (CIE)
ACADEMIC SESSION-2021-2022

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION
8.10.2021	I	CC-1	<i>Raghuvamsam</i>	10	S.B	B.Q
16.1.2021	I	CC-1	Kumarasambhavam	10	R.S	S.Q
16.1.2021	I	CC-2	History of Indian philosophy	15	P.S.B	S.Q
18.1.2021	I	CC-1	<i>Raghuvamsam</i>	10	S.B	S.Q
16.09.2021	III	CC-5	<i>Svapavasavadattam</i>	15	P.S.B	BQ
7.9.2021	III	CC-5	History of Indian dramaturgy	10	R.S	SQ
23.9.2021	III	CC-5	<i>Abhijnanasakuntalam</i>	15	S.B	BQ
2.12.2021	III	CC-6	<i>Rasasutra</i>	10	S.B	SQ
3.12.2021	III	CC-7	Dandaniti	20	R.S	S.Q
6.12.2021	III	CC-6	<i>Rasasutra</i>	10	S.B	S.Q
8.9.2021	V	CC-11	<i>History of Vedic literature</i>	20	P.S.B	B.Q
30.9.2021	V	CC-11	<i>Manumatsya-katha</i>	10	P.S.B	S.Q
8.10.2021	V	DSE-A-1	<i>Vivekacudamani</i>	10	R.S	B.Q


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16.11.2021	V	DSE-B-1	<i>Sahityadarpana</i>	15	S.B	S.Q
5.4.2022	II	CC-3	<i>Sukanasopadesa</i>	10	P.S.B	S.Q
6.4.2022	II	CC-4	Gita	15	S.B	B.Q
11.4.2022	II	CC-4	Gita	10	R.S	S.Q
20.4.2022	II	CC-3	History of Sanskrit Dramma	20	R.S.	B.Q
3.5.2022	IV	CC-8	Inscription	10	R.S	S.Q
10.5.2022	IV	CC-9	<i>Sivarajavijayam</i>	15	S.B	S.Q
12.5.2022	IV	CC-10	<i>Ramayana</i>	10	P.S.B	S.Q
30.5.2022	IV	SEC-B-2	Vyakarana	10	R.S	B.Q
11.4.2022	VI	CC-13	Vyakaranam	10	R.S	S.Q
12.4.2022	VI	DSE-B-4	Vyakaranam	15	S.B	B.Q
17.5.2022	VI	CC-13	<i>Taittiriyaonisad</i>	10	P.S.B	B.Q
26.5.2022	VI	CC-14	<i>vyakaranam</i>	10	R.S	S.Q


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DEPARTMENT OF SANSKRIT
CONM TINIOUS INTERNAL EVALUATION (CIE)
ACADEMIC SESSION-2022-2023

DATE OF INTERNAL EVALUATION	SEMESTER	COURSE	TOPIC	FULL MARKS	TAKEN BY	PATTERN OF QUESTION
8.9.2022	III	CC-5	<i>Svapnavasavdattam</i>	10	P.S.B	B.Q
9.11.2022	III	CC-5	<i>Abhijnanasakuntalam</i>	15	S.B	S.Q
21.11.2022	III	Surprise test	Vyakaranam	10	R.S	S.Q
28.9.2022	I	CC-1	Vyakaranam	10	R.S	S.Q
2.12.2022	I	Surprise test	<i>Nitisatakam</i>	10	P.S.B	B.Q
6.12.2022	I	CC-1	<i>Raghuvamsam</i>	10	S.B	S.Q
30.8.2022	V	CC-13	Darsana	15	R.S	S.Q
1.12.2022	V	CC-11	Vedas and Vedic literature	20	P.S.B	B.Q
3.12.2022	V	CC-11	<i>Brhadaranakopanisa</i> <i>d</i>	20	S.B	B.Q



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4.4.2023	II	CC-4	<i>Gita</i>	10	S.B	S.Q
6.4.2023	II	CC-3	<i>Sukopasopadesa</i>	15	P.S.B	B.Q
11.4.2023	II	Surprise test	<i>Vyakaran</i>	10	R.S	S.Q
25.4.2023	II	CC-4	<i>Gita</i>	15	S.B	B.Q
8.5.2023	II	Surprise test	<i>Vyakaranam</i>	10	P.SB	S.Q
23.5.2023	II	CC-4	<i>Gita</i>	10	R.S	B.Q
16.3.2023	IV	CC-9	<i>Atha-kim</i>	10	P.S.B	B.Q
21.3.2023	IV	CC-8	<i>Inscription</i>	15	R.S	S.Q
23.3.2023	IV	CC-10	<i>History of modern Sanskrit literature</i>	10	S.B	B.Q
5.4.2023	IV	SEC-B-2	<i>Vyakaranam</i>	10	R.S	S.Q
12.4.2023	IV	CC-10	<i>History of modern Sanskrit literature</i>	10	S.B	S.Q
10.5.2023	IV	SEC-B-2	<i>Vyakaranam</i>	15	P.S.B	P.S.B
21.2.2023	VI	DSE-B-4	<i>Taittiriyaonisad</i>	10	S.B	S.Q
28.3.2023	VI	CC-14	<i>Vyakaranam</i>	20	R.S	S.Q
17.3.2023	VI	CC-13	<i>Surprise test</i>	10	P.SB	S.Q
22.3.2023	VI	CC-14	<i>Vyakaranam</i>	10	R.S	B.Q
29.3.2023	VI	CC-13	<i>darsana</i>	15	R.S	S.Q


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YR-2018

2018

SL.NO.	NAME	STREAM	ROLL NO.	REGN NO.	TELEPHONE NO.	RESULT	STATUS
1	RIYA ROY	SANA	2513-51-0085	513-1221-0835-15	8961290855	349	II
2	INDUSUMI DAS	SANA	2513-51-0086	513-1221-0877-15	8906447676	379	II
3	SUJATA NASKAR	SANA	2513-51-0087	513-1221-1013-15	7278144925	PNC	
4	BHASWATI MANDAL	SANA	2513-51-0088	513-1221-1021-15	9775670405	331	II
5	MINATI SARDAR	SANA	2513-51-0089	513-1222-0833-15	8334010606	304	P
6	MINATI MONDAL	SANA	2513-51-0090	513-1222-0873-15	9874053096	PNC	
7	SUSMITA MONDAL	SANA	2513-51-0091	513-1222-0899-15	8584939114	PNC	
8	PRIYANKA DAS	SANA	2513-51-0092	513-1222-0911-15	9874241107	PNC	
9	PALLABI PAIK	SANA	2513-51-0093	513-1222-0933-15	9679489975	400	PNC
10	DALIA NASKAR	SANA	2513-51-0094	513-1222-0983-15	8945562151	375	II
11	TUSHI MONDAL	SANA	2513-51-0095	513-1222-1059-15	8609613700	PNC	
12	GOURI HALDER	SANA	2513-51-0096	513-1222-1081-15	7074286822	327	II
13	RATNA BERA	SANA	2513-51-0097	513-1224-0837-15	9051567056	PNC	
14	SUBHASHREE MONDAL	SANA	2513-51-0098	513-1224-0881-15	8436643756	PNC	
15	LABANI SARKAR	SANA	2513-51-0099	513-1222-1723-15		PNC	
16	RAHUL RUIDAS	SANA	2513-51-0100	513-1222-1875-15		389	II
17	PRITISREE MONDAL	SANA	2513-51-0101	513-1221-0289-14	9163267113	PNC	
18	PULAK MONDAL	SANA	2513-61-0076	513-1121-0981-15	9093527721	401	II
19	ALAKESH MAHAPATRA	SANA	2513-61-0077	513-1121-1073-15	9163903906	434	II
20	BUBUL BAIDYA	SANA	2513-61-0078	513-1121-1093-15	7584026360	PNC	
21	SWARAJ MONDAL	SANA	2513-61-0079	513-1122-0869-15		PNC	
22	SOUVIK SARKAR	SANA	2513-61-0080	513-1122-0895-15	9874153643	292	P
23	RATAN MANDAL	SANA	2513-61-0081	513-1122-1027-15	9874012644	PNC	
24	KOUSHIK BAIN	SANA	2513-61-0082	513-1122-1049-15	9635330041	PNC	
25	ABHISHEK ROY	SANA	2513-61-0083	513-1123-0927-15	9002910289	PNC	
26	PRASENIT SARDAR	SANA	2513-61-0084	513-1123-1035-15	9733668316	PNC	
27	PINTU NASKAR	SANA	2513-61-0085	513-1222-0963-15	7059653203	PNC	


Principal
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Result of 2019

YR-2019

2019

SL. NO.	NAME	STREAM	ROLL NO.	REGN. NO.	TELEPHONE NO.	RESULT	STATUS
1	PRIYA SAMUL	SANA	2513-51-0070	513-1221-0572-16	8597847251	364	II
2	SUSMITA GIRI	SANA	2513-51-0071	513-1221-0607-16	8017054431	376	II
3	TRIPTI RAY	SANA	2513-51-0072				PNC
4	LABONI SARDAR	SANA	2513-51-0073	513-1222-0514-16	9007422265	466	II
5	SONA DAS	SANA	2513-51-0074			449	II
6		SANA	2513-51-0075			371	II
7		SANA	2513-51-0076				PNC
8	PRIYANKA MANDAL	SANA	2513-51-0077			433	II
9	PUJA MONDAL	SANA	2513-51-0078	513-1222-0566-16	7063200181	425	II
10	SONIA MONDAL	SANA	2513-51-0079	513-1222-0610-16	7059650325	377	II
11		SANA	2513-51-0080				PNC
12	MALATI GAYEN	SANA	2513-51-0081			403	II
13	CHAMELI MONDAL	SANA	2513-51-0082			428	II
14	ANJALI PURKAIT	SANA	2513-51-0083				QX3-SANA
15	SIMA BARKANDAJ	SANA	2513-51-0084			393	II
16	SUJATA KUMAR	SANA	2513-51-0085			440	II
17	PAROMITA NASKAR	SANA	2513-51-0086	513-1222-0574-16	9123630094	305	P
18		SANA	2513-51-0087			338	II
19	ASHIM SARDAR	SANA	2513-61-0064	513-1122-0599-16	9836361395	427	II
20	PALAS SARDAR	SANA	2513-61-0065	513-1123-0518-16	6295777374	373	II
21	SUDIP MANDAL	SANA	2513-61-0066	513-1124-0841-14	8697336820	336	II


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Result of 2020

YR-2020

2020

SL.NO.	NAME	M/F	CAST	STREAM	ROLL NO.	REGN.NO.	TELEPHONE NO.	RESULT	STATUS
1	PRATIMA MAITI	F	GEN	SANA	2513-51-0114	513-1211-0288-17		542	I
2	BAISAKHI SAHA	F	OBC-B	SANA	2513-51-0115	513-1211-0369-17		530	I
3	SAYANTANI DAS	F	SC	SANA	2513-51-0116	513-1211-0412-17			PNC
4	TULIKA CHAKRABORTY	F	GEN	SANA	2513-51-0117	513-1211-0694-17		432	II
5	PIU MONDAL	F	SC	SANA	2513-51-0118	513-1212-0270-17		542	I
6	TITHI DAS	F	SC	SANA	2513-51-0119	513-1212-0279-17		474	II
7	ARCHANA MAKHAL	F	OBC-B	SANA	2513-51-0120	513-1212-0313-17		531	I
8	RIYA NASKAR	F	SC	SANA	2513-51-0121	513-1212-0381-17		463	II
9	CHUMKI MANDAL	F	SC	SANA	2513-51-0122	513-1212-0397-17		485	I
10	SONALI BISWAS	F	OBC-B	SANA	2513-51-0123	513-1212-0407-17		440	PNC
11	MADHUMITA MONDAL	F	SC	SANA	2513-51-0124	513-1212-0411-17		499	I
12	TANUSREE NASKAR	F	SC	SANA	2513-51-0125	513-1212-0418-17		493	I
13	RIMA HALDER	F	SC	SANA	2513-51-0126	513-1212-0691-17		448	II
14	SAYANI BARMAN	F	GEN	SANA	2513-51-0127	513-1212-0732-17		501	I
15	SUJAY MANDAL	M	SC	SANA	2513-61-0089	513-1112-0250-17		507	I
16	SUMAN HALDER	M	SC	SANA	2513-61-0090	513-1112-0302-17		432	II
17	SOUMYA GAYEN	M	OBC-B	SANA	2513-61-0091	513-1112-0306-17		485	I
18	SHUBHANKAR NAYEK	M	OBC-B	SANA	2513-61-0092	513-1115-0760-17		444	II
19	PRITHIRAJ SARDAR	M	SC	SANA	2513-61-0096	513-1113-0765-17		431	II

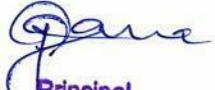

Principal
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Result of 2021

YR-2021

2021

SL.NO.	REGS.NO.	ROLL NO.	NAME	CGPA	MARKS	STATUS	SUB.
1	513-1212-0201-18		PRIYANKA MANDAL	8.453	338	SC	SANA
2	513-1112-0259-18		KAMAL SARDAR	7.256	290	SC	SANA
3	513-1112-0262-18		SUBHA DAS	8.131	325	SC	SANA
4	513-1112-0273-18		SUJIT SARKAR	8.134	325	SC	SANA
5	513-1112-0921-18		UMASHANKAR MANDAL	8.171	327	SC	SANA
6	513-1212-0279-18		SUMITA BISWAS	8.247	330	SC	SANA
7	513-1112-0285-18		ARUP MANDAL	8.3	332	SC	SANA
8	513-1212-0289-18		RATNA MONDAL	5.571	343	SC	SANA
9	513-1212-0295-18		DIPANJALI ROY	8.41	336	SC	SANA
10	513-1112-0296-18		ATISH MANDAL	8.353	334	SC	SANA
11	513-1214-0297-18		SUPARNA JANA	8.204	328	SC	SANA
12	513-1214-0306-18		LATA MAITY	8.209	328	SC	SANA
13	513-1214-0308-18		PAYEL DHARA	8.394	335	SC	SANA
14	513-1212-0309-18		SUDIPTA BAIDYA	8.629	345	SC	SANA
15	513-1212-0311-18		JAYASHREE SARDAR	8.507	340	SC	SANA
16	513-1212-0313-18		ANITA DAS	8.18	327	SC	SANA
17	513-1214-0314-18		ATASHI DUTTA	8.15	326	SC	SANA
18	513-1212-0319-18		SUDIPTA SARDAR	8.651	346	SC	SANA
19	513-1212-0320-18		TANEYA MAJUMDER	8.578	343	SC	SANA
20	513-1214-0321-18		MOUMITA GHOSH	8.551	342	SC	SANA
21	513-1212-0322-18		MOUMITA NASKAR	8.476	339	SC	SANA
22	513-1113-0328-18		HARIPADA SARDAR	8.065	322	SC	SANA
23	513-1214-0341-18		KEAYA SADHUKHAN	8.432	337	SC	SANA
24	513-1111-0362-18		MILAN PRASAD MAL	8.401	336	SC	SANA
25	513-1214-0379-18		PIYALI KAYAL	8.336	333	SC	SANA
26	513-1112-0380-18		RAHUL HALDER	8.131	325	SC	SANA
27	513-1211-0558-18		ARPITA ADHIKARI	8.292	332	SC	SANA
28	513-1211-0671-18		ANKITA DAS	8.04	321	SC	SANA
29	513-1211-0778-18		BANITA BARDHAN	8.064	322	SC	SANA
30	513-1211-0853-18		RIMPA GHOSH	8.092	323	SC	SANA


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Result of 2022

TR-2022

2022

SL.NO.	REGS.NO.	ROLL NO.	NAME	CGPA	MARKS	STATUS	SUB.	MOB.NO.
1			ANIMESH MIDDYA	6.8	273	SC	SANA	7384981061
2			ANKITA SARKAR	4.65	187	SC	SANA	9163891097
3			ANUPAMA MONDAL			SNC	SANA	9749916232
4			ARPITA MANDAL	6.269	253	SC	SANA	7718794524
5			DEBDAS MANDAL	6.955	279	SC	SANA	7872110681
6			DIPIKA BANERJEE	5.232	211	SC	SANA	7586067067
7			INDRANIL MONDAL			SNC	SANA	7047785495
8			KRISHNA NASKAR			SNC	SANA	8972753852
9			Nahida Ali	5.804	233	SC	SANA	6289741479
10			NISHA BISWAS	5.666	228	SC	SANA	9681232427
11			PALLABI MONDAL	6.132	246	SC	SANA	7407969003
12			PIYALI SARDAR	5.493	220	SC	SANA	7003875035
13			RAJESH PAIK			SNC	SANA	9062644508
14			RAMKRISHNA GOSWAMI	6.314	253	SC	SANA	7363888873
15			RINI NASKAR			SNC	SANA	9674999746
16			SAMPA PATRA	5.897	237	SC	SANA	8145961855
17			SAMUDRA PRASAD MANNA			SNC	SANA	8981271039
18			SAPTADIP SARDAR	6.252	251	SC	SANA	7478336646
19			SOMA MONDAL	5.881	236	SC	SANA	6289958251
20			SONALI DAS			SNC	SANA	8910360946
21			SUDIPA MONDAL	5.396	218	SC	SANA	8513020358
22			SUPRIYA SARDAR			SNC	SANA	9330070523
23			SUSMITA DEB	5.895	237	SC	SANA	6289447811



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Result of 2023

2023

YR-2023

SANA SEMESTER-VI-2023 RESULT

SL.NO.	REGN.NO.	ROLL NO.	NAME	M/F	SUBJECT	CGPA
1	513-1211-0172-19	192513-11-0129	RINI NASKAR	F	SANA	7.094
2	513-1212-0104-20	202513-11-0075	Ujjayine Naskar	F	SANA	7.534
3	513-1212-0227-20	202513-11-0105	Siya Das	F	SANA	6.874
4	513-1112-0193-19	192513-21-0104	RAJESH PAIK	M	SANA	6.989
5	513-1111-0132-20	202513-21-0018	Rahul Biswas	M	SANA	7.88
6	513-1111-0231-20	202513-21-0038	Nimai Sarkar	M	SANA	7.378


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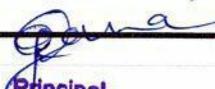
CHEMISTRY

PROGRAMME AND COURSE OUTCOME OF CHEMISTRY HONOURS

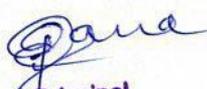
(UNDER CBCS)

Course Outcomes

Semester	CourseCode	Course Outcomes
SEM - 1	CC-1 (INORGANIC & ORGANIC CHEMISTRY)	CO - 1 <ul style="list-style-type: none">To know extra nuclear structure of atomTo understand acid base reactions in Inorganic ChemistryTo know the basic concepts of redox reactionsTo understand the basic concepts of organic chemistry based on chemical bonding and physical propertiesTo learn the basic reaction mechanism of Organic ChemistryTo study the estimation of ions or salts by acid-base titration method and oxidation-reduction titration method by hand-on practicalTo learn experimentally about the separation of compounds from a solid binary mixture by using common laboratory reagents
	CC-2 (PHYSICAL & ORGANIC CHEMISTRY)	CO - 2 <ul style="list-style-type: none">To understand the basic concept of kinetic theory of gases and know how to solve numerical problems related to that topic.To learn the transport processes of liquids and gases.To understand the kinetics of the reactionsTo learn the basic concepts of Stereochemistry of Organic moleculesTo study about the formation and stability of reaction intermediatesTo study the kinetics of decomposition of H₂O₂, acid-catalyzed hydrolysis of methyl acetate, viscosity measurement of unknown liquids, measurement of solubility of sparingly soluble salts.To know experimentally how to determine the boiling points of organic liquid compounds.
SEM - 2	CC-3 (ORGANIC CHEMISTRY)	CO - 3 <ul style="list-style-type: none">To learn stereochemistry of chiral compounds arises due to presence of chiral-axis; concept of prostereoisomerism and study of conformational analysis of some acyclic organic molecules.To understand reaction kinetics, reaction thermodynamics and tautomerism of organic compounds.To know reaction mechanisms of nucleophilic substitution reactions and elimination reactions.To learn experimentally how to synthesize, calculate the yield percentage and determine melting point of pure organic compounds in the laboratory.
	CC-4 (INORGANIC CHEMISTRY)	CO - 4 <ul style="list-style-type: none">To learn about the basic concepts and types of chemical bonding, laws, rules and equations for formation of chemical bonds, solubility, hybridization and dipole moment of molecules.To study the modern approaches of chemical bonding (Molecular Orbital Theory, Metallic Bonding concept, Role of weak intermolecular forces).To understand about the concept of radioactivity and radioactive compounds, nuclear reactions, artificial radioactivity, radio carbon dating, hazards of radiation and safety measures.To know experimentally how to estimate the percentage of chlorine in bleaching powder; vitamin C; arsenic and antimony in a sample by iodimetric titration method. Students can also learn how to estimate Cu in brass, Cr and Mn in steel and Fe in cement.


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SEM - 3	<p style="text-align: center;">CC-5 (PHYSICAL CHEMISTRY)</p>	<p style="text-align: center;">CO - 5</p> <ul style="list-style-type: none"> To learn in detail about the first and second laws of Chemical Thermodynamics and the related terms; to get idea about thermo-chemistry and thermodynamic relationships and system of variable compositions. To gain vast knowledge on chemical equilibrium and electrochemistry. To learn experimentally how to do the potentiometric and conductometric titrations of different compositions, determine the K_a of weak acid and heat of neutralization of a strong acid by a strong base.
	<p style="text-align: center;">CC-6 (INORGANIC CHEMISTRY)</p>	<p style="text-align: center;">CO - 6</p> <ul style="list-style-type: none"> To study in detail about modern periodic table, physical and chemical properties of the elements along a group or period, factors influences those properties, relativistic effects and inert pair effect. To study the chemistry of s and p block elements including noble gases and their compounds in detail. To learn about inorganic polymers in detail. To know the meaning of various terms involved in co-ordination chemistry, Werner's theory for complex formation, structural and stereoisomerism of co- ordination complexes. To learn the complexometric and gravimetric estimation of different ions, chromatographic separation of (i) Ni(II) and Cu(II) ions, (ii) Fe(III) and Al(III) ions.
	<p style="text-align: center;">CC-7 (ORGANIC CHEMISTRY)</p>	<p style="text-align: center;">CO - 7</p> <ul style="list-style-type: none"> To learn in detail about the synthesis, properties, and reaction mechanisms of alkenes and alkynes To understand about different types of electrophilic and nucleophilic aromatic substitution reactions, reaction intermediates and their mechanisms. To study the properties and reactions of carbonyl compounds and corresponding reaction mechanisms. To learn preparations, reactions and corresponding reaction mechanisms of organometallic compounds. To study experimentally the qualitative detection solid and liquid organic compounds. To learn experimentally the quantitative estimation of some organic compounds by titration method.
	<p style="text-align: center;">SEC-A</p>	<p style="text-align: center;">CSECA - 2</p> <p style="text-align: center;">SEC-A-2. ANALYTICAL CLINICAL BIOCHEMISTRY</p> <ul style="list-style-type: none"> Helps to understand about the preparation, structures, reactions and biological importance of carbohydrates, proteins, enzymes, lipids and lipoproteins. To know the biochemistry of different diseases through a diagnostic approach by blood and urine analysis.
	<p style="text-align: center;">CC-8 (ORGANIC CHEMISTRY)</p>	<p style="text-align: center;">CO - 8</p> <ul style="list-style-type: none"> To understand in detail about the synthesis, separation, properties, identification, chemical reactions and their corresponding mechanism of nitrogen containing compounds. Discussion about different kinds of rearrangement reactions. Helps to know the logic of organic synthesis To study UV-Visible, IR and 1H NMR spectroscopy in detail. Helps to know experimentally the qualitative analysis of single solid organic compounds and know to prepare derivatives of functional groups.


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SEM - 4	CC-9 (PHYSICAL CHEMISTRY)	<p style="text-align: center;">CO - 9</p> <ul style="list-style-type: none"> Helps to understand about the applications of Thermodynamics in Colligative Properties and Phase Equilibrium To study the fundamentals of Quantum Mechanics Helps to know the Bravais Lattice and Laws of Crystallography, Crystal Planes and Specific Heat of Solid To know experimentally how to study phase diagram of a Phenol-Water system, kinetic study of inversion of cane sugar, determination of partition co-efficient value, pH of an unknown solution and pH metric titration of an acid against strong base.
	CC-10 (INORGANIC CHEMISTRY)	<p style="text-align: center;">CO - 10</p> <ul style="list-style-type: none"> Helps to understand about the structures, stability, colour, magnetism and Orgel diagram of the co-ordination compounds on the basis of modern concepts of chemical bonding. To study the chemical and physical properties of d and f Block elements and their compounds. To learn the reaction kinetics and mechanisms of inorganic reactions. To study experimentally how to synthesize inorganic complexes and determine the λ_{max} values of inorganic complexes. To calculate the 10Dq value by spectrophotometric method.
	SEC - B	<p style="text-align: center;">CSECB - 3</p> <p style="text-align: center;">SEC-B-3. PHARMACEUTICALS CHEMISTRY</p> <ul style="list-style-type: none"> Helps to understand about the drug discovery, design and development of representative drugs of the following classes: Antipyretic, Analgesics, Anti-inflammatory, Anti-bacterial, Antifungal, Antiviral, Antibiotics, Anti-laprosy, Central Nervous System agents, HIV-AIDS related drugs To know about aerobic and anaerobic fermentation, importance of Vitamins and Amino acids, synthesis of Penicillin, Cephalosporin, Chloromycetin, Streptomycin and their role as an antibiotic. <p style="text-align: center;">CSECB - 4</p> <p style="text-align: center;">SEC-B-4. PESTICIDE CHEMISTRY</p> <ul style="list-style-type: none"> Helps to understand about the preparation, structures, properties, reactions, benefits and adverse effects of pesticide compounds
	CC-11 (PHYSICAL CHEMISTRY)	<p style="text-align: center;">CO - 11</p> <ul style="list-style-type: none"> Helps to understand the fundamental concept, basic terms, derivation and application of Quantum Mechanics To know about the necessary laws, rules, terms, expressions and derivations statistical thermodynamics To learn laws, rules and equations for numerical analysis of Roots of Equation and Least-Squares Fitting. To study about the Computer Programming on Roots of equation, Numerical differentiation and Numerical integration.
	CC-12 (ORGANIC CHEMISTRY)	<p style="text-align: center;">CO - 12</p> <ul style="list-style-type: none"> To learn in detail about the synthesis, properties, chemical reactions and reaction mechanisms of polynuclear hydrocarbons and their derivatives. To study the chemical reactions, properties and synthesis of heterocyclic compounds. To know in detail about the stereochemistry, properties and chemical reactions of alicyclic compounds. To learn the mechanism, stereochemistry and regioselectivity of pericyclic reactions. Helps to understand about the classification, structure, properties, reactions and use of carbohydrate molecules. Deals with the synthesis, structure, properties, chemical and biological reactions of
SEM-5		

		<p>amino acids, peptides and nucleic acids.</p> <ul style="list-style-type: none"> To learn experimentally how to separate molecules by chromatographic methods To study how to analyze the Organic compounds by spectroscopic techniques.
	DSE	<p style="text-align: center;">CDSEA – 2</p> <p style="text-align: center;">A-2. APPLICATIONS OF COMPUTERS IN CHEMISTRY</p> <ul style="list-style-type: none"> Helps to understand about the basics of computer programming (FORTRAN), creating and application of spreadsheet software (MS Excel) Helps to know about statistical data analysis. To learn how to prepare graphs by using spreadsheet, help to determine vapour pressure, rate constant, equilibrium constant, molar extinction coefficient value, concentration of ions at equilibrium and molar enthalpy of vapourisation. To study about the Acid-Base Titration Curve, Plotting of First and Second derivative Curve for pH metric and Potentiometric titrations, Calculation and Plotting of a Precipitation Titration Curve with MS Excel, Michaelis-Menten Kinetics for Enzyme Catalysis using Linear and Non - Linear Regression. <p style="text-align: center;">CDSEB – 1</p> <p style="text-align: center;">B-1. INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE</p> <ul style="list-style-type: none"> Helps to understand about the manufacture, properties, compositions, classes and applications of industrially important materials such as ceramics, glasses, cements, fertilizers, surface coating materials and batteries. To know about alloys, manufacture of steel, composition and properties of different types of steels. To learn about the general principles, properties, classification, industrial use, deactivation and regeneration of catalysis. Helps to understand about the preparation and explosive properties of organic and inorganic explosives and the basic idea of rocket propellant. To learn how to analyze the composition of cement, composition of percentage of metals in alloy, electroless metallic coatings on ceramic and plastic. To know how to determine free acidity in ammonium sulphate fertilizer, estimation of Calcium in Calcium ammonium nitrate fertilizer and phosphoric acid in superphosphate fertilizer.
	CC-13 (PHYSICAL CHEMISTRY)	<p style="text-align: center;">CO – 13</p> <ul style="list-style-type: none"> To study the Theoretical Principles in Qualitative Analysis To learn about Bioinorganic Chemistry and Organometallic Chemistry To know about the catalytic role of organometallic compounds in different types of industrial processes. To study experimentally the qualitative detection of known and unknown radicals and insoluble materials in a mixture.
SEM-6	CC-14 (INORGANIC CHEMISTRY)	<p style="text-align: center;">CO – 14</p> <ul style="list-style-type: none"> To learn in detail about molecular spectroscopy. To understand about the basic principles and laws of Photochemistry and also get idea about the theory of reaction rate. To know details about surface energy and surface tension; Classification, Adsorption Isotherms and applications of Adsorption; Classification, rules and properties of Colloids. To learn about the fundamental concepts, important equations, properties and applications of polarizability and dipole moment. To know how to determine surface tension of a liquid; Indicator constant of an acid base indicator; pH of an unknown buffer solution and CMC of a micelle experimentally. To study the kinetics of $K_2S_2O_8 + KI$ reaction and Verification of Beer and Lambert's Law for $KMnO_4$ and $K_2Cr_2O_7$ solution experimentally

	DSE	<p style="text-align: center;">CDSEA – 3</p> <p>A-3. GREEN CHEMISTRY AND CHEMISTRY OF NATURAL PRODUCTS</p> <ul style="list-style-type: none"> • To learn about green chemistry and its necessity. • To study about the principles of green chemistry and designing the green synthetic routes. • To know about the examples of green reactions and future trends in green reaction. • To learn the synthesis, psychological properties, isolation medicinal importance and other synthetic use of terpenes and alkaloids • To learn how to perform green synthesis of a number of organic compounds in the laboratory. <p style="text-align: center;">CDSEB – 3</p> <p>B-3. POLYMER CHEMISTRY</p> <ul style="list-style-type: none"> • To learn about the history, classification and functionality of polymeric materials. • To know about the kinetics of polymerization, details on crystallization and morphology of crystalline polymers, determination of crystalline melting point of a crystalline material and the factors effecting crystalline melting point. • To understand the nature and structure of polymers, determination of molecular weight of polymers and thermodynamics of polymer solution. • To study the preparation, structure, properties and application of different types of addition and condensation polymers. • To know how to prepare polymers by using free radical polymerization, redox polymerization, interfacial polymerization, precipitation polymerization, addition polymerization and condensation polymerization process. • To learn experimentally how to characterize and analyze a polymeric compound or material. <p style="text-align: center;">CDSEB – 4</p> <p>B-4. DISSERTATION</p> <ul style="list-style-type: none"> • To know how to do research work and write a review article on a particular field/topic as assigned by the supervisor/guide • To know how to present the research works or the review article.
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PROGRAM OUTCOMES (UNDER CBCS)

- **PO1:** Ready the graduate students for their career in government job, in industry and to motivate them for higher education and to take up research as a career.
- **PO2:** The student will be capable of applying modern technologies, handling advanced instruments and Chemistry related soft-wares to identify formulate and analyze complex scientific problems for chemical analysis and characterization of materials.
- **PO3:** The various branches of Chemistry can be helpful to graduate students to develop critical thinking and to design, carry out, record and analyze the results of chemical reactions also expose the diversified aspects of chemistry where the students experience a broader outlook of the subject that.
- **PO4:** The course curriculum has been designed to provide opportunity to act as team player by contributing in laboratory, field based situation, industry and also think methodically, independently and draw a logical conclusion.
- **PO5:** Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
- **PO6:** Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
- **PO7:** A Chemistry graduate student learn how to follow the green routes for the synthesis of chemical compounds and also find out new greener routes for sustainable development. The course also helps them to understand the causes of environmental pollution and thereby applying environmental friendly policies instead of environmentally hazard ones in every aspect.
- **PO8:** Chemistry graduate students can handle many decent instruments and advanced technologies to synthesize, characterize and analyze the chemical compounds very skillfully. Such a wonderful practice in the graduate level will bring a good opportunity to the students for getting job in industries besides academic and administrative works


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PROGRAMME SPECIFIC OUTCOME (PSO):

PSO-1: The students pursuing graduation in chemistry are expected to gain knowledge of the fundamental concepts of chemistry and applied chemistry through theory and practical. The students would have to develop in depth understanding of various aspects chemistry.

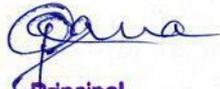
PSO-2: Graduates in Chemistry are expected to demonstrate, understanding and achieve critical thinking ability of the fundamental principles, including scientific reasoning to solve problems, of organic chemistry, inorganic chemistry, analytical chemistry and physical chemistry.

PSO-3: Students are expected to possess sufficient knowledge how to synthesize a chemical compound and perform necessary characterization and develop analytical abilities for independent thinking.

PSO-4: Chemistry students are expected to be well trained which will help student's to build-up a progressive and successful career in Chemistry.

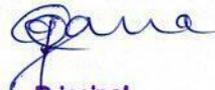
PSO-5: Graduates are expected to be team players, with productive co-operations involving members from diverse socio-cultural backgrounds.

PSO-6: Students will demonstrate research skills in chemistry, including proper laboratory notebook and record keeping skills, recognizing hazards, minimizing risks, and safe laboratory practices.


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MAPPING OF CO, PO, PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO-1	PSO-2	PSO-3	PSO-4	PSO-5	PSO-6
CO1	✓	✓			✓	✓		✓	✓	✓			✓	✓
CO2	✓		✓	✓	✓			✓	✓	✓		✓	✓	✓
CO3	✓				✓		✓		✓	✓	✓		✓	
CO4	✓	✓	✓		✓			✓	✓	✓				✓
CO5	✓					✓	✓				✓	✓		✓
CO6	✓	✓	✓					✓		✓		✓		
CO7	✓			✓	✓				✓		✓		✓	✓
CO8	✓		✓		✓		✓				✓		✓	
CO9	✓				✓			✓	✓	✓	✓		✓	✓
CO10	✓	✓		✓		✓						✓		
CO11	✓						✓			✓			✓	
CO12	✓		✓		✓				✓	✓	✓			✓
CO13	✓	✓		✓				✓					✓	
CO14	✓				✓									
CSEC A-2		✓		✓				✓		✓	✓	✓	✓	✓
CSEC B-3			✓			✓				✓				
CSEC B-4		✓		✓		✓			✓	✓			✓	✓
CDSE A-2			✓				✓	✓				✓	✓	
CDSE B-1		✓		✓	✓		✓	✓		✓	✓		✓	
CDSE A-3	✓		✓	✓	✓	✓		✓		✓		✓		✓
CDSE B-3	✓				✓		✓		✓			✓	✓	
CDSE B-4			✓		✓	✓	✓		✓				✓	✓


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ATTAINMENT THROUGH DIRECT METHODS

Sl. No.	Direct Assessment Method	Assessment frequency	Description
1	Internal Assessment Test	Once in a semester	Internal Assessment is held for 20% of the total marks of each paper/subject/module i.e. 20 marks for a paper of full marks 100. 50% of the total marks i.e. 10 marks is assigned to Internal Assessment is assessed on the basis of Internal Examination and remaining 50% i.e. 10 marks is assessed based on the class attendance
2	Class Test	As per requirement	It is a method used to continuously assess the student's understanding capabilities
3	End Semester Examination	Once in a semester	End Semester examination (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student. End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July.
4	Practical Semester Examination	Once in a semester	End Semester practical examinations assess whether all the students have acquired the practical applications of the particular subject by hands on tests. Examinations are held along with the theoretical schedule.
5	Presentations	As per requirement	Presentations are conducted to assess student's communication and presentation skills along with depth of the subject knowledge in the form of seminars, debates or group discussions.



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6	Attendance	As per CU rules	<p>Total 10 Marks is allotted for all CBCS courses:</p> <p>The marks obtained in every course from Class Attendance by the students have the following manner.</p> <p>6 marks for attending 60% or above but less than 75% of the number of lectures delivered, 8 marks for attending 75% or above but less than 90% of the number of lectures delivered, 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)</p>
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1. Internal assessment dates and record of marks; Scanned copies of statement of marks if possible.

Academic session – 2022-2023

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
23/06/2023	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
23/06/2023	VI	CC-14	Molecular Spectroscopy	10	Dr. Durba Ganguly	M.C.Q. , Offline
23/06/2023	VI	DSE-A3	Green Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
28/07/2023	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
28/07/2023	IV	CC-9	Physical Chemistry	10	Dr. Durba Ganguly	M.C.Q. , Offline
28/07/2023	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
28/07/2023	IV	SEC-B2	Pesticide Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
09/08/2023	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Offline
09/08/2023	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Offline


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Academic session – 2021-2022

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
29/06/2022	VI	DSE-B3	Polymer Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
29/06/2022	VI	DSE-A3	Green Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
29/06/2022	VI	CC-14	Molecular Spectroscopy	10	Dr. Durba Ganguly	M.C.Q. , Offline
29/06/2022	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
13/01/2023	V	CC-11	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Offline
13/01/2023	V	DSE-B1	Industrial Chemistry	10	Mr. Sumit Pal	M.C.Q. , Offline
13/01/2023	V	DSE-A2	Computer Application	10	Dr. Durba Ganguly	M.C.Q. , Offline
27/07/2022	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
27/07/2022	IV	CC-9	Physical Chemistry	10	Dr. Durba Ganguly	M.C.Q. , Offline
27/07/2022	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Offline
27/07/2022	IV	SEC-B2	Pesticide Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
17/01/2023	III	CC-5	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Offline
17/01/2023	III	CC-6	Inorganic Chemistry	10	Mr. Sumit Pal	M.C.Q. , Offline
17/01/2023	III	CC-7	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Offline
17/01/2023	III	SEC-A2	Analytical Biochemistry	10	Mr . Sandipan Mallik	M.C.Q. , Offline
27/07/2022	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Offline
27/07/2022	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Offline
21/06/2022	I	CC-1	Inorganic + Organic	10	Dr. Shefali Pal + Dr. Krishnendu Aich	M.C.Q. , Offline
21/06/2022	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik + Dr. Senjuti Banik	M.C.Q. , Offline


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Academic session – 2020-2021

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
02/08/2021	VI	DSE-B3	Polymer Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Online
04/08/2021	VI	CC-13	Bio-Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q, Online
05/08/2021	IV	CC-8	Organic Chemistry	10	Mr . Sandipan Mallik	M.C.Q. , Online
11/08/2021	IV	CC-10	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Online
13/08/2021	IV	SEC-B1	Pharmaceutical Chemistry	10	Mr. Sumit Pal	M.C.Q. , Online
14/08/2021	II	CC-4	Inorganic Chemistry-II	10	Mr. Sumit Pal	M.C.Q. , Online
31/08/2021	II	CC-3	Organic Chemistry-II	10	Dr. Krishnendu Aich	M.C.Q. , Online
11/03/2022	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik + Dr. Senjuti Banik	M.C.Q. , Offline


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Academic session – 2019-2020

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
19/03/2021	V	DSE-A2	Computer Application	10	Dr. Durba Ganguly	M.C.Q. , Online
22/03/2021	V	DSE-B1	Industrial Chemistry	10	Mr. Sumit Pal	M.C.Q. , Online
24/03/2021	V	CC-12	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Online
24/03/2021	V	CC-11	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Online
24/03/2021	III	SEC-A1	Mathematics And Statistics	10	Mr. Sumit Pal	M.C.Q. , Online
09/03/2021	III	CC-7	Organic Chemistry	10	Dr. Krishnendu Aich	M.C.Q. , Online
09/03/2021	III	CC-5	Physical Chemistry	10	Dr. Senjuti Banik	M.C.Q. , Online
22/03/2021	III	CC-6	Inorganic Chemistry	10	Dr. Shefali Pal	M.C.Q. , Online
24/03/2021	I	CC-2	Physical + Organic	10	Mr . Sandipan Mallik	M.C.Q. , Online
24/03/2021	I	CC-1	Inorganic + Organic	10	Dr. Shefali Pal	M.C.Q. , Online
22/12/2020	IV	SEC-B1	Pharmaceutical chemistry	10	Mr. Sumit Pal	M.C.Q. , Online


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RESULTS OF BATCH 2022-23

Roll-No	Name	Marks obtained						CGPA	Grade
		Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI		
203513-21-0006	Dip Mukherjee	348	353	470	345	238	308	7.77	A
203513-21-0137	Bhagaban Naskar	354	360	470	378	288	316	8.27	A+
203513-21-0147	Swapnil Ghosh	346	355	461	NA	NA	274	NA	NA
203513-21-0115	Utsav Mondal	359	356	454	330	236	295	7.67	A
203513-21-0058	Gopal Saha	353	364	460	344	240	297	7.79	A
203513-21-0151	Rakesh Mondal	307	324	445	NA	NA	NA	NA	NA
203513-11-0072	Dolan Mondal	363	370	463	354	240	299	7.905	A
183513-21-0011	Danish Ameen	NA	NA	445	347	NA	287	NA	NA
203513-11-0069	Shreya Jana	362	371	462	322	NA	NA	NA	NA

2. Final Results of Batch 18-19, 19-20, 20-21, 21-22, 22-23


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RESULTS OF BATCH 2021-22

Roll-No	Name	Marks obtained						CGPA	GRADE
		Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI		
13513-11-0002	Ankita Jana	289	322	431	441	371	269	8.14	A+
13513-11-0003	Anushree Chakraborty	276	327	427	442	367	273	8.071	A+
13513-11-0005	Jhuma Mazumdar	281	337	432	443	377	266	8.16	A+
13513-11-0006	Krishna Saw	302	316	427	441	364	257	8.09	A+
13513-21-0001	Soumyadip Dinda	254	313	416	435	362	256	7.76	A
13513-21-0002	Ayan Das Ghosh	297	311	410	435	357	251	7.848	A
13513-21-0003	Ritesh Khatua	263	307	428	442	351	NA	NA	NA
13513-21-0004	Aritra Dey	259	315	404	428	354	257	7.67	A
13513-21-0005	Sangeet Chakraborty	299	312	414	432	357	NA	NA	NA
13513-21-0006	Sunny Bose	279	291	379	395	335	NA	NA	NA
13513-21-0007	Diganta Halder	296	307	414	434	360	NA	NA	NA
13513-21-0117	Amit Aich	313	316	412	439	356	263	8.047	A+


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RESULTS OF BATCH 2020-21

Roll-No	Name	Marks obtained						CGPA	GRADE
		Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI		
183513-11-0002	Chandrani Pramanik	262	250	332	397	351	372	7.60	A
183513-11-0003	Aditi Saxena	264	246	307	370	353	365	7.35	A
183513-21-0002	Asish Kumar Khatua	250	274	285	385	352	368	7.39	A
183513-21-0005	Abhash Kayal	203	253	355	379	342	353	7.29	A
183513-21-0006	Argha Karmakar	260	265	306	394	341	366	7.38	A
183513-21-0007	Aniruddha Das	263	278	305	379	343	371	7.452	A
183513-21-0008	Pabitra Maity	230	266	299	373	348	358	7.18	A
183513-21-0009	Ayan Nath	243	254	309	397	340	351	7.27	A
183513-21-0013	Subha Ghorai	227	269	263	385	338	364	7.069	A
183513-21-0015	Soumen Chhatui	258	254	272	391	348	369	7.232	A
183513-21-0016	Debdutta Mondal	258	266	285	362	346	361	7.1	A
183513-21-0171	Atish Modak	268	273	323	405	349	373	7.569	A
183115-21-0272	Kingshuk Patra	247	253	360	372	347	353	7.319	A


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3. Progression to higher education

STUDENT PROGRESSION

Batch of 2023 (Year of Passing)

Name	Progression after B. Sc.
1 Gopal Saha	M.Sc.
2 Bhagaban Naskar	M.Sc.
3 Dip Mukherjee	M.Sc.
4 Dolan Mandal	M.Sc.

Batch of 2022 (Year of Passing)

Name	Progression after B. Sc.
1 Ankita Jana	M.Sc.
2 Krishna Saw	M.Sc.
3 Anushree Chakraborty	M.Sc.
4 Jhuma Mazumder	M.Sc.

Student Employment 2021-22(Batch)

Name	Batch	Organization, Position, Salary
1 Anushree Chakraborty	2022	Indian Post

Batch of 2021 (Year of passing)

Name	Progression after B. Sc.
1 Atish Modak	M.Sc in IIT
2 Soumen Chatui	M.Sc in IIT
3 Asish Khatua	M.Sc.
4 Aniruddha Das	M.Sc
5 Kingshuk Patra	B.Ed. Tet qualified
6 Chandrani Pramanik	M.Sc
7 Debdutta Mondal	B.Ed.
8 Pabitra Maity	B.Ed. Tet qualified
9 Meghna Bhattachryya	M.Sc

Student Employment 2020-2021 (Batch)

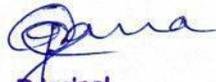
Name	Batch	Organization, Position, Salary
1 Aditi Saxena	2021	Associate : Wipro

2 Argha Karmakar 2021 Analyst – Chemical Process : Elogix Software Pvt. Ltd.
Batch of 2020:

	Name	Progression after B. Sc.
1	Utpalendu Nasker	B. Ed.
2	Amlan Halder	B. Ed.
3	Barun Dey	B. Ed.
4	Balaram Halder	B. Ed.
5	Subhadeep Barik	B. Ed. , CTET
6	Piyali Giri	B. Ed. , M.Sc.
7	Kartick Barik	B. Ed. , M.Sc.
8	Anamika Das	B.Ed. , Primary TET , CTET
9	Ankita Mondal	M.Sc
10	Sweety Shaw	M.Sc.

Student Employment 2019-2020 (Batch)

	Name	Batch	Organization, Position, Salary
1	Mahadev Mondal	2020	Chemist of Gold Testing Laboratory. P. C. Chandra Group
2	Balaram Halder	2020	Part Time job in a school
3	Kartick Barik	2020	Himadri Speciality Chemical Ltd.
4	Sweety Shaw	2020	Assistant Lecturer , Aakash Educational Services Ltd.


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PROGRAMME NAME: B. SC. CHEMISTRY (HONS.)

DEPARTMENT OF CHEMISTRY

INDIRECT METHOD

ACADEMIC SESSION : 2018 – 2023

SEMESTER – VI

**EXIT FORM SURVEY IS CONDUCTED THROUGH QUESTIONNAIRE
FOR RATING AND RELATION OF POS AND PSOS**

Feed Back Form for Chemistry (Hons.) Course: Batch: 2018 - 2023

Form description

Email *

Valid email address

This form is collecting email addresses. [Change settings](#)

Name and Year of Passing *

Short-answer text

Name and Year of Passing

 Copy

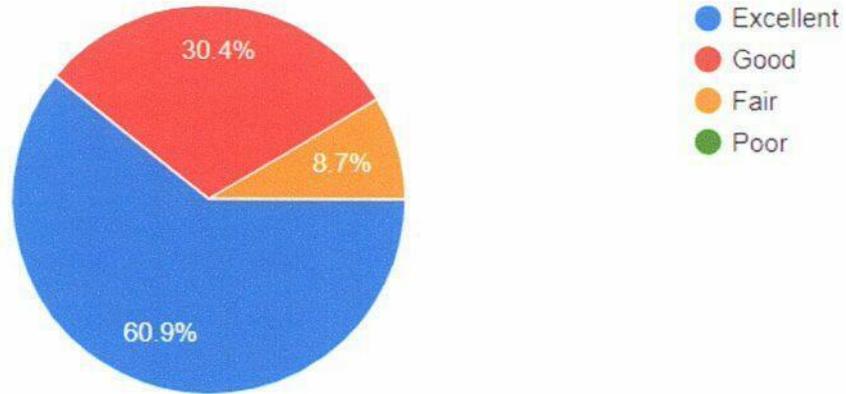
23 responses




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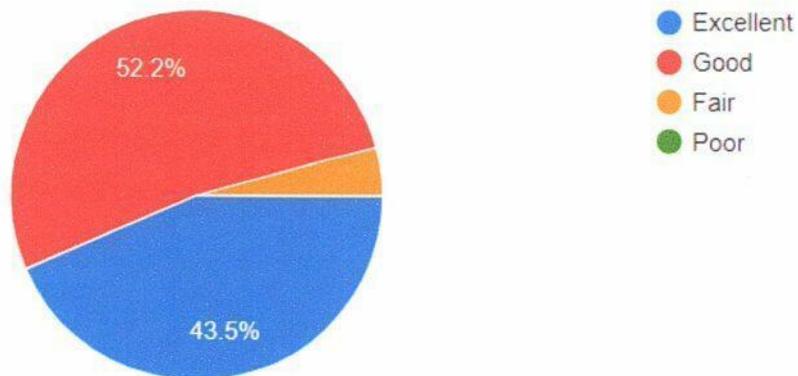
Was the course helpful in developing your interest and liking for the subject?

23 responses



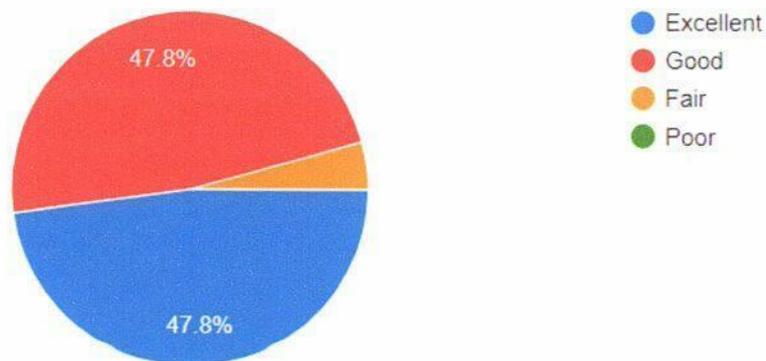
Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.

23 responses



Was a substantial part of the course helpful in giving an interdisciplinary knowledge?

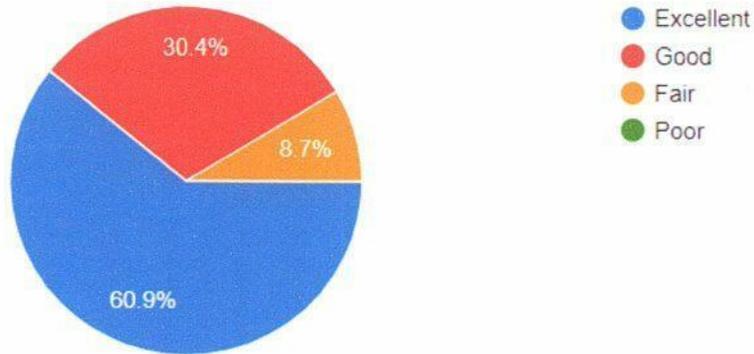
23 responses




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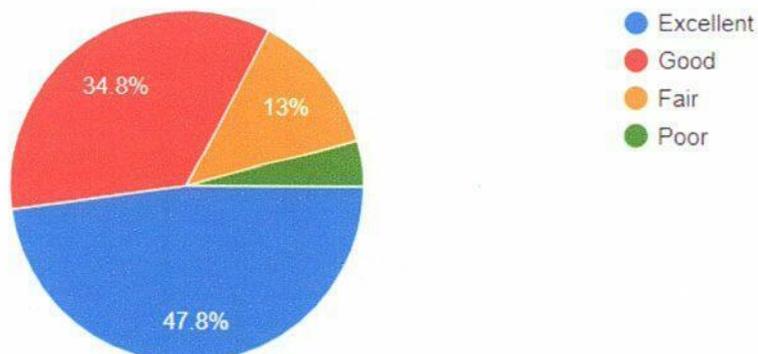
How would you you rate the course as far as experimental and practical trainings are concerned?

23 responses



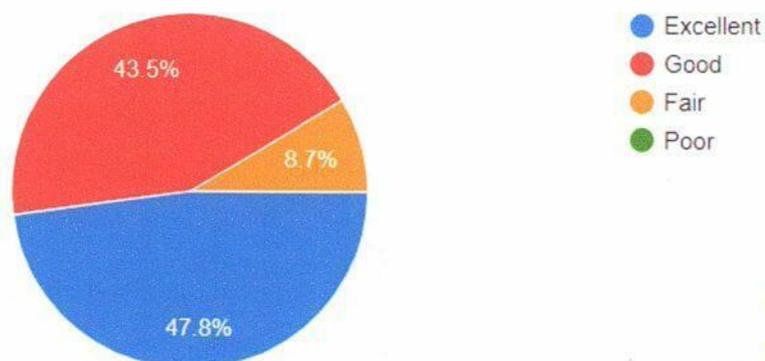
How would you you rate the course in terms of modern approaches and contemporary issues?

23 responses



How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?

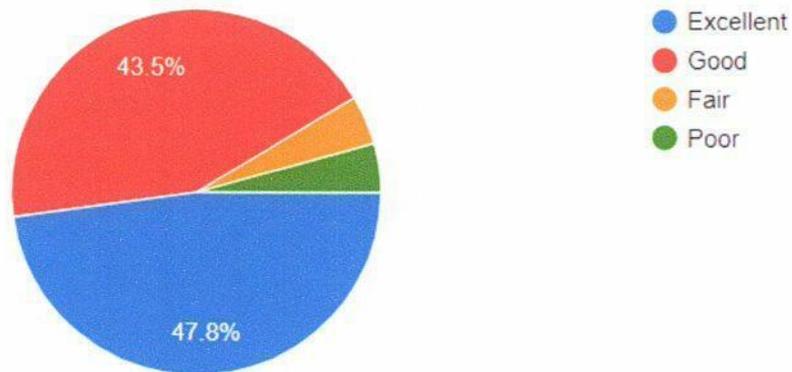
23 responses




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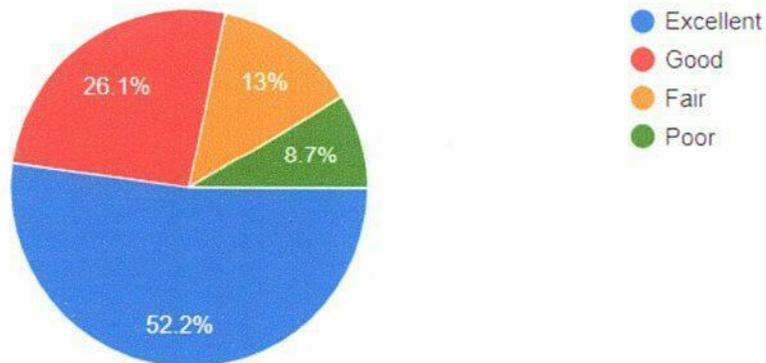
Does the course covers topics for exposure to environmental awareness and sustainability?

23 responses



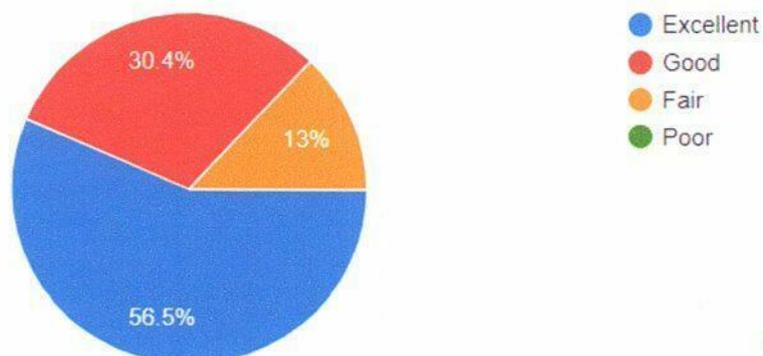
Does the course covers aspects of applications of the subject in industry and technology needed for job orientation?

23 responses



How would you rate the course in terms of developing orientation towards higher studies and research?

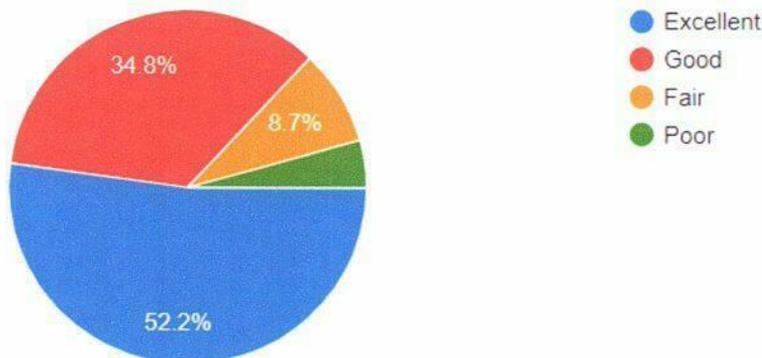
23 responses




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How would you rate the course in terms of relevance in the present education structure both at the national and international level?

23 responses



Average Rating (Excellent: 10, Good: 7, Average: 5, Poor: 3). Target Level: 7

Sl. No.	Questions	Average ratings of 23 students
1	Was the course helpful in developing your interest and liking for the subject?	8.653
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	8.48
3	Was a substantial part of the course helpful in giving an interdisciplinary knowledge?	8.341
4	How would you rate the course as far as experimental and practical trainings are concerned?	8.653
5	How would you rate the course in terms of modern approaches and contemporary issues?	7.866
6	How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?	8.26
7	Does the course covers topics for exposure to environmental awareness and sustainability?	8.04
8	Does the course covers aspects of applications of the subject in industry and technology needed for job orientation?	7.697
9	How would you rate the course in terms of developing orientation towards higher studies and research?	8.428
10	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	8.091

By Indirect Method, the target level of POs & PSOs for attainment has been reached successfully.


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Program Specific Outcomes

**For B.Sc. Under-Graduate Computer Science Honours and General
course, 2018 (Duration 3 years) under CBCS system**

Program Specific Outcomes (PSO's):

PSO1. The Computer Science graduates are able to analyze, design, develop, test and apply management principles, mathematical foundations in the development of computational solutions, make them to expert in designing the computer software and hardware.

PSO2. Develop their skills to solve problems in the broad area of programming concepts and appraise environmental and social issues with ethics and manage different projects in inter-disciplinary field.

Programme Outcomes:

PO1. Develop ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.

PO 2. To prepare students to undertake careers involving problem solving using computer science and technologies.

PO 3. Develop ability to pursue advanced studies and research in computer science.

PO 4. To produce entrepreneurs who can innovate and develop software product.

PO 5 - Apply the knowledge of mathematics, science, Computer fundamentals, and specialization to the solution of complex problems.

PO 6 - Problem analysis: Identify, formulate, review research literature, and analyze complex problems reaching substantiated conclusions using first principles of mathematics, natural sciences..

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PO 7 - Design/development of solutions: Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO 8 - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO 9 - Modern tool usage: Create, select, and apply appropriate techniques, resources, and IT tools including prediction and modeling to complex activities with an understanding of the limitations.

PO 10 - Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional practice.

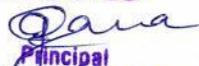
PO 11 - Environment and sustainability: Understand the impact of the professional solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO 12 - Ethics: Apply ethical principles and commit to professional ethics and responsibilities.

PO 13 - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO 14 - Communication: Communicate effectively on complex activities with the community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO 15 - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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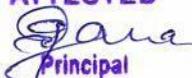
Course Outcomes

Core Course	Topic	Course Outcomes(CO)
Honours Papers		
CC-1		CO-1
For SEM 1	Digital Logic	<ul style="list-style-type: none"> • Realize basic gate operations and laws Boolean algebra • Understand basic structure of digital computer, stored program concept • and different arithmetic and control unit operations. • Introduce the concept of digital and binary systems • Be able to design and analyze combinational logic circuits. • Be able to design and analyze sequential logic circuits. • Understand the basic software tools for the design and implementation of digital circuits and systems. • To formulate simple algorithms for arithmetic and logical problems.
CC2		CO-2
For SEM 1	Programming Fundamentals using C	<ul style="list-style-type: none"> • To translate the algorithms to programs (in C language). • To test and execute the programs and correct syntax and logical errors. • To implement conditional branching, iteration and recursion. • To decompose a problem into functions and synthesize a complete program using divide and conquer approach. • To use arrays, pointers and structures to formulate algorithms and programs. • To apply programming to solve matrix addition and multiplication problems and searching and sorting problems. • To apply programming to solve simple numerical method problems, namely root finding of function, differentiation of function and simple integration •

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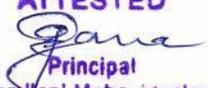
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CC-3 For SEM II	Data Structure	CO-3 <ul style="list-style-type: none"> • Differentiate how the choices of data structure & algorithm methods • impact the performance of program. • Solve problems based upon different data structure & also write programs. • Identify appropriate data structure & algorithmic methods in solving problem. • Discuss the computational efficiency of the principal algorithms for sorting, searching, • and hashing • Compare and contrast the benefits of dynamic and static data structures • implementations.
CC-4 For SEM II	Basic Electronic Devices and Circuits	CO-4 <ul style="list-style-type: none"> • Ability to analyze PN junctions in semiconductor devices under various conditions. • Ability to design and analyze simple rectifiers and voltage regulators using diodes. • Ability to describe the behavior of special purpose diodes. • Ability to design and analyze simple BJT and MOSFET circuits.

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<p>CC-5</p> <p>For SEM III</p>	<p>Computer Organization and Architecture</p>	<p style="text-align: center;">CO-5</p> <ul style="list-style-type: none"> • Understand basic structure of digital computer, stored program concept and different arithmetic and control unit operations. • Understand basic structure of different combinational circuits multiplexer, decoder, encoder etc. • Perform different operations with sequential circuits. • Understand memory and I/O operations • Learn pipelining concepts with a prior knowledge of stored program methods • Learn about memory hierarchy and mapping techniques. • Study of parallel architecture and interconnection network
<p>CC-6</p> <p>For SEM III</p>	<p>Computational Mathematics</p>	<p style="text-align: center;">CO-6</p> <ul style="list-style-type: none"> • Express a logic sentence in terms of predicates, quantifiers, and logical connectives. • Derive the solution for a given problem using deductive logic and prove the solution based on logical inference • Classify its algebraic structure for a given a mathematical problem, • Evaluate Boolean functions and simplify expressions using the properties of Boolean algebra • Develop the given problem as graph networks and solve with techniques of graph theory • Understand numerical techniques to find the roots of nonlinear equations and solution of system of linear equations. • Understand the difference operators and the use of Interpolation. • .Understand numerical Differentiation and Integration and numerical • solutions of ordinary and partial differential equations.

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CC-7 For SEM III	Operating Systems	CO-7 <ul style="list-style-type: none"> • Create processes and threads. • Develop algorithms for process scheduling for a given specification of CPU utilization, Throughput, Turnaround Time, Waiting Time, Response Time. • For a given specification of memory organization develop the techniques for optimally allocating memory to processes by increasing memory utilization and for improving the access time. Design and implement file management system. • For a given I/O devices and OS (specify) develop the I/O management functions in OS as part of a uniform device abstraction by performing operations for synchronization between CPU and I/O controllers
SEC-A-3-1 For SEM III	Computer Graphics	CO-8 <ul style="list-style-type: none"> • To list the basic concepts used in computer graphics. • To implement various algorithms to scan, convert the basic geometrical primitives, transformations, Area filling, clipping. • To describe the importance of viewing and projections. • To define the fundamentals of animation, virtual reality and its related technologies. • To understand a typical graphics pipeline • To design an application with the principles of virtual reality

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<p>CC-8 For SEM IV</p>	<p>Data communication, Networking and Internet technology</p>	<p style="text-align: center;">• CO-9</p> <ul style="list-style-type: none"> • Student will be able to understand network communication using the layered concept, Open System Interconnect (OSI) and the Internet Model. • Student will be able to understand various types of transmission media, network devices; and • parameters of evaluation of performance for each media and device. • Student will be able to understand the concept of flow control, error control and LAN protocols; to explain the design of, and algorithms used in, the physical, data link layers. • Student will understand the working principles of LAN and the concepts behind physical and logical addressing, subnetting and supernetting. • Student shall understand the functions performed by a Network Management System and to analyze connection establishment and congestion control with respect to TCP Protocol. • Student shall understand the principles and operations behind various application layer protocols like HTTP, SMTP, FTP.
<p>CC-9 For SEM IV</p>	<p>Introduction to Algorithms & its Application.</p>	<p style="text-align: center;">CO-10</p> <ul style="list-style-type: none"> • Argue the correctness of algorithms using inductive proofs and invariants. • Analyze worst-case running times of algorithms using asymptotic analysis. • Describe the divide-and-conquer paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize divide-and-conquer algorithms. • Derive and solve recurrences describing the performance of divide-and-conquer algorithms.

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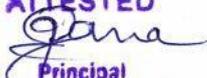
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		<ul style="list-style-type: none">• .Describe the dynamic-programming paradigm and explain when an algorithmic design situation calls for it. Recite algorithms that employ this paradigm. Synthesize dynamic- programming algorithms, and analyze them.• Describe the greedy paradigm and explain when an algorithmic design situation calls for it Synthesize greedy algorithms, and analyze them.• Explain the major graph algorithms and their analyses. Employ graphs to model engineering problems, when appropriate. Synthesize new graph algorithms and algorithms that employ graph computations as key components, and analyze them.• Compare between different data structures. Pick an appropriate data structure for a design situation.• Explain what an approximation algorithm is, and the benefit of using approximation algorithms. Be familiar with some approximation algorithms, including algorithms that are PTAS or FPTAS. Analyze the approximation factor of an algorithm.
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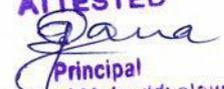
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<p style="text-align: center;">CC-10 For SEM IV</p>	<p style="text-align: center;">Microprocessor and its Applications</p>	<p style="text-align: center;">CO-11</p> <ul style="list-style-type: none"> • Understand the taxonomy of microprocessors and knowledge of contemporary microprocessors. • Describe the architecture, bus structure and memory organization of 8085 as well as higher order microprocessors. • Explore techniques for interfacing I/O devices to the microprocessor 8085 including several specific standard I/O devices such as 8251 and 8255. • Demonstrate programming using the various addressing modes and instruction set of 8085 microprocessor • Design structured, well commented , understandable assembly language programs to provide solutions to real world control problem.
<p style="text-align: center;">SEC-B-4-2 For SEM IV</p>	<p style="text-align: center;">E-Commerce</p>	<p style="text-align: center;">CO-12</p> <ul style="list-style-type: none"> • Analyze the impact of E-commerce on business models and strategy. Describe the major types of E-commerce. • Explain the process that should be followed in building an E-commerce presence. • Identify the key security threats in the E-commerce environment. • .Describe how procurement and supply chains relate to all types of e E-commerce.

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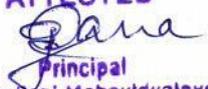
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<p style="text-align: center;">CC-11 For SEM V</p>	<p>Database Management system (DBMS):</p>	<p style="text-align: center;">CO-13</p> <ul style="list-style-type: none"> • Model Entity-Relationship diagrams for enterprise level databases • Formulate Queries using SQL and Relational Formal Query Languages • Apply different normal forms to design the Database Summarize concurrency control protocols and recovery algorithms • Identify suitable Indices and Hashing mechanisms for effective storage and retrieval of Data.
<p style="text-align: center;">CC-12 For SEM V</p>	<p>Object Oriented Programming (OOPs)</p>	<p style="text-align: center;">CO-14</p> <ul style="list-style-type: none"> • Students will understand the need of object oriented programming, fundamental concepts and will be able to solve computational problems using basic constructs like if-else, control structures, array, strings in Java environment. • Student will understand how to model the real world scenario using class diagram and be able to exhibit communication between objects using sequence diagram. • Students will be able to implement relationships between classes. • Students will be able to demonstrate various collection classes. • Students will be able to create and user interfaces and packages. • The students will be able to demonstrate programs on exceptions, multithreading and applets. • Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects. • Understand dynamic memory management techniques using pointers, constructors, destructors, etc <ul style="list-style-type: none"> • Describe the concept of function overloading, operator overloading, virtual functions and polymorphism

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<p>DSE-A-1 For SEM V</p>	<p>Digital Image Processing</p>	<p style="text-align: center;">CO-15</p> <ul style="list-style-type: none"> • Explains human visual perception. • .Explains how images are acquired. • Explains the basic relationships between pixels. • Applies transformations on images. • Explains histograms and changes histograms of images. • Realizes smoothing and sharpening in both spatial and frequency domains. Defines image processing methods. • Explains image segmentation. • Expresses image compression methods. • .Realizes image recognition process. • Recognizes morphological image processing techniques.
<p>DSE-B-2 For SEM V</p>	<p>Programing using Python</p>	<p style="text-align: center;">CO-16</p> <ul style="list-style-type: none"> • To know the concept of functions in Python • Be capable of using basic functions like "if" and different types of loops • Be able to convert data types • To know how to work with lists • To know the difference between running Python programs on Mac and Windows • Be able to work with CSV files • Be able to use tuples and data dictionaries • Be able to build lists of various • Be able to sort lists -Be able to edit records and load them from CSV files

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<p>CC-13 For SEM Vi</p>	<p>Software Engineering</p>	<p style="text-align: center;">CO-17</p> <ul style="list-style-type: none"> • How to apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment • An ability to work in one or more significant application domains • .Work as an individual and as part of a multidisciplinary team to develop and deliver quality software • Demonstrate an understanding of and apply current theories, models, and techniques that provide a basis for the software lifecycle • Demonstrate an ability to use the techniques and tools necessary for engineering practice.
<p>CC-14 For SEM Vi</p>	<p>Theory of Computation</p>	<p style="text-align: center;">CO-18</p> <ul style="list-style-type: none"> • able to design Finite Automata machines for given problems; • .able to analyze a given Finite Automata machine and find out its Language; • able to design Pushdown Automata machine for given CF language(s); • able to generate the strings/sentences of a given context-free languages using its grammar; • able to design Turing machines for given any computational problem.
<p>CC-14-P For SEM Vi</p>	<p>Project Work</p>	<p style="text-align: center;">CO-19</p> <ul style="list-style-type: none"> • Students should be able to design and construct a hardware and software system, component, or process to meet desired needs. • Students are provided to work on multidisciplinary Problems. • Students should be able to work as professionals, with portfolio ranging from data management, network configuration, designing hardware, database and software design to management and administration of entire systems.

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DSE-A-4 For SEM Vi	Multimedia and its Application	<p style="text-align: center;">CO-20</p> <ul style="list-style-type: none">• Explain audio-based multimedia products.• Explain visual-based multimedia products.• Explain animation-based multimedia products.• Explain steps of multimedia development.• Develop static and dynamic images, sounds and graphics.• Organize static and dynamic images, sounds and graphics.
DSE-B-3 For SEM Vi	Introduction to Computational Intelligence	<p style="text-align: center;">CO-21</p> <ul style="list-style-type: none">• Gain a working knowledge of knowledge-based systems neural networks, fuzzy systems, and evolutionary computation;• Apply intelligent systems technologies in a variety of engineering applications;• Implement typical computational intelligence algorithms in MATLAB;• Present ideas and findings effectively;• Think critically and learn independently Computational Intelligence Lab:

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CO-PO/PSO Attainment

PO attainment using CO(Direct Method)

CO PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3	
CO1	√			√						√		√			√		√		
CO2		√				√			√		√		√	√		√			
CO3		√	√		√		√		√	√	√		√			√			
CO4				√	√			√			√		√		√			√	
CO5	√			√				√		√		√		√		√	√		
CO6			√	√					√		√		√		√	√	√		
CO7	√	√		√		√		√			√		√	√		√	√		
CO8		√			√			√			√			√			√		
CO9																			
CO10	√			√			√		√			√			√				
CO11		√			√			√			√			√			√		
CO12																			
CO13			√			√			√			√			√				√
CO14		√			√			√		√		√	√			√			√
CO15																			
CO16					√			√			√	√			√				√
CO17																			
CO18	√			√			√		√			√			√				√
CO19			√			√		√	√			√			√				√
CO20	√			√			√	√			√			√	√				√
CO21		√			√	√		√			√			√	√	√			√

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Attainment of Course & Programme Outcomes

The target of the Computer Science Department is to implement the methodology of teaching learning process based on the syllabus of each course and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

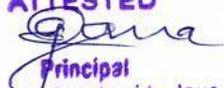
Direct methods are employed to assess students' knowledge and skills in their regular assessment protocols. Class test, internal assessment tests, end semester examinations, seminars, laboratory assignments, practical classes and projects based on curriculum.

Indirect methods such as Add-on /Certificate courses, Departmental seminars, Educational tours, Mathematical quiz contests, Poster presentation, Research projects etc. that enhance the students' knowledge, skill and self confidence which are essential for the progression of the students to higher studies and placements after completing graduation.

Also feedback given by each student reflects on students' views on Course and programme outcomes and their impact on learning and future applications.

Following tables show the various methods used in the assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on:

- a) Listing and description of the assessment processes used to gather the data, and
- b) The frequency with which these assessment processes are carried out.

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Sl. No.	Direct Assessment Method	Assessment frequency	Description
1	Entry level assessment Test	Once for newly admitted 1st Sem (year) students	It is a surprise test taken at the beginning of the study of UG syllabus to assess students' knowledge at the (+2) level of study.
2	Internal Assessment Test	Once in a semester on each course	Internal Assessment is taken on full syllabus after completion. It will be for 10 marks of each course..
4	End Semester Examination	Once in a semester	End Semester examinations (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student. End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July.
5	Practical Semester Examination	Once in a semester	End Semester practical examinations assess whether all the students have acquired the practical applications of the particular subject by hands-on training. Examinations are held along with the theoretical schedule,
6	Attendance	As per CU rules	Total 10 Marks is allotted for all CBCS courses: The marks obtained of every course from Class Attendance by the students is the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered 8 marks for attending 75% or above but less than 90% of the number of lectures delivered 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)

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1. Internal assessment dates and record of marks:

Internal Assessment

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2020-21						
ODD Semester						
23.02.2021	CMSA Sem - V	CC-11	Database Management system (DBMS):	10	BM	MCQ Online
24.02.2021	CMSA Sem - V	CC12	Object Oriented Programming (OOPs)	10	SB	MCQ Online
25.02.2021	CMSA Sem - V	DSE-A-1	Digital Image Processing	10	SSS	MCQ Online
26.02.2021	CMSA Sem - V	DSE-B-2	Programming using Python	10	SD	MCQ Online
23.02.2021	CMSA Sem - III	CC5	Computer Organization and Architecture	10	AS	MCQ Online
24.02.2021	CMSA Sem - III	CC6	Computational Mathematics	10	SD	MCQ Online
25.02.2021	CMSA Sem - III	CC-7	Operating Systems	10	SSS	MCQ Online
26.02.2021	CMSA Sem - III	SEC-A-3-1	Computer Graphics	10	SSS	MCQ Online
25.02.2021	CMSA Sem - I	CC1	Digital Logic	10	BS	MCQ Online
26.02.2021	CMSA Sem - I	CC2	Programming Fundamentals using C	10	SB	MCQ Online

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Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2020-21						
EVEN Semester						
19.07.2021	CMSA Sem - VI	CC-13	Software Engineering	10	BM	MCQ Online
19.07.2021	CMSA Sem - VI	CC-14	Theory of Computation	10	SSS	MCQ Online
19.07.2021	CMSA Sem - VI	DSE-A-4	Multimedia and its Application	10	DK	MCQ Online
19.07.2021	CMSA Sem - VI	DSE-B-3	Introduction to Computational Intelligence	10	SSS	MCQ Online
20.07.2021	CMSA Sem - IV	CC-8	Data communication, Networking and Internet technology	10	BM	MCQ Online
20.07.2021	CMSA Sem - IV	CC-9	Introduction to Algorithms & its Application.	10	SSS	MCQ Online
20.07.2021	CMSA Sem - IV	CC-10	Microprocessor and its Applications	10	AS	MCQ Online
20.07.2021	CMSA Sem - IV	SEC-B-4-2	E-Commerce	10	DK	MCQ Online
21.07.2021	CMSA Sem - II	CC-3	Data Structure	10	SB	MCQ Online
21.07.2021	CMSA Sem - II	CC-4	Basic Electronic Devices and Circuits	10	AS	MCQ Online

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1. Internal assessment dates and record of marks:

Internal Assessment

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2021-22						
ODD Semester						
03.01.2022	CMSA Sem - V	CC-11	Database Management system (DBMS):	10	BM	MCQ Online
03.01.2022	CMSA Sem - V	CC12	Object Oriented Programming (OOPs)	10	SB	MCQ Online
03.01.2022	CMSA Sem - V	DSE-A-1	Digital Image Processing	10	SSS	MCQ Online
03.01.2022	CMSA Sem - V	DSE-B-2	Programming using Python	10	SD	MCQ Online
04.01.2022	CMSA Sem - III	CC5	Computer Organization and Architecture	10	AS	MCQ Online
04.01.2022	CMSA Sem - III	CC6	Computational Mathematics	10	SD	MCQ Online
04.01.2022	CMSA Sem - III	CC-7	Operating Systems	10	SSS	MCQ Online
04.01.2022	CMSA Sem - III	SEC-A-3-1	Computer Graphics	10	SSS	MCQ Online
05.01.2022	CMSA Sem - I	CC1	Digital Logic	10	BS	MCQ Online
05.01.2022	CMSA Sem - I	CC2	Programming Fundamentals using C	10	SB	MCQ Online

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Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2021-22						
EVEN Semester						
15.06.2022	CMSA Sem - VI	CC-13	Software Engineering	10	BM	MCQ Online
15.06.2022	CMSA Sem - VI	CC-14	Theory of Computation	10	SSS	MCQ Online
15.06.2022	CMSA Sem - VI	DSE-A-4	Multimedia and its Application	10	DK	MCQ Online
15.06.2022	CMSA Sem - VI	DSE-B-3	Introduction to Computational Intelligence	10	SSS	MCQ Online
17.06.2022	CMSA Sem - IV	CC-8	Data communication, Networking and Internet technology	10	BM	MCQ Online
17.06.2022	CMSA Sem - IV	CC-9	Introduction to Algorithms & its Application.	10	SSS	MCQ Online
17.06.2022	CMSA Sem - IV	CC-10	Microprocessor and its Applications	10	AS	MCQ Online
17.06.2022	CMSA Sem - IV	SEC-B-4-2	E-Commerce	10	DK	MCQ Online
18.06.2022	CMSA Sem - II	CC-3	Data Structure	10	SB	MCQ Online
18.06.2022	CMSA Sem - II	CC-4	Basic Electronic Devices and Circuits	10	AS	MCQ Online

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1. Internal assessment dates and record of marks:

Internal Assessment

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2022-23						
ODD Semester						
14.12.2022	CMSA Sem - V	CC-11	Database Management system (DBMS):	10	BM	MCQ Online
14.12.2022	CMSA Sem - V	CC12	Object Oriented Programming (OOPs)	10	SB	MCQ Online
14.12.2022	CMSA Sem - V	DSE-A-1	Digital Image Processing	10	SSS	MCQ Online
14.12.2022	CMSA Sem - V	DSE-B-2	Programming using Python	10	SD	MCQ Online
15.12.2022	CMSA Sem - III	CC5	Computer Organization and Architecture	10	AS	MCQ Online
15.12.2022	CMSA Sem - III	CC6	Computational Mathematics	10	SD	MCQ Online
15.12.2022	CMSA Sem - III	CC-7	Operating Systems	10	SSS	MCQ Online
15.12.2022	CMSA Sem - III	SEC-A-3-1	Computer Graphics	10	SSS	MCQ Online
16.12.2022	CMSA Sem - I	CC1	Digital Logic	10	BS	MCQ Online
16.12.2022	CMSA Sem - I	CC2	Programming Fundamentals using C	10	SB	MCQ Online

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Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2022-23						
EVEN Semester						
30.05.2023	CMSA Sem - VI	CC-13	Software Engineering	10	BM	MCQ Online
30.05.2023	CMSA Sem - VI	CC-14	Theory of Computation	10	SSS	MCQ Online
30.05.2023	CMSA Sem - VI	DSE-A-4	Multimedia and its Application	10	DK	MCQ Online
30.05.2023	CMSA Sem - VI	DSE-B-3	Introduction to Computational Intelligence	10	SSS	MCQ Online
31.05.2023	CMSA Sem - IV	CC-8	Data communication, Networking and Internet technology	10	BM	MCQ Online
31.05.2023	CMSA Sem - IV	CC-9	Introduction to Algorithms & its Application.	10	SSS	MCQ Online
31.05.2023	CMSA Sem - IV	CC-10	Microprocessor and its Applications	10	AS	MCQ Online
31.05.2023	CMSA Sem - IV	SEC-B-4-2	E-Commerce	10	DK	MCQ Online
01.06.2023	CMSA Sem - II	CC-3	Data Structure	10	SB	MCQ Online
01.06.2023	CMSA Sem - II	CC-4	Basic Electronic Devices and Circuits	10	AS	MCQ Online

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2. Results of 2018,19,20,21,22

2018-21

Sl no	Name	Roll No	Reg. No.	CGPA
1	Tamonash Debbarman	183513-21-0144	114-1111-0752-17	6.6
2	Ankur Kumar Biswas	183513-21-0002	513-1214-0145-18	7.9
3	SUBHAJIT SARDAR	183513-21-0003	513-1212-0159-18	8.2
4	Pralay Naskar	183513-21-0013	513-1212-0161-18	8.9
5	Mrinmay Sardar	183513-21-0016	513-1212-0169-18	8.0
6	Rajkumar Das	183513-21-0018	513-1213-0179-18	7.7
7	Subhradip Mandal	183513-21-0035	513-1232-0170-18	6.6
8	Swarup Naskar	183513-21-0045	513-1212-0172-18	7.9
9	Ayan Dey	183513-21-0078	513-1211-0177-18	8.2
10	Srijandeep Ghosh	183513-21-0091	513-1214-0179-18	8.9
11	Priyanka Dey	183513-11-0046	513-1211-0834-18	8.0
12	Sreemoyee Ghosh	183513-11-0049	513-1211-0845-18	7.7
13	Tanurupa Maiti	183513-11-0056	513-1211-0878-18	7.8
14	Sudip Sardar.	183513-21-0111	513-1232-0188-18	8.0
15	Shubham karmokar	183513-21-0113	513-1212-0189-18	7.9
16	ARPAN MITRA	183513-21-0125	513-1216-0191-18	7.8
17	Siddhartha Mahapatra	183513-21-0223	513-1222-0479-18	8.0
18	Akash Barman	183513-21-0042	513-1212-0453-18	8.1

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2019-22

Sl no	Name	Roll No	Reg. No.	CGPA
1	Mehtab Islam	193513-21-0004	513-1115-0406-22	6.6
2	CHAYAN DAS	193513-21-0008	513-1212-0453-22	7.9
3	Riya Agian	193513-11-0047	513-1211-0382-22	7.9
4	Pralay Naskar	193513-21-0009	513-1112-0259-21	8.9
5	Vivek Kumar Gupta	193513-21-0011	223513-21-0010	8.0
6	Debdaipayan Chakroborty	193513-21-0015	513-1111-0425-20	7.7
7	Amlan Dutta	193513-21-0035	513-1214-0484-22	6.6
8	Sarmistha Marik	193513-21-0039	513-1111-0368-20	7.9
9	Dhiman Chakraborty	193513-21-0045	513-1111-0415-20	8.2
10	Rupchand Naiya	193513-21-0057	513-1111-0002-18	8.9
11	Debpyoti Mukherjee I	193513-21-0068	513-1211-0382-22	8.0
12	Sandipan Rath	193513-21-0077	513-1111-0278-22	7.7
13	Sukdeb Naskar	193513-21-0079	513-1112-0895-20	6.5
14	Chumki Dutta	193513-11-0049	513-1211-0432-22	8.0
15	Swarup Das	193513-21-0088	513-1111-0155-18	7.9
16	Spnadan Sarkar	193513-21-0098	513-1111-0316-22	7.8

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17	AYAN DEY	193513-21-0101	513-1211-0371-21	8.0
18	Priyanka Dey	193513-11-0107	513-1211-0461-21	8.1
19	Swarup Naskar	193513-21-0108	513-1112-0421-21	8.9
20	Shubham karmokar	193513-21-0118	513-1114-0483-21	8.6

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2020-23

Sl no	Name	Roll No	Reg. No.	CGPA
1	DEBDAIPAYAN CHAKROBORTY	203513-21-0050	513-1111-0425-20	8.8
2	Parthib Mitra	203513-21-0007	513-1111-0276-20	8.9
3	Arnab Mondal	203513-21-0149	513-1112-0886-20	6.8
4	Debargha Nandi	513-1114-0280-20	203513-21-0110	7.4
5	Pinaki Nandan Parya	203513-21-0043	513-1111-0401-20	6.9
6	Rupchand Naiya	203513-21-0048	513-1111-0415-20	7.9
7	Jayatri Mukherjee	203513-11-0021	513-1211-0360-20	8.1
8	Tasir Ahhamed Laskar	203513-21-0127	513-1115-0263-20	6.7
9	Dipanjan Giri	203513-21-0012	513-1111-0297-20	7.6
10	ANUPAM RANA	203513-21-0114	513-1114-0303-20	7.9

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11	Rahul Mondal	203513-21-0051	513-1111-0431-20	7.0
12	Sudip Naskar	203513-21-0107	513-1112-0452-20	6.8
13	Prajna Ghosh	203513-11-0073	513-1214-0379-20	8.2
14	Satyajit Mirdda	203513-21-0089	513-1112-0365-20	8.1
15	ROHAN MONDAL	203513-21-0101	513-1112-0416-20	6.7
16	Abhijit Sheet	203513-21-0099	513-1112-0402-20	7.6
17	203513-21-0077	513-1112-0278-20	Alapan Das	7.9
18	203513-21-0029	513-1111-0368-20	Dhiman Chakraborty	7.0
19	203513-21-0005	513-1111-0273-20	Subhayan Chatterjee	6.8
20	203513-21-0154	513-1113-0887-20	ASHISH MANDI	8.2
21	203513-21-0092	513-1112-0381-20	Arnab Mandal	8.1
22	203513-21-0074	513-1112-0266-20	SUPRAKASH PURKAIT	8.0
23	203513-21-0023	513-1111-0340-20	Rana Purkait	7.8

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INDIRECT METHOD

SURVEY IS CONDUCTED THROUGH QUESTIONNAIRE
FOR RATING AND RELATION OF POs AND PSOs

Questions Responses **29** Settings

Feed Back: Attainment of the Course

Current 3rd & 5th semester students and Pass out students of 2021, 2022 & 2023 are asked to give feedback on attainment of the course through the following form.

Email *

Valid email

This form is collecting emails. [Change settings](#)

Name of Student *

Short answer text

CU Registration Number *

Short answer text

Batch *

1. 2018-21
2. 2019-22
3. 2020-23

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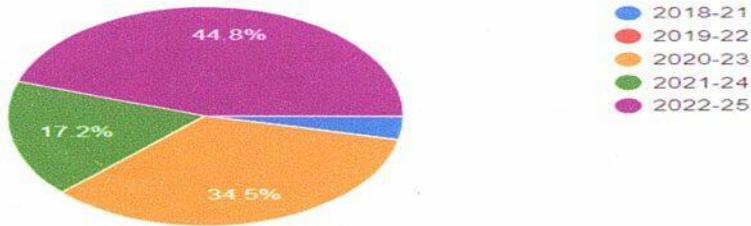
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Batch
29 responses

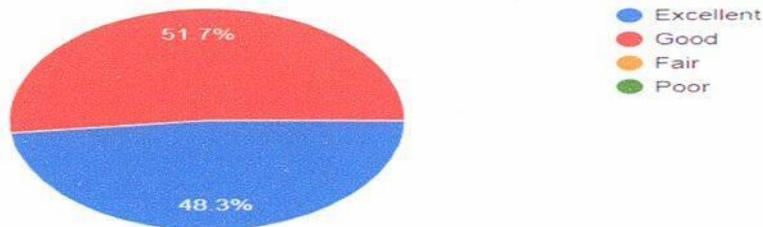
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1. Was the course helpful in developing your interest and liking for the subject?

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29 responses



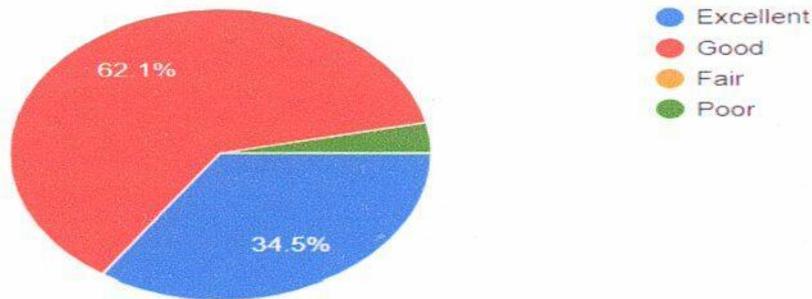
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2. Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.

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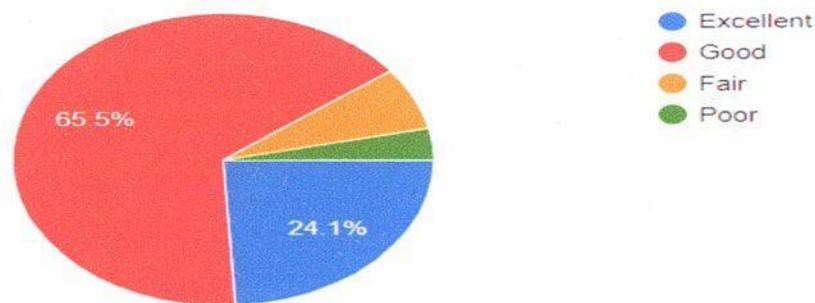
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3. Was the course or part of the course helpful in giving an interdisciplinary knowledge?

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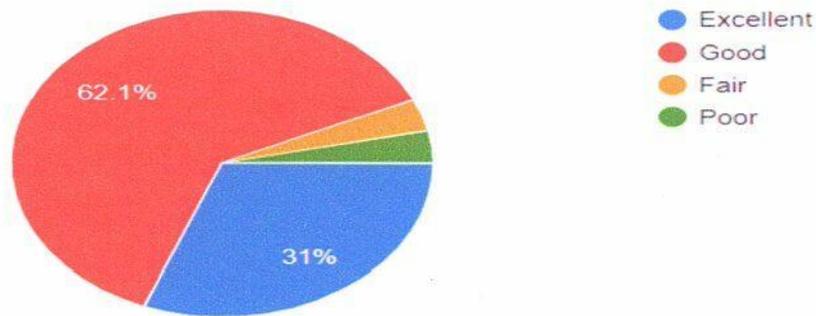
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4. Rate the practical part of the course as far as applicable for real world problems?

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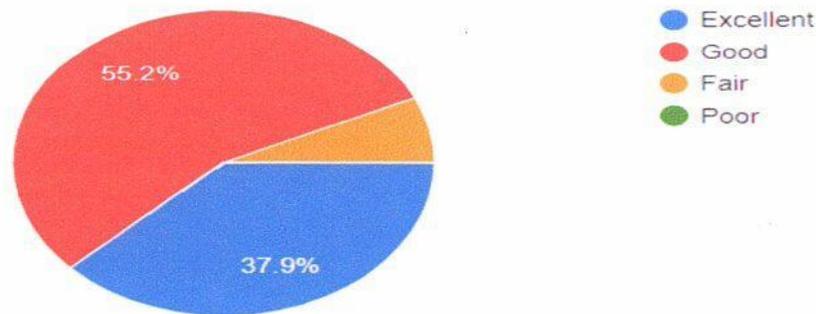
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5. How would you rate the course in terms of modern approaches and contemporary issues?

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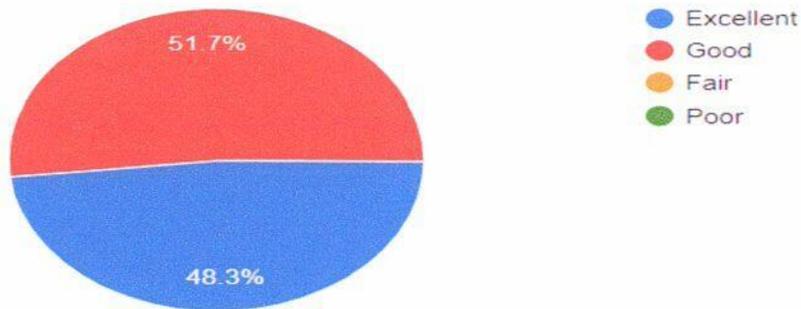
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6. How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?

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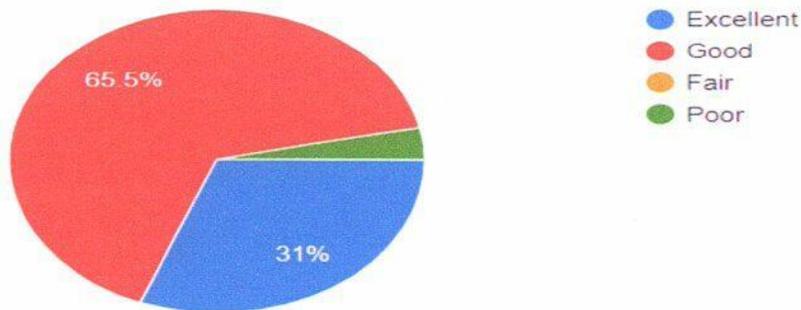
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7. Does the course designed according to current development of the subject of interest?

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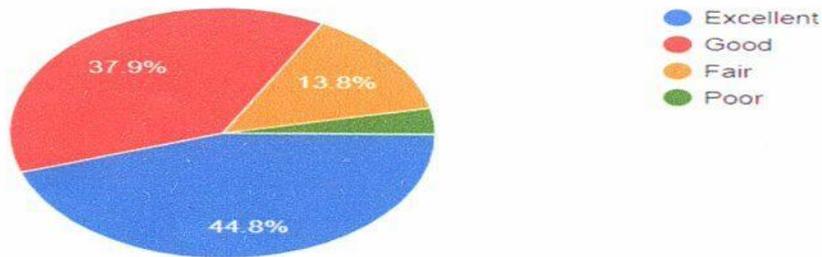


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8. Does the course or part of the course have contributions to industry and technology needed for job orientation?

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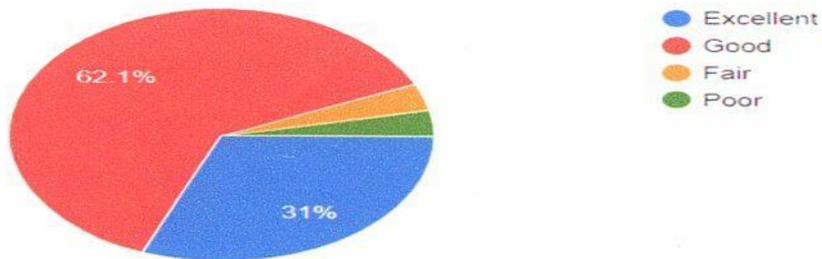
29 responses



9. How would you rate the course in developing interest of students towards higher studies and research?

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29 responses

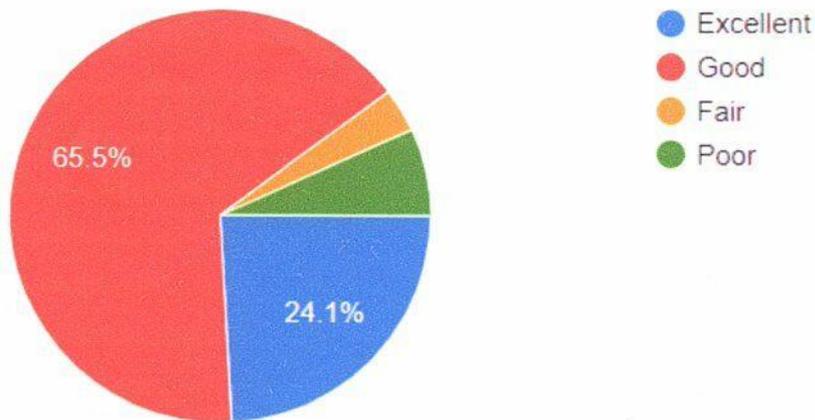


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10. How would you rate the course in terms of relevance in the present education structure both at the national and international level?



29 responses



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Program Specific Outcomes

For B.Sc. Under-Graduate Mathematics Honours and General course, 2018 (Duration 3 years) under CBCS system

PSO-1: Gain of Academic Knowledge

Extension of knowledge which the students have already acquired in +2 level in several areas of Mathematics such as classical algebra, abstract algebra, linear algebra, real and complex analysis, geometry and vectors, differential and integral calculus.

PSO-2: Development of Logical Sense

The syllabus is so designed that the students are to go through abstract mathematics. In this journey they have to logically prove several theorems, corollary etc. from hypothesis. So hypothetical and logical sense have been grown in the minds of the students so that they can prove any arbitrary theorem. Also mathematical logic is a part of the syllabus to develop the logical sense of the students.

PSO-3: Reasoning and Interactive Mind

Reasoning is very much required to understand and solve mathematical problems. Throughout the study of undergraduate programmes students practice reasoning to set up a reasonable mind to clear their doubts in mathematics by interaction.

PSO-4: Skill Development

In the study of the course there are some to train the students about computer software which enhances the technical and computer skills of the students, which are very essential to solve mathematical problems easily.

PSO-5: Interdisciplinary Sense

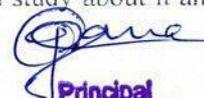
The course is so designed that there are some parts like Boolean algebra, logic gates, discrete mathematics, statistics which are common to related subjects like Physics, Computer Science, Chemistry, Statistics and Engineering. So the students will acquire interdisciplinary knowledge which can make a pathway to their future study in any branch of science technology.

PSO-6: Hands-on Training on Problem Solving

The practical part of the course aims that the students get hands-on training to solve various problems of numerical analysis and statistics using C language. After training, students are able to solve various problems by writing programmes.

PSO-7: Research Oriented Self-Directed Learning

In theoretical and practical parts of the course, the students have to prepare projects and practical note books in algebra, analysis, geometry, vectors, discrete mathematics, numerical analysis etc. To prepare these kinds of projects the students have to identify the topics or problems, then study about it and



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then formulate and solve it, which is self-directed and makes the students research oriented.

Course Outcomes

Core Course	Topic	Course Outcomes(CO)
Honours Papers		
CC-1	Calculus, Geometry & Vector Analysis	CO-1
For SEM 1	Unit – I: Calculus	The learners mainly gain the nature of curves in Cartesian or polar coordinates. Moreover, (a) there is a scope to obtain higher order derivatives and apply further wherever necessary. (b) the students learn reduction formula of integration and L Hospital's rule of limit to find hard integration and limit. (c) they obtain the knowledge of curve tracing and to obtain different curve characteristic terms like length of curve, curvature, envelope curve etc.
	Unit – II: Geometry	(d) students acquire the knowledge of the behaviour of plane, line and surface in space. (e) students obtain skill to classify conics in 2D and 3D Geometry.
	Unit – III: Vector Analysis	(f) get idea of vector product, vector function, limit, continuity, differentiation and integration. (g) obtain the ability to apply vector concept in different branch of applied mathematics. (h) they are able to solve various problems related to vector equations, application to geometry and mechanics of vector analysis, which has useful applications in various branches of Mathematics and Physics.

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<p>CC-4</p> <p>For SEM 2</p>	<p>Group Theory-I</p> <p>Unit – I: Basic theory of Group</p> <p>Unit – II: Cyclic Group</p> <p>Unit – III: Normal Sub Group and Homomorphism of groups.</p>	<p>CO-4</p> <p>This course is designed as a basic theory of Abstract Algebra. In this course students are go through</p> <ol style="list-style-type: none">1. the study of definition and examples of groups, subgroups & their properties which are the pivotal concepts of modern algebra.2. the next step of defining special types of groups i.e., cyclic groups and its properties3. the concept of permutations their types and algebra of permutations.4. the ideas of cosets, order of group & its elements, Lagrange's theorem & its consequences including Fermat's Little theorem.5. the study of Normal subgroups, Quotient group, Cayley's theorem, Homomorphism and Isomorphism of groups which are very essential to study unknown groups.
<p>CC-5</p> <p>For SEM 3</p>	<p>Theory of Real Functions</p> <p>Unit I: Limit and Continuity of functions</p> <p>Unit II: Differentiability of functions.</p>	<p>CO-5</p> <p>Limit and Continuity</p> <p>This course will help students to know about Very important notions of limit, continuity, uniform continuity of a real function with $\epsilon - \delta$ approach. Many important results including Sequential criterion will help students in due courses.</p> <p>Differentiability</p> <p>Differentiability of a real function at a point, relation between continuity and differentiability of a function and related theorems, Rolle's theorem, Cauchy's MVT to be specially mentioned with.</p> <p>The concept of maxima, minima of a function in an interval and their application. This portion plays important role in applied sciences, specially on ODE and Multivariate Calculus which is also in the UG course.</p> <p>This course is the base for any further studies of analysis and many other fields and also help them to grow analytical ideas in real field and make mathematical arguments within this system.</p>

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<p>CC-6</p> <p>For SEM 3</p>	<p>Ring Theory & Linear Algebra I</p> <p>Unit – I: Ring Theory.</p> <p>Unit – II: Linear Algebra</p>	<p>CO-6</p> <p>Ring Theory</p> <p>Ring is an ordered structure with two operators and it is a generalization of group theory which the students have already read in CC4 (semester 1). In this course the students</p> <ol style="list-style-type: none">1. Get to study ring as arbitrary set with two operators. Definition, examples, properties of subring, subfield, integral domains and field and their properties.2. Acquire knowledge about some well-known theorems such as isomorphism theorem, correspondence theorem.3. These ideas are very important to study advanced algebra, linear algebra in semester 5 of undergraduate course as well as for further study of any branch of mathematics. <p>Linear algebra</p> <p>The students already had preliminary ideas of vectors and its analysis in semester 1, but in this course they study its algebra. They</p> <ol style="list-style-type: none">1. Get knowledge about vector spaces and its algebra, subspaces of \mathbb{R}^n and its geometric significance which helps them to connect algebra with geometry.2. Get to know linear transformations, its algebra and representations, Eigen values, Eigen vectors, characteristic equations, Cayley-Hamilton theorem which gives a new method for finding the inverse of a matrix.
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<p>CC-7</p> <p>For SEM 3</p>	<p>Ordinary differential equation & Multivariate calculus I</p> <p>Unit – I Ordinary differential equation</p> <p>Unit – II Multivariate Calculus – I</p>	<p>CO-7</p> <p>On completion of this course, the students will acquire knowledge on</p> <ol style="list-style-type: none"> 1. acquire elementary knowledge and skill of solving problems on certain types of linear and non- linear ordinary differential equations, also acquire knowledge on certain types of second order ordinary differential equations and their applications in Applied Science. 2. solving various problems related to Power series solution, Biological & Mechanical model, vector calculus which has useful applications in various branches of Mathematics and Physics. 3. solving various problems related to multivariate calculus, which is a powerful tool for understanding the geometry of real n-dimensional space. 4. Obtain the knowledge on limit, continuity and differentiability of n-dimensional space curves and surfaces.
<p>CC-8</p> <p>For SEM IV</p>	<p>Riemann Integration & Series of functions</p> <p>Unit – I: Riemann Integration</p> <p>Unit – II: Improper Integral</p> <p>Unit – III: Series of functions</p>	<p>CO-8</p> <p>This course will help students to acquire knowledge about</p> <ol style="list-style-type: none"> 1. Riemann integration which is a generalisation of definite integration. Concept of negligible set, primitive, application of Lebesgue theorem and many important properties and theorems. 2. Improper integral and existence of their finite values and Beta Gamma functions with their application. 3. Sequence and series of functions, power series and their pointwise convergence, uniform convergence to limit function. <p>All these concepts are widely applied in integral and differential calculus, differential equations to physics problems.</p>
<p>CC-9</p> <p>For SEM IV</p>	<p>Partial Differential Equation & Multivariate Calculus-II</p> <p>Unit – I: Partial Differential Equation</p> <p>Unit – II: Multivariate Calculus-II</p>	<p>CO-9</p> <p>On completion of this course, the students will acquire</p> <ol style="list-style-type: none"> 1. elementary knowledge and skill for solving problems of certain types of linear and non-linear partial differential equations, also acquire knowledge on certain types of second order partial differential equations and their applications in Mathematical Physics. 2. Concept of Cauchy problem, Cauchy-Kowalewskaya theorem, Cauchy problem of finite & infinite string and their applications in Mathematical Physics. 3. elementary knowledge and skill of solving problems on multiple integral and centre of gravity, surface and volume of revolution. knowledge on vector calculus and their applications in Mathematical Physics.

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<p>CC-10</p> <p>For SEM IV</p>	<p>Mechanics</p> <p>Unit – I: Statics</p> <p>Unit – II: Particle Dynamics</p> <p>Unit – III: Many Particle System</p>	<p>CO-10</p> <p>On completion of this course, the students will acquire knowledge on</p> <p>(a) Reduction of forces in 2D and 3D system.</p> <p>(b) condition of stability and instability of a system by a system of forces</p> <p>(c) how the frictional force work with the interaction two bodies and also the stability in the environment of frictional force</p> <p>(d) virtual work and one can check the condition of stability using virtual work done.</p> <p>(e) rectilinear motion of a particle in straight line and in two and three dimension</p> <p>(f) orbital motion and its stability. It will help in research of artificial satellite.</p> <p>(g) work, power, energy and energy conservation maintain in different systems.</p> <p>(h) linear and angular momentum principal and energy conservation in many particle systems.</p> <p>(i) over all study help to research in particle physics.</p>
<p>CC-11</p> <p>For SEM V</p>	<p>Probability and Statistics.</p> <p>Unit I: Probability</p> <p>Unit II: Statistics.</p>	<p>CO-11</p> <p>This course will introduce students to</p> <ol style="list-style-type: none">1. the theory of probability, basic knowledge about one and two dimensional probability distribution, distribution function, conditional probability, expectation, some special distributions, generating functions etc. and problems related to all these topics.2. the statistical theory build up on the basis of probability theory and help students in solving problems on parameter estimation viz., point and interval estimation, level of significance, concept of hypothesis and their various applications based on real life data. <p>This course lay foundation to one of the most beautiful and practically oriented subject Statistics.</p>

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<p>CC-12</p> <p>For SEM V</p>	<p>Group theory II & Linear Algebra II</p> <p>Unit I: Group theory.</p> <p>Unit II: Linear Algebra</p>	<p>CO-12</p> <p>Group theory II</p> <p>The students who had preliminary ideas of definition and properties of groups, now in this course</p> <ol style="list-style-type: none">1. Acquire conceptual knowledge about automorphism group and its properties and applications of factor group to automorphism groups.2. Can extend their skills to study further about external and internal direct product of groups, the existence of some well-known theorems such as Cauchy theorem, converse of Lagrange's theorem and Fundamental theorem only on finite Abelian groups. <p>Linear Algebra II</p> <p>This course is an extension of Linear Algebra I in CC6. In this course the students go through the study of advanced linear algebra such as</p> <ol style="list-style-type: none">1. Inner product spaces, Gram-Schmidt process of orthogonalization and orthonormalization of vectors, Bessel's inequality, linear operators, linear bilinear quadratic form of vectors, Sylvester's law of inertia etc.2. Dual spaces, transpose of linear transformation and its matrix in the dual basis, annihilators, eigen spaces, diagonalizability, inverse and subspaces, Jordan and rational canonical form. <p>These concepts are very essentials for further studies as well as for competitive examinations.</p>
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<p>CC-13</p> <p>For SEM VI</p>	<p>Metric space & Complex analysis</p> <p>Unit I: Metric space.</p> <p>Unit II: Complex analysis</p>	<p>CO-13</p> <p>Metric space</p> <p>Metric space is a generalization of Real line. On completion of study of metric space, the students</p> <ol style="list-style-type: none">1. get the idea of abstraction of modulus distance function from real line to abstract field to form a metric space by axiomatic approach.2. acquire knowledge of extension of real analysis i.e., open set, interiors, closure, convergence of sequence, continuity, uniform continuity, various types of compactness, connectedness, contraction maps, etc. in arbitrary Meric space.3. know about Banach Fixed Point theorem which has an application for solving ordinary differential equations. <p>These ideas help the students to study arbitrary vector spaces and topological spaces.</p> <p>Complex analysis:</p> <p>In semester 2, the students already had ideas of real analysis and a set of complex numbers in a superset of real numbers. Here, in this course, students get to know about</p> <ol style="list-style-type: none">1. Well-known stereographic projection, complex plane, differential calculus and integral calculus of complex numbers2. Uniform and absolute convergence of power series, radius of convergence <p>Difference between real analysis and complex analysis.</p>
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<p>CC-14</p> <p>For SEM VI</p>	<p style="text-align: center;">Numerical Analysis</p> <p>Unit I: Rounding of real and machine numbers, Errors, Numerical algorithms</p> <p>Unit II: Approximations, Interpolations.</p> <p>Unit III: Numerical Differentiations.</p> <p>Unit IV: Solution of Transcendental and Polynomial equations</p> <p>Unit V: Solution of Ordinary Differential equations.</p>	<p style="text-align: center;">CO-14</p> <p>Nowadays, application of numerical analysis spreads in various areas in social sciences. Those problems are difficult to solve in an analytic method but it can be solved through a numerical method. But has a limitation that there may involve small errors that do not affect much. On completion of this course, the students will acquire knowledge on</p> <p>(a) numerical calculation, which gives most of the time some errors. Here is a scope to learn different types of errors that appear during calculation.</p> <p>(b) different interpolation, numerical differentiation and numerical integration rule.</p> <p>(c) finding roots of polynomial and transcendental equations in different methods. In general, we cannot find the roots of transcendental equations in an analytic method.</p> <p>(d) to find the solution of a system of linear equations in different numerical methods.</p> <p>(e) to find the eigen values of a real symmetric matrix.</p> <p>(f) solution of initial and boundary value problem.</p> <p>All the above said numerical methods are hugely used in solving different research problems in the real world. So it gained serious attention to the students of science background.</p>
<p>SEC-A</p> <p>For SEM III</p>	<p style="text-align: center;">C Programming Language</p>	<p style="text-align: center;">CO-15</p> <p>Computer programming is now very much essential for the study of different areas of social science. Software wholly depends on computer programming. On completion of this course, the students will acquire knowledge</p> <p>(a) on basic keywords, functions and data type used in C programming language</p> <p>(b) on condition, loop and structure that used to make computer program</p> <p>(c) on defining array, user defined function, pointer and creating a file through C.</p> <p>Thus students will learn a soft-skill in the area of computer science and can take entry to the software industry.</p>
<p>SEC-B</p> <p>For SEM IV</p>	<p style="text-align: center;">SageMath</p>	<p style="text-align: center;">CO-16</p> <p>On completion of this course, the students will acquire knowledge</p> <p>(a) on advance computing up to desired accuracy</p> <p>(b) on programming technique</p> <p>(c) on plotting different kinds of function that help to predict the behaviour of the function. This is an extra feature inbuilt in this software than other programming compilers.</p> <p>Thus study of SageMath helps students to move in research motivation.</p>

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<p>DSE-A1</p> <p>For SEM V</p>	<p>Advanced Algebra</p> <p>Unit – I: Group Theory</p> <p>Unit – II: Ring Theory</p>	<p>CO-17</p> <p>After successful completion of this particular course the students has extended their knowledge about</p> <ol style="list-style-type: none"> 1. Group action & permutation representation associated with a given group action, basic applications of group actions, Generalised Cayley's theorem and Index theorem 2. Generalised theory of Ring, basic idea of which they have already read in CC6. In this part of ring theory they also acquire knowledge about Principal Ideal Domain and Its properties Euclidean domain, Factorisation domain, Unique factorisation Domain & inter relations among them. 3. Polynomial ring as an example of Factorisation domain, Euclidean algorithm, Eisenstein criterion etc. 4. Regular rings, its examples & properties ideals etc. which are very much essential to study higher course of pure mathematics as well as in the research field.
<p>DSE-B1</p> <p>For SEM V</p>	<p>Linear Programming & Game Theory</p>	<p>CO-18</p> <p>On completion of this course, the students will acquire</p> <ol style="list-style-type: none"> 1. fundamental knowledge on the theory of basic and basic feasible solutions and their properties, convex sets based on the knowledge of linear algebra studied in previous semesters. 2. the skills on the solution of a Linear Programming Problem by Simplex Method. Also acquire knowledge on duality, transportation problem, assignment problem and travelling salesman problem. <p>This course is very much important in present day Mathematics, like in the field of Operation Research, Modelling, Financial Mathematics.</p>
<p>DSE-A2</p> <p>For SEM VI</p>	<p>Mathematical Modelling</p>	<p>CO-19</p> <p>On completion of this course, the students will acquire knowledge</p> <ol style="list-style-type: none"> 1. Concept of power series solution of Bessel's & Legendre's equation, Laplace transform and their application in Mathematical Physics.

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DSE-A2	Point Set Topology	CO-20
For SEM VI	<p>Unit – I: Topological spaces.</p> <p>Unit – II: Countability and Separation Axioms</p> <p>Unit – III: Compactness and Connectedness</p>	<p>Topology is an abstraction of real analysis and a generalization of metric spaces which the students have already read in 1st semester CC3 and 6th semester CC13 courses. In this course the students</p> <ol style="list-style-type: none"> 1. Realize that there are various extensions of real numbers in which the set of reals is a subset of them. 2. Understand the construction of real numbers is relatively unimportant to get a topology on it. 3. Get knowledge about axiomatic set theory which is one of the pivotal concept of set theoretic approach of topology. 4. Get ideas of the extension of topological open sets, closed sets limit points, neighbourhood, convergence, continuity etc. from the set of real numbers to arbitrary topological spaces and topological properties like compactness, connectedness, separation axioms etc., some of which hold in the set of real numbers but not all. 5. Acquire knowledge about \mathbb{R}^n (n copies of \mathbb{R}) as well as \mathbb{R}^w arbitrary product of \mathbb{R}. Not only that, but they also come to know about many well-known examples of topological space. 6. Get experience to construct topology in an arbitrary space and can solve problems which makes them able to study further branch of advanced theory of pure mathematics.
MATHEMATICS General Course(MTMG)		
SEM I CC1/ GE1	<p>Unit-1 : Algebra-I</p> <p>Unit-2 : Differential Calculus-I</p> <p>Unit-3 : Differential Equation-I</p> <p>Unit-4 : Coordinate Geometry</p>	CO-21
		<p>The knowledge of basic mathematical ideas of algebra, differential calculus and its applications, 1st and 2nd order differential equations and two and three dimensional geometry, which are generalizations of mathematics syllabus which students already studied at +2 level. These ideas will help them to develop mathematical practice to enter in the next level of study in GE2.</p>
SEM II CC2/ GE2	<p>Unit-1 : Differential Calculus-II</p> <p>Unit-2 : Differential Equation-II</p> <p>Unit-3 : Vector Algebra</p> <p>Unit-4 : Discrete Mathematics</p>	CO-22
		<p>The course of GE2 is so designed that students will be able to gain the knowledge about the next part of GE1, i.e., differential calculus II, differential equation II, vector algebra as a generalization of geometry and discrete mathematics which is very essential nowadays in application to computer science and modern algebra, graph theory as well as in our Everyday life while using Debit and Credit Cards, ISBN number for Books, Bar code for any product etc. .</p>

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<p>SEM III CC3/ GE3</p>	<p>Unit-1 : Integral Calculus</p> <p>Unit-2 : Numerical Methods</p> <p>Unit-3 : Linear Programming</p>	<p>CO-23 Integral Calculus From this course, students acquire knowledge of integral calculus and its application in geometry, numerical analysis and linear programming problems, each of which is very necessary for further study in any field of science as well as in the competitive examinations.</p> <p>Numerical Methods Nowadays, application of numerical analysis spreads in various areas in social sciences. Those problems are difficult to solve in an analytic method but it can be solved through a numerical method. On completion of this course, the students will acquire knowledge on</p> <p>(a) numerical calculation, which gives most of the time some errors. Here is a scope to learn different types of errors that appear during calculation.</p> <p>(b) different interpolation, numerical differentiation and numerical integration rule.</p> <p>(c) finding roots of polynomial and transcendental equations in different methods. In general, we cannot find the roots of transcendental equations in an analytic method.</p> <p>(d) to find the solution of a system of linear equations in different numerical methods.</p> <p>All the above said numerical methods are hugely used in solving different research problems in the real world. So it gained serious attention to the students of science Background.</p> <p>Linear Programming On completion of this course, the students will acquire</p> <ol style="list-style-type: none"> 1. fundamental knowledge on the theory of basic and basic feasible solutions and their properties, convex sets based on the knowledge of linear algebra studied in previous semesters. 2. the skills on the solution of a Linear Programming Problem by Simplex Method. Also acquire knowledge on duality, transportation problem, assignment problem and travelling salesman problem. <p>This course is very much important in present day Mathematics, like in the field of Operation Research, Modelling, Financial Mathematics.</p>
<p>SEM IV CC4/GE4</p>	<p>Unit-1 : Algebra-II Unit-2 : Computer Science & Programming Unit-3 : Probability & Statistics</p>	<p>CO-24 In this course students study modern algebra, computer science and methods of programming and also probability and statistics which play important roles in present day mathematics.</p>

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SEM V DSE – A (Any one)	Particle Dynamics	CO-25 Students acquire the knowledge of (a) rectilinear motion of a particle in straight line and in two and three dimension (b) orbital motion and its stability. It will help in research of artificial satellites. (c) work, power, energy and energy conservation are maintained in different systems. (d) linear and angular momentum principle and energy conservation in many particle systems.
	Graph Theory	CO-26 On Completion of This Course, the students will acquire knowledge of basic graph theory, paths, circuits, trees and their application in Mathematical algorithms. To find the shortest path using Dijkstra's algorithm, Floyd-Warshall algorithm.
SEM VI DSE B	Advanced Calculus	CO-27 This course is an extension of Real Analysis. Here students will study the concept of point-wise and Uniform convergence of sequence of functions and series of functions. They also learn periodic Fourier series and it's convergence, Laplace Transform, it's properties and application to the solution of ordinary Differential equations.
SEM VI SEC - B	Boolean Algebra	CO-28 Boolean algebra as a skill enhancement course is very helpful for students to develop skill about Boolean algebra as a distributive lattice, Boolean polynomials, Karnaugh diagram, switching circuits which plays a very crucial role in present day Mathematics and Computer science.

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Mapping of PSO and CO

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1	√		√		√		√
CO2	√	√	√		√		√
CO3	√	√	√		√		√
CO4	√	√	√		√		√
CO5	√	√	√		√		√
CO6	√	√	√		√		√
CO7	√		√		√		√
CO8	√	√	√				√
CO9	√		√		√		√
CO10	√		√		√		√
CO11	√		√	√	√		√
CO12	√		√		√		√
CO13	√	√	√		√		√
CO14	√	√	√	√	√		√
CO15	√	√	√	√	√	√	
CO16	√		√	√	√	√	
CO17	√	√	√				√
CO18	√		√	√	√		√
CO19	√		√	√	√		√
CO20	√	√	√				√

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Attainment of Course & Programme Outcomes

The target of the Mathematics Department is to implement the methodology of teaching learning process based on the syllabus of each course and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

Direct methods are employed to assess students' knowledge and skills in their regular assessment protocols. Class test, internal assessment tests, end semester examinations, seminars, laboratory assignments, practical classes and projects based on curriculum.

Indirect methods such as Add-on /Certificate courses, Departmental seminars, Educational tours, Mathematical quiz contests, Poster presentation, Research projects etc. that enhance the students' knowledge, skill and self confidence which are essential for the progression of the students to higher studies and placements after completing graduation.

Also feedback given by each student reflects on students' views on Course and programme outcomes and their impact on learning and future applications.

Following tables show the various methods used in the assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on: a) Listing and description of the assessment processes used to gather the data, and b) The frequency with which these assessment processes are carried out.

Sl. No.	Direct Assessment Method	Assessment frequency	Description
1	Entry level assessment Test	Once for newly admitted 1st Sem (year) students	It is a surprise test taken at the beginning of the study of UG syllabus to assess students' knowledge at the (+2) level of study.
2	Internal Assessment Test	Once in a semester on each course	Internal Assessment is taken on full syllabus after completion. It will be for 10 marks of each course..
3	Class Test	Frequently	It is a method used to continuously assess the student's understanding capabilities.
4	End Semester Examination	Once in a semester	End Semester examinations (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student. End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July.

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5	Practical Semester Examination	In 6th semester only	End Semester practical examinations assess whether all the students have acquired the practical applications of the particular subject by hands-on training. Examinations are held along with the theoretical schedule.
6	Tutorial Examination	Once in a semester on each course	15 % of the total marks is assigned to the tutorial exam in each course which is distributed in equal marks distribution in Project copy, project presentation and viva-voce. These are conducted to assess student's conception, communication and presentation skills along with depth of the subject knowledge.
7	Attendance	As per CU rules	Total 10 Marks is allotted for all CBCS courses: The marks obtained of every course from Class Attendance by the students is the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered 8 marks for attending 75% or above but less than 90% of the number of lectures delivered 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)

1. Internal assessment dates and record of marks:

Internal Assessment

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2020-21						
ODD Semester						
23.02.2021	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Online
24.02.2021	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Online

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25.02.2 021	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Online
26.02.2 021	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Online
26.02.2 021	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Online
23.02.2 021	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Online
24.02.2 021	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Online
25.02.2 021	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Online
26.02.2 021	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Online
26.02.2 021	MTMG Sem - III	CC/GE- 3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Online
26.02.2 021	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Online
25.02.2 021	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR,RH	MCQ Online
26.02.2 021	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Online
25.02.2 021	MTMG Sem - I	CC/GE- 1	Calculus, Geometry, Vector	10	SS,SD,M R,RH	MCQ Online
EVEN Semester						
19.07.2 021	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Online
19.07.2 021	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Online
19.07.2 021	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Online
19.07.2 021	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Online
19.07.2 021	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Online
20.07.2 021	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS, RH	MCQ Online
20.07.2 021	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH,MR	MCQ Online
20.07.2 021	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Online

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20.07.2 021	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Online
20.07.2 021	MTMG Sem - IV	CC/GE- 4	Algebra - II, Programming, Probability	10	MR,SS	MCQ Online
22.07.2 021	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,S S,RH	MCQ Online
23.07.2 021	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Online
23.07.2 021	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Online
Academic Session: 2021-22						
ODD Semester						
03.01.2 022	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Offline
03.01.2 022	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Offline
03.01.2 022	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Offline
03.01.2 022	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Offline
03.01.2 022	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Offline
03.01.2 022	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Offline
03.01.2 022	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Offline
03.01.2 022	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Offline
05.01.2 022	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
05.01.2 022	MTMG Sem - III	CC/GE- 3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Offline
06.01.2 022	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
19.02.2 022	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR,RH	MCQ Offline
19.02.2 022	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Offline
19.02.2 022	MTMG Sem - I	CC/GE- 1	Calculus, Geometry, Vector	10	SS,SD,M R,RH	MCQ Offline

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Even Semester						
15.06.2022	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Offline
15.06.2022	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Offline
15.06.2022	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Offline
15.06.2022	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Offline
15.06.2022	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH,MR	MCQ Offline
17.06.2022	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Offline
17.06.2022	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Offline
17.06.2022	MTMG Sem - IV	CC/GE-4	Algebra - II, Programming, Probability	10	MR,SS	MCQ Offline
17.06.2022	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,S S,RH	MCQ Offline
17.06.2022	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Offline
17.06.2022	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Offline
Academic Session: 2022-23						
ODD Semester						
14.12.2022	MTMA Sem - V	CC-11	Probability & Statistics	10	SS	MCQ Offline
14.12.2022	MTMA Sem - V	CC-12	Ring Theory & Linear Algebra-II	10	SD	MCQ Offline
14.12.2022	MTMA Sem - V	DSE - A	Advance Algebra	10	SD	MCQ Offline
14.12.2022	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	10	RH, MR	MCQ Offline
15.12.2022	MTMG Sem - V	DSE-A	Particle Dynamics	10	RH	MCQ Offline

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15.12.2 022	MTMA Sem - III	CC-5	Theory of Real Functions	10	SS, MR	MCQ Offline
15.12.2 022	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	10	SD	MCQ Offline
15.12.2 022	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	10	RH, MR	MCQ Offline
15.12.2 022	MTMA Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
15.12.2 022	MTMG Sem - III	CC/GE- 3	Integral Calculus, Numerical Analysis & LPP	10	RH, MR, SS	MCQ Offline
14.12.2 022	MTMG Sem - III	SEC-A	C Programming	10	MR	MCQ Offline
03.02.2 023	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	10	MR, RH	MCQ Offline
03.02.2 023	MTMA Sem - I	CC-2	Algebra	10	SS, SD	MCQ Offline
03.02.2 023	MTMG Sem - I	CC/GE- 1	Calculus, Geometry, Vector	10	SS, SD, M R, RH	MCQ Offline
Even Semester						
30.05.2 023	MTMA Sem - VI	CC-13	Metric Space & Complex Analysis	10	SD	MCQ Offline
30.05.2 023	MTMA Sem - VI	CC-14	Numerical Methods	10	MR	MCQ Offline
30.05.2 023	MTMA Sem - VI	DSE - A	Mathematical Modelling	10	MR, RH	MCQ Offline
30.05.2 023	MTMA Sem - VI	DSE - B	Point Set Topology	10	SD	MCQ Offline
30.05.2 023	MTMG Sem - VI	DSE - B	Advance Calculus	10	RH	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	10	SS	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	10	RH, MR	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-10	Mechanics	10	MR, RH	MCQ Offline
31.05.2 023	MTMA Sem - IV	SEC - B	SageMath	10	MR	MCQ Offline
31.05.2 023	MTMG Sem - IV	CC/GE- 4	Algebra - II, Programming, Probability	10	MR, SS	MCQ Offline

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23.06.2023	MTMG Sem - II	CC-2	DC, DE, VA & DM	10	SD,MR,S S,RH	MCQ Offline
23.06.2023	MTMA Sem - II	CC-3	Real Analysis	10	SS	MCQ Offline
23.06.2023	MTMA Sem - II	CC-4	Group Theory - II	10	SD	MCQ Offline

Tutorial Examination

Date of Internal Evaluation	Semester	Course	Topic	Full Marks (10)	Taken By	Pattern of Question (Online/Offline)
Academic Session: 2020-21						
ODD Semester						
23.02.2021	MTMA Sem - V	CC-1	Probability & Statistics	15	SS	Descriptive Online
24.02.2021	MTMA Sem - V	CC-1	Ring Theory & Linear Algebra-II	15	SD	Descriptive Online
25.02.2021	MTMA Sem - V	DSE - A	Advance Algebra	15	SD	Descriptive Online
26.02.2021	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	15	RH, MR	Descriptive Online
26.02.2021	MTMG Sem - V	DSE- A	Particle Dynamics	15	RH	Descriptive Online
23.02.2021	MTMA Sem - III	CC-5	Theory of Real Functions	15	SS, MR	Descriptive Online
24.02.2021	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	15	SD	Descriptive Online
25.02.2021	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	15	RH, MR	Descriptive Online
26.02.2021	MTMG Sem - III	CC/G E-3	Integral Calculus, Numerical Analysis & LPP	15	RH, MR, SS	Descriptive Online
25.02.2021	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	15	MR,RH	Descriptive Online
26.02.2021	MTMA Sem - I	CC-2	Algebra	15	SS, SD	Descriptive Online
25.02.2021	MTMG Sem - I	CC/G E-1	Calculus, Geometry, Vector	15	SS,SD,M R,RH	Descriptive Online
EVEN Semester						

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14.07.2 021	MTMA Sem - VI	CC-1 3	Metric Space & Complex Analysis	15	SD	Descriptive Online
14.07.2 021	MTMA Sem - VI	DSE - A	Mathematical Modelling	15	MR, RH	Descriptive Online
14.07.2 021	MTMA Sem - VI	DSE - B	Point Set Topology	15	SD	Descriptive Online
15.07.2 021	MTMG Sem - VI	DSE - B	Advance Caiculus	15	RH	Descriptive Online
14.07.2 021	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	15	SS, RH	Descriptive Online
14.07.2 021	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	15	RH,MR	Descriptive Online
14.07.2 021	MTMA Sem - IV	CC-1 0	Mechanics	15	MR, RH	Descriptive Online
15.07.2 021	MTMG Sem - IV	CC/G E-4	Algebra - II, Programming, Probability	15	MR,SS	Descriptive Online
15.07.2 021	MTMG Sem - II	CC-2	DC, DE, VA & DM	15	SD,MR,S S,RH	Descriptive Online
14.07.2 021	MTMA Sem - II	CC-3	Real Analysis	15	SS	Descriptive Online
14.07.2 021	MTMA Sem - II	CC-4	Group Theory - II	15	SD	Descriptive Online
Academic Session: 2021-22						
ODD Semester						
27.12.2 021	MTMA Sem - V	CC-1 1	Probability & Statistics	15	SS	Descriptive Online
27.12.2 021	MTMA Sem - V	CC-1 2	Ring Theory & Linear Algebra-II	15	SD	Descriptive Online
27.12.2 021	MTMA Sem - V	DSE - A	Advance Algebra	15	SD	Descriptive Online
27.12.2 021	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	15	RH, MR	Descriptive Online
28.12.2 021	MTMG Sem - V	DSE- A	Particle Dynamics	15	RH	Descriptive Online
27.12.2 021	MTMA Sem - III	CC-5	Theory of Real Functions	15	SS, MR	Descriptive Online
27.12.2 021	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	15	SD	Descriptive Online
27.12.2 021	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	15	RH, MR	Descriptive Online

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28.12.2 021	MTMG Sem - III	CC/G E-3	Integral Calculus, Numerical Analysis & LPP	15	RH, MR, SS	Descriptive Online
14.02.2 022	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	15	MR,RH	Descriptive Online
14.02.2 022	MTMA Sem - I	CC-2	Algebra	15	SS, SD	Descriptive Online
14.02.2 022	MTMG Sem - I	CC/G E-1	Calculus, Geometry, Vector	15	SS,SD,M R,RH	Descriptive Online
Even Semester						
16.06.2 022	MTMA Sem - VI	CC-1 3	Metric Space & Complex Analysis	15	SD	MCQ Online
16.06.2 022	MTMA Sem - VI	DSE - A	Mathematical Modelling	15	MR, RH	MCQ Online
16.06.2 022	MTMA Sem - VI	DSE - B	Point Set Topology	15	SD	MCQ Online
15.06.2 022	MTMG Sem - VI	DSE - B	Advance Calculus	15	RH	MCQ Online
22.06.2 022	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	15	SS	MCQ Online
22.06.2 022	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	15	RH,MR	MCQ Online
22.06.2 022	MTMA Sem - IV	CC-1 0	Mechanics	15	MR, RH	MCQ Online
17.06.2 022	MTMG Sem - IV	CC/G E-4	Algebra - II, Programming, Probability	15	MR,SS	MCQ Online
17.06.2 022	MTMG Sem - II	CC-2	DC, DE, VA & DM	15	SD,MR,S S,RH	MCQ Online
21.06.2 022	MTMA Sem - II	CC-3	Real Analysis	15	SS	MCQ Online
21.06.2 022	MTMA Sem - II	CC-4	Group Theory - II	15	SD	MCQ Online
Academic Session: 2022-23						
ODD Semester						
14.12.2 022	MTMA Sem - V	CC-1 1	Probability & Statistics	15	SS	MCQ Offline
14.12.2 022	MTMA Sem - V	CC-1 2	Ring Theory & Linear Algebra-II	15	SD	MCQ Offline
14.12.2 022	MTMA Sem - V	DSE - A	Advance Algebra	15	SD	MCQ Offline
14.12.2 022	MTMA Sem - V	DSE - B	Linear Programming & Game Theory	15	RH, MR	MCQ Offline

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14.12.2 022	MTMG Sem - V	DSE- A	Particle Dynamics	15	RH	MCQ Offline
15.12.2 022	MTMA Sem - III	CC-5	Theory of Real Functions	15	SS, MR	MCQ Offline
15.12.2 023	MTMA Sem - III	CC-6	Ring Theory & Linear Algebra-I	15	SD	MCQ Offline
15.12.2 024	MTMA Sem - III	CC-7	ODE & Multivariate Calculus	15	RH, MR	MCQ Offline
16.12.2 022	MTMG Sem - III	CC/G E-3	Integral Calculus, Numerical Analysis & LPP	15	RH, MR, SS	MCQ Offline
16.01.2 023	MTMA Sem - I	CC-1	Calculus, Geometry & Vector Analysis	15	MR, RH	MCQ Offline
16.01.2 024	MTMA Sem - I	CC-2	Algebra	15	SS, SD	MCQ Offline
16.01.2 023	MTMG Sem - I	CC/G E-1	Calculus, Geometry, Vector	15	SS, SD, M R, RH	MCQ Offline
Even Semester						
30.05.2 023	MTMA Sem - VI	CC-1 3	Metric Space & Complex Analysis	15	SD	MCQ Offline
30.05.2 024	MTMA Sem - VI	DSE - A	Mathematical Modelling	15	MR, RH	MCQ Offline
30.05.2 025	MTMA Sem - VI	DSE - B	Point Set Topology	15	SD	MCQ Offline
30.05.2 026	MTMG Sem - VI	DSE - B	Advance Calculus	15	RH	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-8	Riemann Integration & Series of Function	15	SS	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-9	PDE & Multivariate Calculus - II	15	RH, MR	MCQ Offline
31.05.2 023	MTMA Sem - IV	CC-1 0	Mechanics	15	MR, RH	MCQ Offline
31.05.2 024	MTMG Sem - IV	CC/G E-4	Algebra - II, Programming, Probability	15	MR, SS	MCQ Offline
23.06.2 023	MTMG Sem - II	CC-2	DC, DE, VA & DM	15	SD, MR, S S, RH	MCQ Offline
23.06.2 023	MTMA Sem - II	CC-3	Real Analysis	15	SS	MCQ Offline
23.06.2 024	MTMA Sem - II	CC-4	Group Theory - II	15	SD	MCQ Offline

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2. Results of 2018,19,20,21,22

2018-21

Sl. No.	Name	Roll No	Reg. No.	CGPA
1	MEHABUB LASKAR	183114-21-0144	114-1111-0752-17	8.191
2	Payel Paul	183513-11-0046	513-1211-0618-18	7.738
3	Jaya Mondal	183513-11-0048	513-1212-0128-18	7.705
4	Pinki Baidya	183513-11-0049	513-1212-0139-18	7.732
5	ANUPAMA MANDAL	183513-11-0051	513-1214-0075-18	#VALUE!
6	SUSMITA NANDY	183513-11-0052	513-1214-0129-18	8.645
7	SUMANA CHOWDHURY	183513-11-0053	513-1214-0677-18	7.429
8	Sourav Jana	183513-21-0089	513-1111-0025-18	6.856
9	Susovan Samanta	183513-21-0090	513-1111-0067-18	6.673
10	Ramesh Bhandari	183513-21-0091	513-1111-0090-18	7.765

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11	Nandan Payra	183513-21-0092	513-1111-0116-18	6.317
12	Somnath pradhan	183513-21-0093	513-1111-0118-18	6.131
13	Bappa Pradhan	183513-21-0095	513-1111-0126-18	6.316
14	Subhankar prasad	183513-21-0096	513-1111-0672-18	6.248
15	Suman Mondal	183513-21-0100	513-1112-0107-18	7.468
16	Dibakar Mondal	183513-21-0101	513-1112-0119-18	7.262
17	Pabitra Naskar	183513-21-0102	513-1112-0120-18	#VALUE!
18	Soumyadip Bargi	183513-21-0103	513-1112-0130-18	6.516
19	Sukdeb Naskar	183513-21-0105	513-1112-0138-18	8.174
20	Avik Naskar	183513-21-0106	513-1112-0145-18	#VALUE!
21	Dhiman Nayban	183513-21-0107	513-1112-0146-18	#VALUE!
22	Ranjit Mandal	183513-21-0109	513-1112-0154-18	7.402

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23	BODHISATTWA HALDER	183513-21-0110	513-1112-0670-18	6.594
24	Dipankar Mandal	183513-21-0111	513-1112-0673-18	7.795
25	SUMAN MONDAL	183513-21-0112	513-1112-0681-18	7.756
26	Pabitra Maity	183513-21-0113	513-1112-0687-18	7.823
27	Abutaher Mistry	183513-21-0114	513-1114-0079-18	8.331
28	Rahul Pramanik	183513-21-0115	513-1114-0093-18	7.484
29	Pritam Das	183513-21-0116	513-1114-0133-18	8.154
30	Sourav Adak	183513-21-0117	513-1114-0674-18	6.86
31	Kousik Samanta	183513-21-0176	513-1111-0653-17	6.227
32	Krishnendu Mondal	183513-21-0177	513-1112-0182-17	6.2

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2019-22

Sl. No.	Name	Roll No	Reg. No.	CGPA
1	Aparna Saha	193513-11-0046	513-1211-0263-19	8.235
2	Susmita Halder	193513-11-0049	513-1212-0350-19	8.336
3	Piuli Mondal	193513-11-0050	513-1212-0360-19	8.021
4	Riya Sardar	193513-11-0051	513-1212-0380-19	8.305
5	Tanima Paul	193513-11-0053	513-1214-0313-19	8.109
6	Sraboni Baidya	193513-11-0055	513-1214-0438-19	8.131
7	Surya Bhattacharya	193513-21-0066	513-1111-0273-19	7.875
8	Koustav Naskar	193513-21-0067	513-1111-0278-19	7.783
9	Shubhajit Das	193513-21-0068	513-1111-0299-19	7.498
10	Nilashis De	193513-21-0069	513-1111-0326-19	8.238

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11	SK Sundar Ali	193513-21-0070	513-1111-0338-19	7.504
12	Dipu Mondal	193513-21-0072	513-1111-0344-19	8.147
13	Biswanath Mondal	193513-21-0074	513-1111-0354-19	8.032
14	Kushal Raj Mondal	193513-21-0075	513-1111-0359-19	7.748
15	Akash Das	193513-21-0076	513-1111-0365-19	8.043
16	Suman Ahmed	193513-21-0077	513-1111-0374-19	8.144
17	Buddhadeb jana	193513-21-0078	513-1111-0387-19	7.612
18	Debprasad maji	193513-21-0079	513-1111-0391-19	7.869
19	Kamal Krishna Das	193513-21-0081	513-1111-0412-19	8.034
20	Bikram Mondal	193513-21-0082	513-1112-0297-19	7.807
21	Pritam Das	193513-21-0083	513-1112-0298-19	#VALUE!
22	Tridib Naskar	193513-21-0086	513-1112-0421-19	8.142

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23	Ayan Paul	193513-21-0087	513-1114-0275-19	8.719
24	Saptarshi Nayek	193513-21-0089	513-1145-0314-19	7.576
25	Subhankar Maiti	193513-21-0126	513-1111-0777-19	7.884

2020-23

Sl. No.	Name	Roll No	Reg. No.	CGPA
1	Arpita Samanta	203513-11-0003	513-1211-0282-20	#VALUE!
2	Sushama Das	203513-11-0010	513-1211-0310-20	#VALUE!
3	Sabana Khatun	203513-11-0078	513-1215-0429-20	#VALUE!
4	Payel Pradhan	203513-11-0080	513-1211-0858-20	#VALUE!
5	Sudipa Jana	203513-11-0082	513-1214-0851-20	#VALUE!
6	Akashdeep Bera	203513-21-0018	513-1111-0320-20	7.696
7	Saikat Maiti	203513-21-0014	513-1111-0305-20	#VALUE!
8	Subham Jana	203513-21-0019	513-1111-0321-20	#VALUE!
9	Subhrajyoti Manna	203513-21-0020	513-1111-0323-20	7.666
10	Ankit Mukherjee	203513-21-0027	513-1111-0357-20	7.681
11	Soumyadip Karmakar	203513-21-0030	513-1111-0370-20	7.193
12	Prabal Banerjee	203513-21-0042	513-1111-0400-20	#VALUE!
13	Ayan Halder	203513-21-0052	513-1111-0434-20	7.302
14	Subhadip Adhikary	203513-21-0056	513-1111-0440-20	#VALUE!
15	AYAN BERA	203513-21-0066	513-1111-0465-20	#VALUE!
16	Ayan Jana	203513-21-0072	513-1112-0261-20	#VALUE!
17	ARPAN MONDAL	203513-21-0075	513-1112-0267-20	#VALUE!
18	Tanmoy Gayen	203513-21-0085	513-1112-0343-20	7.111

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19	Subham Mondal	203513-21-0117	513-1114-0322-20	7.933
20	Kinkar Gayen	203513-21-0123	513-1114-0419-20	7.299
21	Aritra Pradhan	203513-21-0138	513-1111-0854-20	7.596
22	Mrinmoy Nath	203513-21-0139	513-1111-0855-20	7.656
23	Mallar Bhattacharya	203513-21-0140	513-1111-0856-20	7.938
24	JAYANTA SIKARI	203513-21-0142	513-1112-0850-20	6.818
25	PRANTIK HALDAR	203513-21-0143	513-1112-0852-20	7.279

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INDIRECT METHOD

SURVEY IS CONDUCTED THROUGH QUESTIONNAIRE

FOR RATING AND RELATION OF POs AND PSOs

Questions Responses **29** Settings

Feed Back: Attainment of the Course

Current 3rd & 5th semester students and Pass out students of 2021, 2022 & 2023 are asked to give feedback on attainment of the course through the following form.

Email *

Valid email

This form is collecting emails. [Change settings](#)

Name of Student *

Short answer text

CU Registration Number *

Short answer text

Batch *

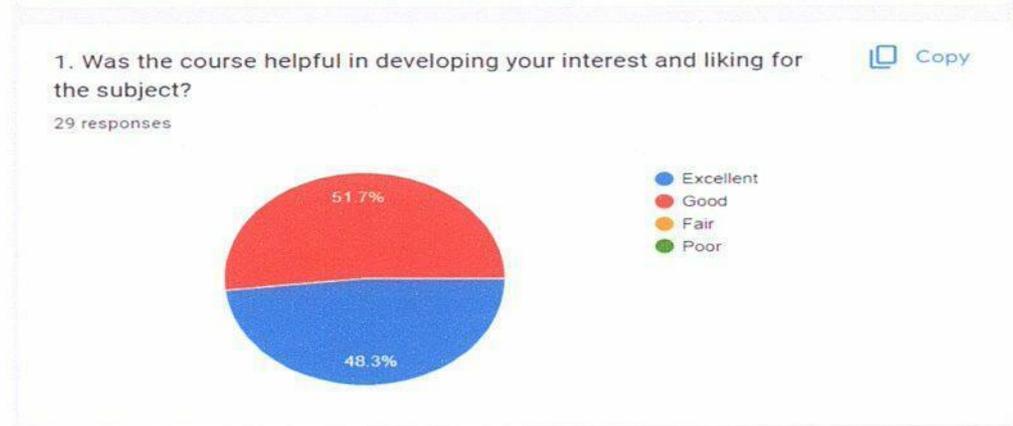
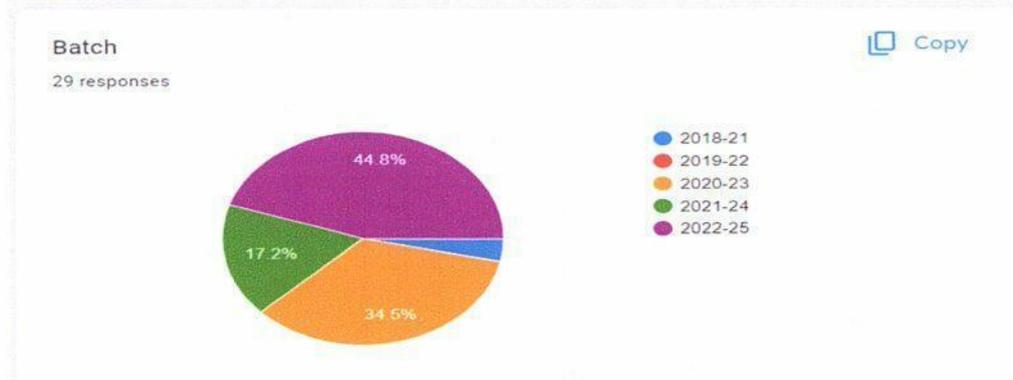
1. 2018-21

2. 2019-22

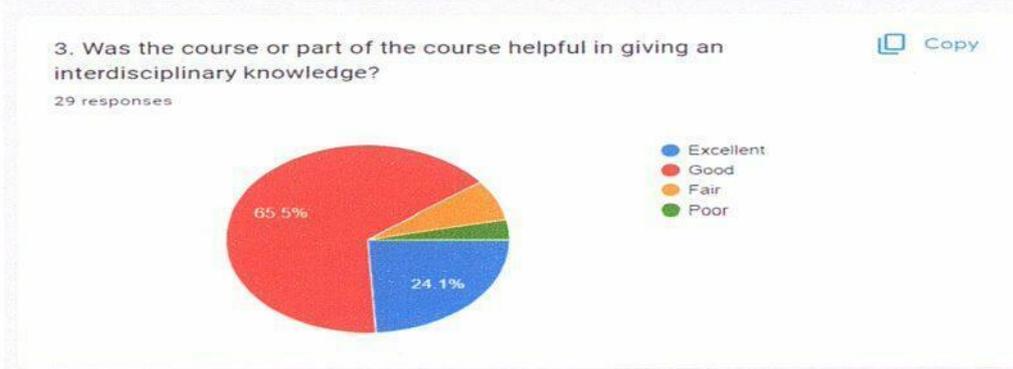
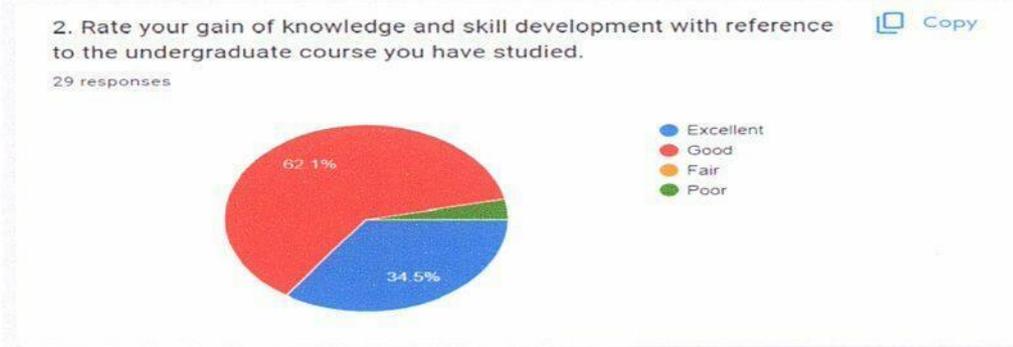
3. 2020-23

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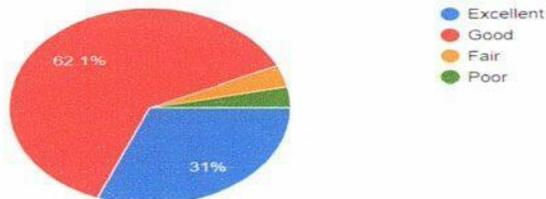
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4. Rate the practical part of the course as far as applicable for real world problems?

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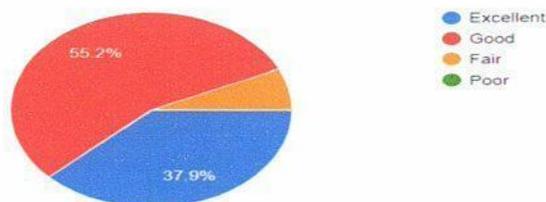
29 responses



5. How would you rate the course in terms of modern approaches and contemporary issues?

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29 responses



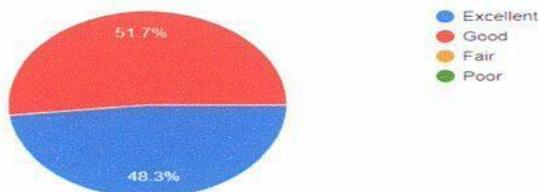
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6. How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?

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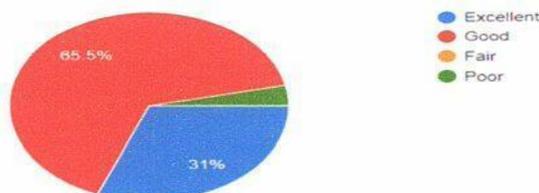
29 responses



7. Does the course designed according to current development of the subject of interest?

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29 responses



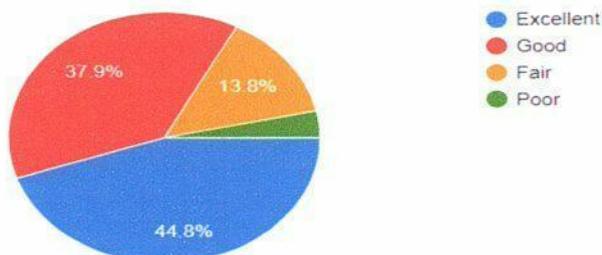
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8. Does the course or part of the course have contributions to industry and technology needed for job orientation?

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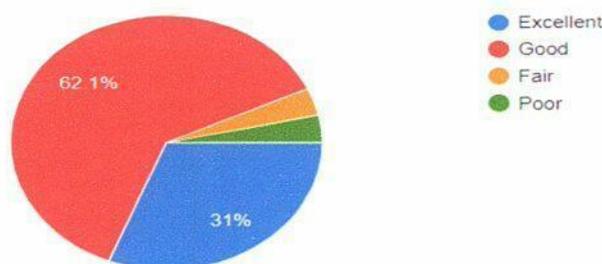
29 responses



9. How would you rate the course in developing interest of students towards higher studies and research?

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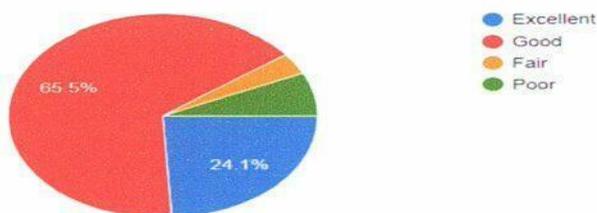
29 responses



10. How would you rate the course in terms of relevance in the present education structure both at the national and international level?

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29 responses



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Sl. No.	Questions	Total Weighted Sum	Total Response	Weighted Average
1	Was the course helpful in developing your interest and liking for the subject?	130	29	4.48
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	124	29	4.28
3	Was the course or part of the course helpful in giving an interdisciplinary knowledge?	119	29	4.1
4	Rate the practical part of the course as far as applicable for real world problems?	122	29	4.21
5	How would you rate the course in terms of modern approaches and contemporary issues?	125	29	4.31
6	How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?	130	29	4.48
7	Does the course designed according to current development of the subject of interest?	123	29	4.24
8	Does the course or part of the course have contributions to industry and technology needed for job orientation?	123	29	4.24
9	How would you rate the course in developing interest of students towards higher studies and research?	122	29	4.21
10	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	118	29	4.07
Overall Average=				4.26

By Indirect Method, the target level of POs & PSOs for attainment has been reached successfully.

DEPARTMENT OF MICROBIOLOGY

PROGRAMME SPECIFIC AND COURSE OUTCOME OF MICROBIOLOGY HONOURS AND UNDER CBCS

Programme Outcome (PO):

PO1: Students of the B.Sc. (Honours) Microbiology programme will learn to use scientific knowledge with logic and reasoning as they explore a wide range of contemporary subjects of basic microbiology such as Bacteriology, Virology, Biochemistry, Microbial Physiology, Immunology, Cell Biology, Molecular Biology, Genetics, Systems Biology, Immunology and Molecular biology as well as the applied aspects of microbiology such as Industrial Microbiology, Food and Dairy Microbiology, Environmental Microbiology, Medical Microbiology and Microbial Biotechnology.

PO2: Students will gain knowledge of various biotechnological applications of microorganisms and industrially important substances produced by microorganisms. They will learn the unique role of microbes in genetic engineering techniques which can be used for benefit of mankind.

PO3: The course will help them to understand the microbes. The students will also learn about basic molecular biology, Biochemistry and physiology, Virology and plant pathology to understand the functioning of the microorganisms

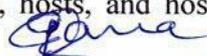
PO4: Students will acquire and demonstrate proficiency in good laboratory practices in a microbiological laboratory and be able to explain the theoretical basis and practical skills of the tools/technologies commonly used to study this field.

PO5: The course will make the students familiar with scientific methodology, Instrumentation and Bio techniques, design and execution of experiments. Students will develop the ability to think critically and to read and analyse scientific literature.

PO6: Graduates of the B.Sc. (Honours) Microbiology programme will be informed citizens who can understand and evaluate the impact of new research discoveries in the life sciences, and will be able to pursue a wide range of careers, including biological and medical research in higher education institutions as well as careers in public and global health, scientific writing, environmental organizations, and food, pharmaceuticals and biotechnology industries.

Programme Specific Outcome (PSO):

- **PSO1:** Extensive knowledge of classical Microbiology and contemporary subjects spanning various aspects of basic microbiology such as Bacteriology, Diversity of Microorganisms and their taxonomic position, Virology, Biochemistry, Microbial Physiology, Immunology, Cell Biology, Molecular Biology, Genetics, Systems Biology, Immunology and Molecular biology.
- **PSO2:** The course aims to train the students to learn and appreciate the biological diversity of microbial forms so that they can explore and explain the processes used by microorganisms for their replication, survival, and interaction with their environment, hosts, and host populations.


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They will become aware of the important role microorganisms played in maintenance of a clean and healthy environment. They will learn the role of microorganisms in plant, animal and human health and disease.

- **PSO3:**The course also aims to expose the students to various biotechnological applications of microorganisms, the industrially important substances produced by microorganisms and the unique role of microbes in genetic modification technologies. There is also focus on concepts of bioenergetics and basic study of macromolecules.
- **PSO4:**The course emphasizes the role of microbes in human, food and dairy technology, agriculture, process of heritable information in microorganisms and forming new genetic combinations through recombinant DNA. The course also covers the applied aspects of Microbiology such as Industrial Microbiology, Food and Dairy Microbiology, Environmental Microbiology and Medical Microbiology.
- **PSO5:** The practical aspects of the programme aim to make the students familiar with scientific methodology and execution of experiments. Students will develop the ability to think critically and to read and analyse scientific literature. Students will acquire and demonstrate proficiency in good laboratory practices in a microbiological laboratory and be able to explain the theoretical basis and practical skills of the tools/technologies commonly used to study this field
- **PSO6:**There is immense scope of hands on training of microbiological laboratory through extensive practical classes and learning of microbes handling skill and exposure to extensive knowledge of molecular biological techniques used in research works.

Course Outcome (CO):

Semester	CourseTopic	CourseOutcome (CO)
I	CC-1: Introduction to Microbiology and Microbial Diversity	CO1 <ul style="list-style-type: none"> • To understand the history of development of Microbiology starting from the early years • To study the diversity of Microbial World and Systems of classification of microorganisms • To understand the scope of microbiology
	CC-2: Bacteriology	CO2 <ul style="list-style-type: none"> • To understand bacteriology including the morphology, metabolism and nutrition patterns of various bacteria, their systematics and taxonomic positions. • To study the important archaeal and eubacterial groups in order to understand the basic microorganisms

II	CC-3: Biochemistry	CO3 <ul style="list-style-type: none"> To understand the basic concepts of Bioenergetics and thermodynamics To study and understand the macromolecules To study the different types of macromolecules, their structure, function and role in metabolism in living organisms To apply the basic knowledge for studying the metabolism of microorganisms
	CC-4: Cell Biology	CO4 <ul style="list-style-type: none"> To study the organization of cells To understand the detailed structure of all cell organelles To understand the process of cell signaling and sorting of proteins To understand the process of cell cycle, cell death and renewal
III	CC-5: Virology	CO5 <ul style="list-style-type: none"> To study the Nature and Properties of Viruses and Bacteriophages To Study Viral Transmission, Salient features of viral nucleic acids and Replication To understand the role of viruses in cancer and different viral diseases To study the importance and application of virology
	C-6: Microbial Physiology and Metabolism	CO6 <ul style="list-style-type: none"> To study Effect of Environment on Microbial growth and related Nutrient uptake and Transport To Study Chemoheterotrophic, Chemolithotrophic and Phototrophic Metabolism To study the role of Nitrogen Metabolism in Microbial Physiology
	CC-7: Molecular Biology	CO7 <ul style="list-style-type: none"> To Study Structures of DNA and RNA / Genetic Material To study Replication of DNA in Prokaryotes and Eukaryotes To study Transcription and Post Transcriptional modifications in Prokaryotes and Eukaryotes To study Transcription of DNA and

		Regulation of gene Expression in Prokaryotes and Eukaryotes
	SEC-A A1. Microbial Quality Control in Food and Pharmaceutical Industries	CSECA1 <ul style="list-style-type: none"> To learn the microbiological laboratory and safe practices To determine microbes in food and pharmaceutical samples Learning the importance of pathogenic organisms in food and water Learning the principles of food safety and microbial standards of different foods and water
IV	CC-8: Microbial Genetics	CO8 <ul style="list-style-type: none"> Learning of Genome Organization and Mutagenesis and Molecular basis of mutations Learning the Mechanisms of Genetic Exchange Conjugation, Transformation, Transduction To study Phage Genetics and Plasmids To study Transposable elements and Uses of transposons and transposition
	CC-9: Environmental Microbiology	CO9 <ul style="list-style-type: none"> Students develop an understanding about Micro organisms and their Habitats Structure and function of ecosystems in of plant organic matter Learning of Microbial Interactions, Microbe-Plant interaction and Microbe-animal interaction They develop an understanding of Biogeochemical Cycling, Waste Management and Microbial Bioremediation
	CC-10: Recombinant DNA Technology	CO10 <ul style="list-style-type: none"> To learn Milestones in genetic engineering and biotechnology and Applications of Recombinant DNA Technology They develop an understanding of Tools and Strategies of Molecular Cloning Learning of Methods in Molecular Cloning Learning of DNA Amplification and DNA sequencing Learning of Construction and Screening of Genomic and cDNA libraries

	SEC-B B2. Microbiological Analysis of Air and Water	CSECB2 <ul style="list-style-type: none"> To learn about Aero Microbiology, sample collection, analysis and control measures To learn Water Microbiology, analysis, treatment and control measures
V	CC-11: Food and Dairy Microbiology	CO11 <ul style="list-style-type: none"> Student develop an understanding of the concept of Foods as a substrate for microorganisms and Intrinsic and extrinsic factors that affect growth and survival of microbes in foods Learning of Microbial spoilage of various foods and different Principles and methods of food preservation To study the Food borne diseases and Food sanitation and control Understanding Fermented foods, Probiotics and their Health benefits Knowledge on Cultural and rapid detection methods of food borne pathogens in foods and introduction to predictive microbiology
	CC-12: Industrial Microbiology	CO12 <ul style="list-style-type: none"> To learn the Isolation of industrially important microbial strains and fermentation media Learning of Types of fermentation processes, bio-reactors and measurement of fermentation parameters Knowledge on Down-stream processing and Enzyme immobilization To learn Microbial production of industrial products (micro-organisms involved, media, fermentation conditions, downstream processing and uses)
	DSE-A A1. Microbial Biotechnology	CDSEA1 <ul style="list-style-type: none"> To learn microbial, industrial and therapeutic biotechnology with its application To learn the purification and recovery of microbial products To learn about the application of microbes in biotransformation, bioenergy and environment Learning about RNAi and IPR


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	DSE-B B1. Inheritance Biology	<ul style="list-style-type: none"> • CDSEB1 • To understand the historical development in genetics • To learn about the Mendelian principles, linkage and crossing over • To learn the structural organization of Chromosomes, extra chromosomal inheritance and recombination • Learning human and quantitative genetics
VI	CC-13: Immunology	<ul style="list-style-type: none"> • CO13 • To understand Concept of Innate and Adaptive immunity and Contributions of scientists to the development of field of immunology • To study the Immune Cells and Organs, Antigens and Antibodies and Immunological Disorders and Tumor Immunity • Learning of the role of the Major Histocompatibility Complex and Complement System in Immunology • Learning of Immunological Techniques for the benefit of mankind
	CC-14: Medical Microbiology	<ul style="list-style-type: none"> • CO14 • To study the Normal microflora of the human body and host pathogen interaction • Learning of diseases of various organ systems caused by Bacterial, Viral, Fungal and Protozoan infections • Gaining knowledge on Collection, transport and culturing of clinical samples and principles of different diagnostic tests • To learn the Antimicrobial agents their General characteristics and mode of action
	DSE-A A3. Plant Pathology	<ul style="list-style-type: none"> • CDSEA3 • To understand the history of plant pathology. • Learning about the overall stages of development of a plant disease, its epidemiology, about the host pathogen interaction, mechanism and the control measures • To learn about some specific plant diseases giving emphasis on its etiological agent, symptoms, dissemination, life cycle and preventive measures
	DSE-B B3. Instrumentation and Biotechniques	<ul style="list-style-type: none"> • CDSEB3 • To understand different techniques of instrumentation giving emphasis on microscopy, chromatography, electrophoresis, spectrophotometry and centrifugation

MAPPING OF CO, PO, PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	✓		✓		✓	✓	✓	✓			✓	✓
CO2	✓	✓		✓	✓	✓	✓				✓	✓
CO3	✓	✓			✓	✓	✓		✓		✓	✓
CO4	✓		✓		✓	✓	✓	✓			✓	✓
CO5	✓				✓	✓	✓	✓		✓	✓	✓
CO6	✓				✓	✓	✓				✓	✓
CO7	✓				✓	✓	✓	✓		✓	✓	✓
CO8	✓				✓	✓	✓		✓	✓	✓	✓
CO9	✓				✓	✓	✓	✓		✓	✓	✓
CO10		✓			✓	✓		✓	✓	✓	✓	✓
CO11	✓				✓	✓	✓	✓		✓	✓	✓
CO12	✓				✓	✓	✓		✓	✓	✓	✓
CO13	✓				✓	✓	✓		✓	✓	✓	✓
CO14	✓				✓	✓	✓		✓		✓	✓
CSECA1					✓	✓	✓			✓		
CSECB2					✓	✓			✓	✓		
CDSEA1	✓				✓	✓			✓	✓	✓	✓
CDSEA3			✓		✓	✓			✓		✓	✓
CDSEB1	✓				✓	✓		✓	✓	✓	✓	✓
CDSEB3				✓	✓	✓					✓	✓


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Attainment of Course & Programme Outcomes

The Institution aims to impart education based on the courses and programs framed by the affiliating University. For attainment of Course and Programme outcomes the institution adopts several methods of assessing the students. The methods fall under two categories: Direct and Indirect.

Direct methods are employed to assess students' knowledge and skills in their regular assessment protocols. Class test, internal assessment tests, end semester examinations, seminars, laboratory assignments, practical classes and projects based on curriculum.

Indirect methods such as course exit survey reflect on students' views on Course and programme outcomes and their impact on learning and future applications. Another indirect way to evaluate the learning outcome of the students is to keep a record of the progression of the students to higher studies and placements after completing graduation.

Following tables show the various methods used in assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on: a) Listing and description of the assessment processes used to gather the data, and b) The frequency with which these assessment processes are carried out.

ATTAINMENT THROUGH DIRECT METHODS

Sl. No	Direct Assessment Method	Assessment frequency	Description
1	Internal Assessment Test	Once in a semester	Internal Assessment is held for 20% of the total marks of each paper/subject/module i.e. 20 marks for a paper of 100 marks. 50% of the total marks i.e. 10 marks is assigned to Internal Assessment is assessed on the basis of Internal Examination and remaining 50% i.e. 10 marks is assessed based on the class attendance.
2	Class Test	As per requirement	It is a method used to continuously assess the student's understanding capabilities.
3	End Semester Examination	Once in a semester	End Semester examination (theory or practical) are centrally held by the University to assess the learning ability and theoretical knowledge of the student.


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			End Semester Examinations are held ordinarily at the end of the concerned Semester, i.e., Semester-I, Semester-III, Semester-V in December-January and Semester-II, Semester-IV, Semester-VI in June-July.
4	Practical Semester Examination	Once in a semester	End Semester practical examinations assess whether all the students have acquired the practical applications of the particular subject by hands on tests. Examinations are held along with the theoretical schedule,
5	Presentations	As per requirement	Presentations are conducted to assess student's communication and presentation skills along with depth of the subject knowledge un the form of seminars, debates or group discussions.
6	Attendance	As per CU rules	Total 10 Marks is allotted for all CBCS courses: The marks obtained in every course from Class Attendance by the students has the following manner. 6 marks for attending 60% or above but less than 75% of the number of lectures delivered, 8 marks for attending 75% or above but less than 90% of the number of lectures delivered, 10 marks for attending 90% or above of lectures delivered, and such attendance are calculated from the date of commencement of classes or date of admission whichever is later)


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1. Internal assessment dates and record of marks:

Academic Session 2022-23

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
30.1.23	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	OFFLINE
31.1.23		CC2	Bacteriology	20	Pamela Dutta Roy	OFFLINE
22.6.23	2	CC3	Biochemistry	20	Pamela Dutta Roy	OFFLINE
21.6.23		CC4	Cell biology	20	Aryoma Chakraborty	OFFLINE
15.12.21	3	CC5	Virology	20	Madhuwrita Saha	OFFLINE
16.12.21		CC6	Microbial Metabolism	20	Pamela Dutta Roy	OFFLINE
14.12.22		CC7	Molecular biology	20	Sharmila Chakraborty	OFFLINE
14.12.22		SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	OFFLINE
1.6.23	4	CC8	Microbial genetics	20	Sharmila Chakraborty	OFFLINE
1.6.23		CC9	Environmental Microbiology	20	Aryoma Chakraborty	OFFLINE
2.6.23		CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	OFFLINE
2.6.23		SEC B2	Air Water Analysis	20	Madhuwrita Saha	OFFLINE
15.12.22	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	OFFLINE
16.12.22		CC12	Industrial Microbiology	20	Madhuwrita Saha	OFFLINE
14.12.22		DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	OFFLINE
9.12.22		DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	OFFLINE
30.5.23	6	CC13	Immunology	20	Pamela Dutta Roy	OFFLINE
1.6.23		CC14	Medical Microbiology	20	Aryoma Chakraborty	OFFLINE
1.6.23		DSEA3	Plant Pathology	20	Madhuwrita Saha	OFFLINE
30.5.23		DSEB3	Instrumentation	20	Sharmila Chakraborty	OFFLINE


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Academic Session 2021-22

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
11.2.22	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	OFFLINE
18.2.22		CC2	Bacteriology	20	Pamela Dutta Roy	OFFLINE
23.6.22	2	CC3	Biochemistry	20	Pamela Dutta Roy	OFFLINE
20.6.22		CC4	Cell biology	20	Aryoma Chakraborty	OFFLINE
3.1.22	3	CC5	Virology	20	Madhuwrita Saha	OFFLINE
5.1.22		CC6	Microbial Metabolism	20	Pamela Dutta Roy	OFFLINE
5.1.22		CC7	Molecular biology	20	Sharmila Chakraborty	OFFLINE
3.1.22		SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	OFFLINE
21.6.22	4	CC8	Microbial genetics	20	Sharmila Chakraborty	OFFLINE
20.6.22		CC9	Environmental Microbiology	20	Aryoma Chakraborty	OFFLINE
23.6.22		CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	OFFLINE
22.6.22		SEC B2	Air Water Analysis	20	Madhuwrita Saha	OFFLINE
3.1.22	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	OFFLINE
3.1.22		CC12	Industrial Microbiology	20	Madhuwrita Saha	OFFLINE
5.1.22		DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	OFFLINE
5.1.22		DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	OFFLINE
10.6.22	6	CC13	Immunology	20	Pamela Dutta Roy	OFFLINE
16.6.22		CC14	Medical Microbiology	20	Aryoma Chakraborty	OFFLINE
16.6.22		DSEA3	Plant Pathology	20	Madhuwrita Saha	OFFLINE
10.6.22		DSEB3	Instrumentation	20	Sharmila Chakraborty	OFFLINE


Pamela
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Academic Session 2020-21

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
22.2.21	1	CC1	Microbiology and microbial diversity	20	Sharmila Chakraborty	ONLINE
24.2.21		CC2	Bacteriology	20	Pamela Dutta Roy	ONLINE
6.7.21	2	CC3	Biochemistry	20	Pamela Dutta Roy	ONLINE
13.7.21		CC4	Cell biology	20	Aryoma Chakraborty	ONLINE
22.2.21	3	CC5	Virology	20	Madhuwrita Saha	ONLINE
24.2.21		CC6	Microbial Metabolism	20	Pamela Dutta Roy	ONLINE
26.2.21		CC7	Molecular biology	20	Sharmila Chakraborty	ONLINE
1.3.21		SEC A1	Food and Pharamaceuticals	20	Aryoma Chakraborty	ONLINE
8.7.21	4	CC8	Microbial genetics	20	Sharmila Chakraborty	ONLINE
13.7.21		CC9	Environmental Microbiology	20	Aryoma Chakraborty	ONLINE
16.7.21		CC10	Recombinant DNA Technology	20	Sharmila Chakraborty	ONLINE
14.7.21		SEC B2	Air Water Analysis	20	Madhuwrita Saha	ONLINE
22.2.21	5	CC11	Food and dairy Microbiology	20	Aryoma Chakraborty	ONLINE
24.2.21		CC12	Industrial Microbiology	20	Madhuwrita Saha	ONLINE
26.2.21		DSEA1	Microbial biotechnology	20	Pamela Dutta Roy	ONLINE
1.3.21		DSEB1	Inheritance microbiology	20	Sharmila Chakraborty	ONLINE
8.7.21	6	CC13	Immunology	20	Pamela Dutta Roy	ONLINE
14.7.21		CC14	Medical Microbiology	20	Aryoma Chakraborty	ONLINE
19.7.21		DSEA3	Plant Pathology	20	Madhuwrita Saha	ONLINE
20.7.21		DSEB3	Instrumentation	20	Sharmila Chakraborty	ONLINE


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2. Final Results

Part III Result 2019 (1+1+1system)

NAME	ROLL NO.	REGN NO.	RESULT	STATUS
ANKITA ROY TALUKDER	3513-51-0029	513-1221-1144- 16	532	I
ROHITA DEY	3513-51-0028	513-1221-0776- 16	433	II
NOIRANJANA DASGUPTA	3513-51-0026	513-1221-0201- 16	456	II
DISHA ROY	3513-51-0030	513-1222-0173- 16	456	II
DIYA GHOSH	3513-51-0027	513-1221-0760- 16	421	II
TANNISTHA BISWAS	3513-51-0024	513-1221-0196- 16	525	I
IPSITA BISWAS	3513-51-0031	513-1222-0169- 16	389	II
BIDISHA DAS	3513-51-0025	513-1221-0199- 16	472	II
TIMIR BARAN MANNA	3513-61-0054	513-1124-0208- 16	423	II
SWARNADIP CHAKRABORTY	3513-61-0053	513-1121-0841- 16	497	I

Part III Result 2020 (1+1+1system)

NAME	ROLL NO.	RESULT	STATUS
SMRITI GHOSH	3513-51-0028	621	I
ANKITA ADAK	3513-51-0029	491	I
URMI NATH	3513-51-0030	543	I
SURANJANA BHATTACHARYA	3513-51-0031	554	I
DEBJANI GAYEN	3513-51-0032	422	II
SOUVIK MAITY	3513-61-0051	466	II
SAGAR ROY CHOWDHURY	3513-61-0052	540	I
MAINAK PATRA	3513-61-0053	487	I


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SOUVIK DAS	3513-61-0054	455	II
PREETHU HALDER	3513-61-0055	503	I
SUBHADIP SINGH	3513-61-0056	485	I
PRATIK CNANDRA PAL	3513-61-0057	475	II
BIPLOB KAYAL	3513-61-0058	448	II
RIHK PAUL	3513-61-0059	432	II
SAHINUL HOQUE SARDAR	3513-61-0060	499	I

Result 2021(CBCS SYSTEM)

NAME	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	CGPA
NISHA BHATT	6.299	7.455	6.949	8.171	8.850	8.966	7.827
SAMARJIT KR. MANDAL	5.728	6.650	6.266	7.836	8.200	7.979	7.161
MUKULIKA ROY	5.990	7.142	6.675	8.465	8.841	9.126	7.768
RIDDHI CHATTERJEE	7.077	7.250	6.501	7.829	8.799	8.658	7.701
SHRADHYA SAHA	7.083	7.799	7.051	8.693	9.154	9.150	8.188
SK. NAZIM ALI		5.949	5.877	7.465	8.357	8.294	
ARNAB KAPRI	5.671	6.067	5.365	7.528	8.123	7.026	6.668
TIRTHANKAR ROY	5.646	6.592	6.439	7.689	8.297	8.186	7.198
RITTICK DUTTA	6.089	7.479	6.883	8.151	8.592	8.506	7.764
RESHMI HAZRA	6.105	6.683	6.364	7.868	8.441	8.536	7.380
PRIYANKA GHOSH	6.849	7.455	6.603	7.886	8.632	8.765	7.717
KOUSHIK BERA	5.245	6.169	5.948	6.872	7.972	7.806	6.716
SAHANA BANU KHATUN		7.039	6.154	8.025	8.606	8.767	7.453
ARNAB KUMAR	4.354	6.265	7.026	7.199	8.268	7.990	6.946


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SAMANTA							
CHANDAN JANA	5.168		5.895	6.709	7.420	7.332	6.469
SOHINDRI DUTTA	5.490	7.225	6.898	7.940	8.511	8.668	7.517
RIMA JANA	7.456	7.526	7.330	8.571	9.257	9.226	8.362
SAYAK DOLAI	6.971	7.225	6.845	8.396	8.728	9.079	7.911
EKTA GANGULY	5.751	6.144	6.637	7.604	8.812	8.681	7.34
ANJALI TERESA	6.218	6.705	5.846	7.576	8.417	8.433	7.227
TALAHA NISHAT AHMED	6.788	6.889	6.224	7.980	8.419	8.781	7.450
SOMYADEEP DUTTA				6.187			
ANISH GAZI		5.560	5.019	7.284	8.280	8.042	

Result 2022 (CBCS SYSTEM)

NAME	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	CGPA
ANAMIKA NASKAR	5.809	7.892	8.412	8.510	8.493	7.942	7.917
AYENDRILA DUTTA	6.585	8.508	8.257	8.600	8.363	8.395	8.160
DOLA GOL	6.011	7.415	7.241		8.322		
FAISAL HUSSAIN	5.331	8.081	8.109	8.588	8.283	6.822	7.606
MOUSUMI DAS	6.563		7.941	8.297	8.341	8.097	
NIMISHA MAJUMDAR	7.789	9.040	9.432	9.586	9.218	9.135	9.082
PRAVAT KUMAR NASKAR	5.251	7.732	7.650	7.914	8.526	6.529	7.326
PRITI DAS	5.178	8.009	8.135	8.484	8.571	7.218	7.677
PURNENDU CHAKRABORTY	7.021	8.781	8.620	8.774	8.712	7.173	8.21
RUPSA SARDAR	6.505	7.932	8.308	8.502	8.601	7.250	7.902
SAAYAN CHAKRABORTY	6.044	8.164	8.558	8.628	8.457	7.046	7.879


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SHREYA CHATTERJEE	6.756	8.519	8.329	8.648	8.499	8.131	8.185
SOUMASHIS MONDAL	6.434	7.822	7.796	8.009	8.464	6.653	7.568
SWATTIK BISWAS	5.763	7.8	8.111	8.487	8.282	8.663	7.9
TAMOGHNA DEY	7.051	8.675	9.066	9.050	8.718	7.958	8.470
TAMOSA MONDAL	6.640	8.328	8.604	8.540	8.583	8.316	8.219

Result 2023 (CBCS SYSTEM)

NAME	SEM I	SEM II	SEM III	SEM IV	SEM V	SEM VI	CGPA
TUHIN SUBHRA GHOSH	8.729	8.741	8.958	8.274	8.163	8.004	8.484
SABIR ALI MOLLA	8.145	8.257	8.363	7.089		7.553	
SOHAM BURMAN	7.932	7.968	8.427	6.795	7.129	7.439	7.596
SOURISH CHAKRABORTY	7.992	8.161	8.219	7.259	7.121	7.595	7.706
NILESH JANA	8.33	8.42	8.48	7.54	7.54	7.564	7.968
ACHINTYA KARMAKAR	7.9	7.8	7.7	7.14	6.8	7.558	7.455
AKASH HALDER	8.247	8.382	8.286	7.188	7.498	7.468	7.815
BIDISHA KAR	7.96	8.2	8.0	7.25	7.34	6.628	7.554
SONALI MAJUMDER	7.73	8.25	8.43	6.69	6.28	6.245	7.243
AKANKHA MONDAL	7.642	8.014	8.248	6.960		6.238	
SANA BISWAS	8.240	8.603	8.68	6.75	6.60	6.640	7.543
ANWESHA GUHA ROY	8.294	8.407	8.684	7.926		7.897	
JISSANI DAS	8.959	8.860	9.101	8.488	8.513	8.264	8.688
ANKITA PANDA	8.372	8.57	8.552	7.3	7.12	6.731	7.739
DIYA PAL	8.637	8.794	8.831	7.105	6.042	6.308	7.629


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3. Progression to higher education

STUDENT PROGRESSION

Batch of 2021 (Year of passing)

	Name	Progression after B.Sc
1	Rima Jana	M.Sc in Vellor Institute of Technology
2	Reshmi Hazra	M.Sc. Ramakrishna Mission ,Narendrapur
3	Nisha Bhatt	M.ScSt.Xaviers' University
4	Sayak Dolai	M.sc in vijoygarh Jyotish Roy College
5	Samarjit Kr Mondal	M.Sc in Biochemistry,C.U
6	Mukulika Roy	M. Sc in Biotechnology.
7	Riddhi Chatterjee	M.Sc. Ramakrishna Mission ,Narendrapur
8	ShradhyaSaha	Master's in Applied Microbiology from KIIT University (Kalinga Institute of Industrial Technology),
9	Tirthankar Roy	MSc in microbiology from St. Xavier's College Kolkata and worked as a research intern in JBNSTS kolkata
10	Rittick Dutta	M.Sc biotechnology
11	Sahana Banu Khatun	M.Sc Microbiology Lady Brabourne College
12	Sohindri Dutta	M.Sc Food Biotechnology Javavpur University
13	Ekta Ganguly	Intern at B.P. Poddar Hospital, New Alipore
14	Talaha Nishat Ahmed	M.ScSt.Xaviers' University


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Batch of 2022 (Year of Passing)

	Name	Progression after B.Sc
1	Rupsa Sardar	M.Sc Microbiology Vijaygarh Jyotish Roy College ,University of Calcutta
2	Purnendu Chakraborty	M.Sc Microbiology Vijaygarh Jyotish Roy College ,University of Calcutta
3	Nimisha Majumder	M.sc Bioinformatics And Biotechnology, IBAB, Bengaluru
4	Sattwik Biswas	M.Sc Bioinformatics Amrita School,Kerala
6	Ayendrila Dutta	M.Sc Microbiology Vijaygarh Jyotish Roy College ,University of Calcutta
7	Priti Das	M.Sc Microbiology Vijaygarh Jyotish Roy College ,University of Calcutta
8	Shreya Chatterjee	M.Sc Microbiology Vijaygarh Jyotish Roy College ,University of Calcutta
9	Tamoghna Dey	M.Sc Microbiology Lady Brabourne College ,University of Calcutta
10	Tamosa Mondal	M.Sc Microbiology Lady BabourneCollege,C.U

Batch of 2023(Year of Passing)

	Name	Progression after B.Sc
1	Tuhin Subhra Ghosh	M.sc in Biotechnology , Savitribai Phule Pune University
2	Achintya karmakar	MBA from Heritage Business School,MAKAUT
3	Jissani Das	M.Sc. in Marine Biotechnology, Goa University
4	Sana Biswas	M.Sc. in Biotechnology, Moulana Abul Kalam Azad Uninersity of Technology
6	Soham Barman	M.Sc in Biotechnology , Presidency University
7	Nilesh Jana	M.Sc in Microbiology JIS University
8	Bidisha Kar	M.Sc in Biotechnology , Presidency University
9	Diya Pal	M.Sc in Microbiology, Lady Brabourne College
10	Sourish Chakraborty	M.Sc in Microbiology, Vijoygarh Jyotish Roy College


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Student Employment during 2019- 20 (Past Batches)

	Name	Batch	Organization, Position, Salary
1	Smriti Ghosh	2020	Operation executive at Mytasker Kolkata
2	Urmi Nath	2020	Part time faculty position as a biology teacher in Rajeev classes.
3	Souvik Das	2020	Associate in WIPRO
4	PratickCh.Das	2020	Pharmacovigilance officer at WIPRO


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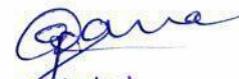
Achievement of the students (if any):



Ms Rima Jana received received Certificate of Recognition on being selected as the Best Student from Sammilani Mahavidyalaya during the academic session 2020-21



Ms Jissani Das of Department of Microbiology, received Certificate of Appreciation from Sammilani Mahavidyalaya for securing the highest marks under Choice Based Credit System in the year 2023


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INDIRECT METHOD

Academic Session: 2018-2021

Semester VI

EXIT FORM SURVEY IS CONDUCTED THROUGH QUESTIONNAIRE

FOR RATING AND RELATION OF POs AND PSOs

Feed Back form for MCBA Course: Batch: 2018-21

Form description

Email *

Valid email address

This form is collecting email addresses. [Change settings](#)

Name and Year of Passing:

Short-answer text

Was the course helpful in developing your interest and liking for the subject? *

Excellent

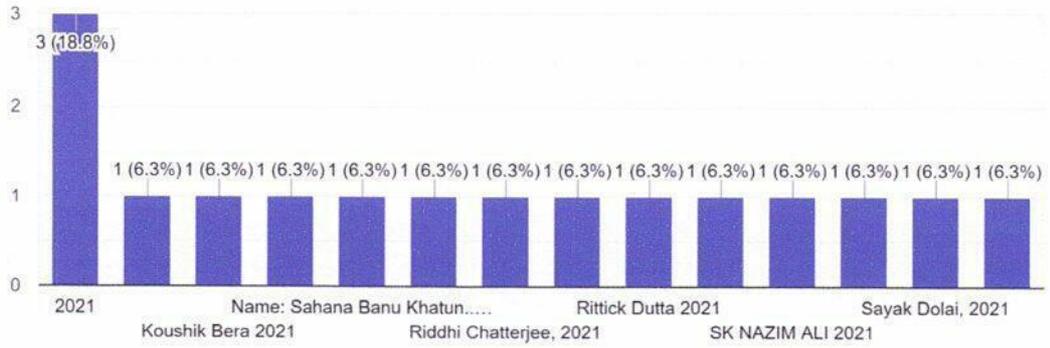
Good

Fair


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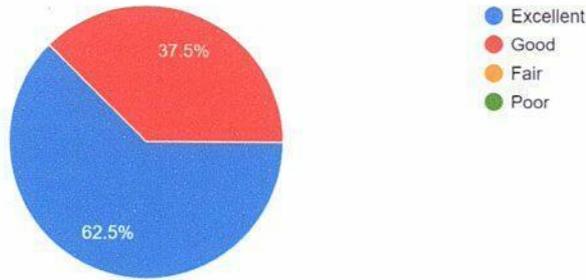
Name and Year of Passing:

16 responses



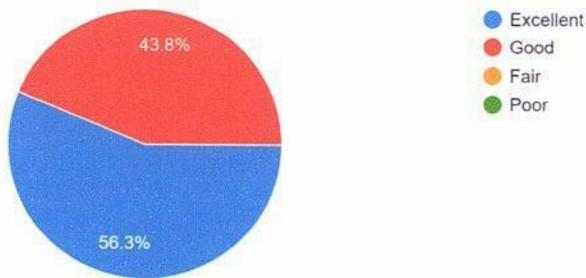
Was the course helpful in developing your interest and liking for the subject?

16 responses



Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.

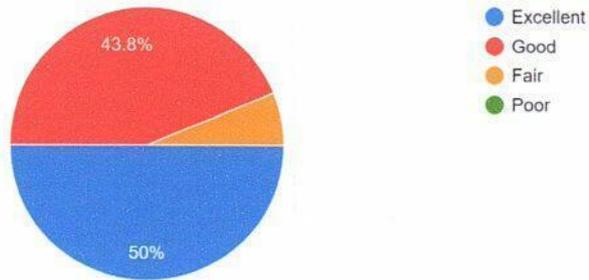
16 responses



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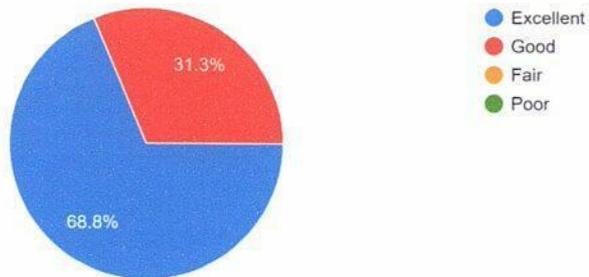
Was a substantial part of the course helpful in giving an interdisciplinary knowledge?

16 responses



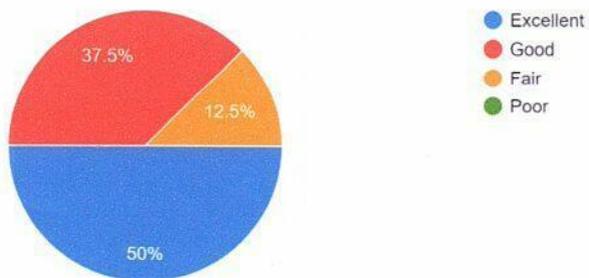
How would you rate the course as far as experimental and practical trainings are concerned?

16 responses



How would you rate the course in terms of modern approaches and contemporary issues?

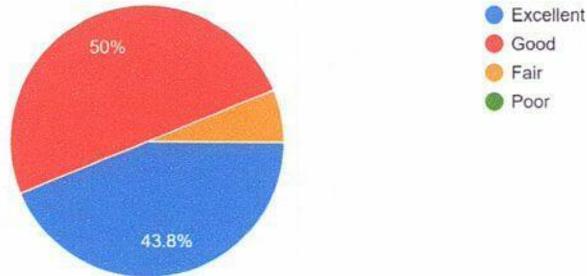
16 responses



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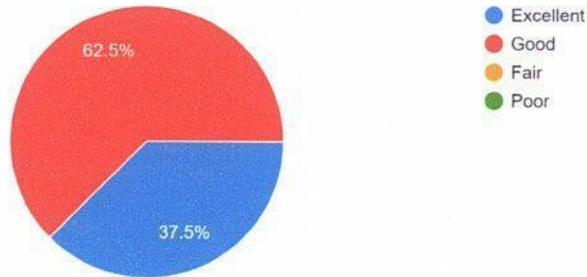
How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?

16 responses



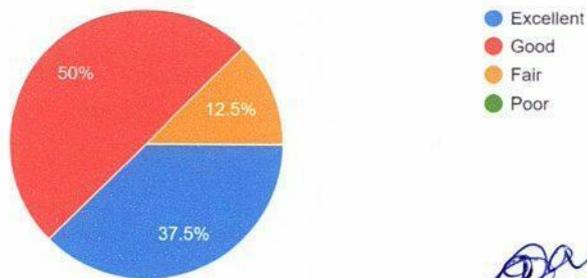
Does the course covers topics for exposure to environmental awareness and sustainability?

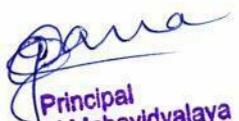
16 responses



Does the course covers aspects of applications of the subject in industry and technology needed for job orientation?

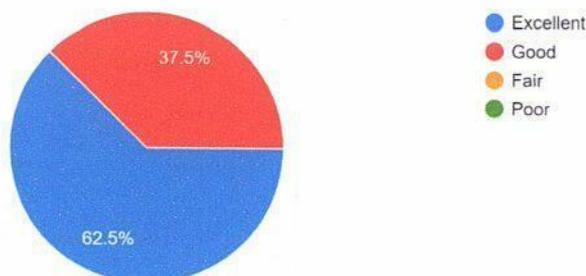
16 responses




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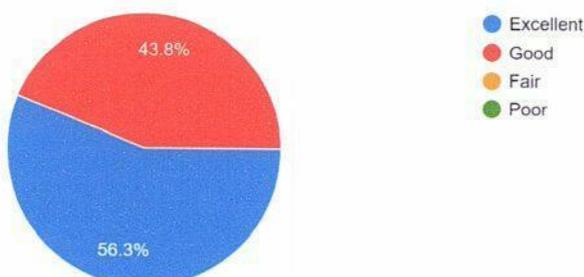
How would you rate the course in terms of developing orientation towards higher studies and research?

16 responses



How would you rate the course in terms of relevance in the present education structure both at the national and international level?

16 responses



Average Rating (Excellent- 4, Good-3, Average-2, Poor-1) Target level: 3

Sl. No.	Questions	Average Rating of 16 students
1	Was the course helpful in developing your interest and liking for the subject?	3.63
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	3.56
3	Was a substantial part of the course helpful in giving an interdisciplinary knowledge?	3.44
4	How would you rate the course as far as experimental and practical trainings are concerned?	3.69
5	How would you rate the course in terms of modern approaches and contemporary issues?	3.38
6	How much has the course been helpful for developing critical thinking and logic applicable for scientific problem	3.38


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	solving?	
7	Does the course cover topics for exposure to environmental awareness and sustainability?	3.38
8	Does the course cover aspects of applications of the subject in industry and technology needed for job orientation?	3.25
9	How would you rate the course in terms of developing orientation towards higher studies and research?	3.63
10	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	3.56

By Indirect Method, the target level of POs & PSOs for attainment has been reached successfully.


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Feed Back form for MCBA Course: Batch: 2019-22

Form description

Email *

Valid email address

This form is collecting email addresses. [Change settings](#)

Name and Year of Passing:

Short-answer text

Was the course helpful in developing your interest and liking for the subject? *

Excellent

Good

Fair

Name and Year of Passing:8 responses

SHREYA CHATTERJEE (2019-2022)

Nimisha Majumder, 2022
2022

Saayan Chakraborty 2022

Swattik Biswas, 2022

Ayendrila Dutta,2022

Rupsa Sardar (2022)

Priti Das, 2022

Sl. No.	Questions	Average Rating of 16 students
1	Was the course helpful in developing your interest and liking for the subject?	3.63
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	3.56
3	Was a substantial part of the course helpful in giving an interdisciplinary knowledge?	3.5
4	How would you rate the course as far as experimental and	3.5


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Sl. No.	Questions	Average Rating of 14 students
1	Was the course helpful in developing your interest and liking for the subject?	4.46
2	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied.	3.93
3	Was a substantial part of the course helpful in giving an interdisciplinary knowledge?	4.06
4	How would you rate the course as far as experimental and practical trainings are concerned?	4.33
5	How would you rate the course in terms of modern approaches and contemporary issues?	4.06
6	How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?	3.93
7	Does the course cover topics for exposure to environmental awareness and sustainability?	4.2
8	Does the course cover aspects of applications of the subject in industry and technology needed for job orientation?	3.93
9	How would you rate the course in terms of developing orientation towards higher studies and research?	4.46
10	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	3.6

By Indirect Method, the target level of POs & PSOs for attainment has been reached successfully.


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Department of Physics

Course Outcomes

1. Physics Honours (PHSA)

Semester	Name of Course	Course Outcomes
I	PHS-A-CC-1-1 Mathematical Physics I	CO1 1) The students will get an overview on mathematical tools required to study theoretical and experimental physics. 2) They learn basic computation using python and 2D plotting using Gnuplot.
I	PHS-A-CC-1-2 Mechanics	CO2 1) Students will learn basics Physics based on Newtonian Mechanics and earn general ideas about how the universe works. 2) They learn to experimentally verify different laws based on Newtonian Mechanics.
II	PHS-A-CC-2-3 Electricity & Magnetism	CO3 1) The students will be given an idea about electricity and magnetism with various electromagnetic phenomena such as electromagnetic induction, electrical circuits, etc. 2) It explains the students about various applications of electricity and magnetism in our daily life. 3) The students will be able to perform various experiments on electricity and magnetism and will learn to handle various electrical equipments.
II	PHS-A-CC-2-4 Waves & Optics	CO4 1) The students will be given basic knowledge in vibration and wave motion. 2) They will get an insight about various optical phenomena like interference, diffraction and polarization of light. 3) They will learn applications of optics and familiarizes with experimental instruments.
III	PHS-A-CC-3-5 Mathematical Physics II	CO5 1) Students will learn more advanced topics of mathematical physics like Fourier series, series solutions of the differential equations, some special functions and their applications. 2) Students will familiar with different packages of Python like numpy, scipy, matplotlib etc. and apply them to find the solutions of matrix algebra, numerical integration, interpolation, differential equation and curve fitting.
III	PHS-A-CC-3-6 Thermal Physics	CO6 1) In this course, students learn the fundamental laws of thermodynamics, the principle of operation of engines and refrigerators and limitations related to ideal gas. 2) They will perform different experiments on heat and


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		thermodynamics that will enhance their experimental skill.
III	PHS-A-CC-3-7 Modern Physics	CO7 1) Students learn about old quantum theory, Schrodinger's equation, basics of nuclear physics and radioactivity. 2) They will also learn fundamental principle of Laser and its applications. 3) Laboratory classes will enable students to determine the value of Planck's constant, study of photoelectric effect, verification of Stefan's law of radiation, determination of e/m of electron and behaviour of tunnel diode.
III	PHS-A SEC-A I Scientific Writing	CO8 1) Students will familiar with scientific writing tool L ^A T _E X. 2) They learn how LaTeX makes all writing tasks simpler, more visually appealing, more consistent, more reproducible and transparent. 3) They will learn how to prepare a scientific article containing figures, tables and mathematical equations in a presentable form.
IV	PHS-A-CC-4-8 Mathematical Physics III	CO9 1) The students will learn advanced mathematical physics such as complex analysis and its application, integral transform, probability theory. 2) They will also learn concept of special theory of relativity which is extremely essential for understanding the physical world beyond Newtonian mechanics. 3) They learn to handle numerical problems involving solutions of ODEs, PDEs and complex analysis using Python.
IV	PHS-A-CC-4-9 Analog Systems and Applications	CO10 1) They learn basics of analog electronics, fundamentals of semiconductor physics and its application which is the heart of the modern-day electronic devices. 2) In laboratory classes, they are familiarized with the electronic devices and to design and perform experiments with electronic components.
IV	PHS-A-CC-4-10 Quantum Mechanics	CO11 1) Students will be taught quantum mechanics theory based on Schrodinger equation. 2) They also learn atomic spectra and energy distribution in electric and magnetic fields. 3) The numerical solution of some of the Schrodinger equations in Python will be taught in the laboratory.
IV	PHS-A-SEC-B I Arduino	CO12 1) Arduino offers to learn basic electronics, circuit connection to breadboard, programming language and IDE. 2) Projects based on Arduino enable students to design

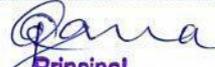
		circuits and enrich their computer programming skills.
V	PHS-A-CC-5-11 Electromagnetic Theory	CO13 1) This course teaches the students about the origin and different properties of the EM waves in bounded and unbounded media. 2) Electromagnetic origin of wave optics and polarization is also being discussed in this course. 3) Students learn the verification of different physical laws related to the EM wave propagation and polarization in laboratory classes.
V	PHS-A-CC-5-12 Statistical Physics	CO14 1) Students will be able to understand the behaviour and dynamics of a system comprising of a large number of particles both classically and quantum mechanically. 2) They learn Python programming to analyze the behaviour of a collection of particles through numerically calculate partition function and other physical properties.
V	PHS-A-DSE-A1 (b) Laser and Fiber Optics	CO15 1) Students will be able to learn the basic and the generation of different types of LASER and their applications. 2) They learn principles and applications of holography.
V	PHS-A-DSE-B1 (b) Nuclear and Particle Physics	CO16 1) Nuclear Physics introduces the student to the concept of nuclear reaction, interaction of nuclear radiation with matter and detectors for nuclear radiation. 2) They also learn about fundamental particles and their properties.
VI	PHS-A-CC-6-14 Digital Systems and Applications	CO17 1) Students learn about number systems, basic gates, counters and registers. 2) In practical classes, they learn to design and construct universal gates, half adders and full adders, flip-flops on breadboard.
VI	PHS-A-CC-6-13 Solid State Physics	CO18 1) This course explains the physical properties of the material in solid states as an application of quantum mechanics. 2) The details of crystallography, basis of semiconductors and superconductors are also theoretically addressed. 3) They learn to verify different laws and properties of materials in laboratory.
VI	PHS-A-DSE-A2 (a) Nano Materials and Applications	CO19 1) The exciting world of nanoscience and nanotechnology is being discussed here through the basic physics underlying the concept of nanoparticles. 2) Students learn the synthesis, properties and various applications of the nano materials.


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VI	PHS-A-DSE-B2 (a) Communication Electronics	CO20 1) In this course, the basics of electronic communications, analog and digital modulations are addressed. 2) Students get an idea about how navigation system works.
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Physics General (PHSG)

Semester	Name of Course	Course Outcomes
I	PHS-G-CC-1-1 Mechanics	CO21 1) This course offers Newtonian mechanics and its application in explaining various classical phenomena. 2) Students learn to perform experiments to calculate different quantities related to Newtonian mechanics.
II	PHS-G-CC-2-2 Electricity and Magnetism	CO22 1) Students will earn knowledge about electricity and magnetism and various electromagnetic phenomena such as electromagnetic induction, electrical circuits, etc. 2) They will be familiar with various experiments on electricity and magnetism.
III	PHS-G-CC-3-3 Thermal Physics and Statistical Mechanics	CO23 1) In this course, students will learn thermodynamics to explain the fundamental laws of nature and brief outline of statistical mechanics. 2) They will perform different experiments on heat and thermodynamics that will enhance their experimental skill.
III	PHS-G-SEC-B Renewable energy and Energy Harvesting	CO24 1) Students are able to understand the concept of fossil fuels and alternate Sources of energy. 2) They learn in detail about various renewable energy sources like solar energy, wind energy harvesting, geothermal energy, hydroenergy, piezoelectric Energy harvesting and electromagnetic energy harvesting.
IV	PHS-G-CC-4-4 Waves and Optics	CO25 1) The students will be given basic knowledge in vibration and wave motion. 2) They will get an idea about various optical phenomena like interference, diffraction and polarization of light. 3) They will learn applications of optics and familiarizes with experimental instruments.
IV	PHS-G-SEC-B Arduino	CO26 1) Arduino offers to learn basic electronics, circuit connection to breadboard, programming language and IDE. 2) Projects based on Arduino enable students to design circuits and enrich their computer programming skills.
V	PHS-G-DSE-A	CO27 1) They learn basics of analog electronics, fundamentals


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	Analog Electronics	of semiconductor physics and its application which is the heart of the modern-day electronic devices. 2) In laboratory classes, they are familiarized with the electronic devices and to design and perform experiments with electronic components.
VI	PHS-G-DSE-B Digital Electronics	CO28 1) Students learn about number systems, basic gates, counters and registers. 2) In practical classes, they learn to design and construct universal gates, half adders and full adders, flip-flops on breadboard.

Program Specific Outcomes

PSO1

Students learn basic computation using python and 2D plotting using Gnuplot. They are able to solve mathematical problems via computational method. Basic skills on handling computational tools will be increased.

PSO2

They learn mathematical tools which helps to understand theories behind fundamental laws of Physics. Mathematical derivations of laws and problem solving skills will increase.

PSO3

Students will learn basics Physics based on Newtonian Mechanics and earn general ideas about how the universe works. They will learn the properties and applications of electricity & magnetism, waves & optics.

PSO4

Students learn about Modern Physics. They able to understand the basics of quantum mechanics, nuclear & particle physics, nanoscience and their applications in modern days.

PSO5

They can enhance their skills in scientific writing via LaTeX and do some project work based on Arduino. Projects based on Arduino enable students to design circuits and enrich their computer programming skills.

PSO6

They learn basics of electronics, fundamentals of semiconductor physics and its application which is the heart of the modern-day electronic devices. Students able to know the principles of communication systems and relate them to daily usage electronic communication systems.

PSO7

In laboratory classes, they earn the hands-on knowledge by operating various scientific instruments. The verification of different laws and their applications will be understandable experientially. The skills of operation various optical, electrical, optoelectronic devices will increase


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Program Outcomes

PO1. Science-based knowledge

Students earn basic knowledge about the working principle of different fundamental phenomena. It helps students to understand how this physical world and universe governed by laws of Physics.

PO2. Critical thinking

They acquire knowledge to identify, formulate, analysis and solve problems. They are able to express their creativity to see the world in a new way.

PO3. Skill enhancement

Students can enhance themselves by various skills like problem-solving, communication, technical skills and research/project development skills which are effective in social and professional fields.

PO4. Science and society

Students learn the necessity and impact of science especially Physics in society. They also learn how to use modern tools in our day-today life.

PO5. Ethics

Applying ethical principles and knowledge of Physics they commit to professional activities and responsibilities based on science and engineering.

PO6. Environment and sustainability

Understanding the impact of science and engineering on environment. Students are being self-conscious for use of environment friendly alternate energy resources and activities for its sustainability. They are also encouraged for inventory works on renewable energy and energy harvesting.

PO7. Communication

Students are being able to communicate effectively via the process of exchanging ideas, thoughts, opinions and data among various science communities and people in society. They may able to design documentations and write effective articles and spread it to people via social media.

PO8. Life-long learning

Continuous knowledge gathering from science and engineering helps independent, self-motivated, life-long learning in the broadest context of both personal and professional fields.


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Mapping of CO, PO & PSO

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO1		✓	✓					✓	✓	✓			✓		
CO2	✓	✓	✓	✓	✓			✓		✓	✓				✓
CO3	✓	✓	✓	✓				✓		✓	✓				✓
CO4	✓	✓	✓					✓			✓	✓			✓
CO5		✓	✓						✓	✓			✓		
CO6	✓	✓	✓	✓				✓			✓				✓
CO7	✓	✓	✓	✓		✓	✓	✓				✓			✓
CO8			✓				✓	✓					✓		
CO9		✓	✓						✓	✓			✓		
CO10	✓		✓	✓		✓	✓	✓				✓		✓	✓
CO11	✓	✓	✓				✓	✓	✓			✓		✓	
CO12			✓			✓	✓						✓	✓	
CO13	✓						✓					✓			✓
CO14	✓	✓	✓				✓	✓	✓			✓		✓	
CO15	✓						✓					✓			
CO16	✓			✓				✓		✓		✓			
CO17	✓		✓	✓	✓	✓	✓	✓				✓		✓	✓
CO18	✓			✓		✓		✓		✓		✓			
CO19	✓			✓		✓		✓		✓		✓			
CO20	✓			✓		✓	✓					✓		✓	
CO21	✓	✓	✓	✓	✓			✓		✓	✓				✓
CO22	✓	✓	✓	✓				✓		✓	✓				✓
CO23	✓	✓	✓	✓				✓			✓				✓
CO24			✓				✓	✓					✓		
CO25	✓	✓	✓					✓			✓	✓			✓
CO26			✓			✓	✓						✓	✓	
CO27	✓		✓	✓		✓	✓	✓				✓		✓	✓
CO28	✓		✓	✓	✓	✓	✓	✓				✓		✓	✓


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Attainment of Course & Programme Outcomes

The process of attainment of PSOs and POs are based on the Vision & Mission statements as well as the achievement of students of the department with the respective programmes offered. Programme specific outcomes are broader and all-inclusive attributes that a student displays at the end of the specific programme like B.A, B.Sc. and B.Com. Programme Outcomes of the specific programme emphasize on the achievement of learning objectives stated in the form of Course Outcomes.

POs, PSOs are defined based on different levels of Bloom's taxonomy from Lower Order thinking skills (LOTS) to Higher Order thinking skills (HOTS). Likewise, set Course Outcomes are set, which describe what students are expected to know and be able to do at the end of each course. These relate to the skills, knowledge, and behaviour that students acquire by the completion of the course. Attainment is reflected when course outcomes have to incorporate the PSOs for the successful actualization of outcomes. To achieve this, the COs of all courses in the programme mapped with POs & PSOs.

The department uses two assessment methods to meet the attainment of POs and PSOs. They are

1. Direct Assessment methods
2. Indirect Assessment methods

The assessment methods, both formative and summative, are the obvious direct measures to determine the attainment of course outcomes. Direct Assessment methods like Continuous Comprehensive Evaluation (Formative assessments) as part of Internal assessments is done through Assignments, Projects, surprise tests, class attendance, Student Seminars, Poster Presentations, Quizzes etc, which account for 50 marks and Semester End examinations for 50 marks are directly related to Course Outcomes. Direct assessment methods provide concrete evidence of students' knowledge, skills, and application abilities, offering a comprehensive understanding of their learning outcomes.

Indirect methods are used to gather feedback and opinions about students' learning experiences and the effectiveness of the educational process. Although they do not directly measure knowledge and skills, these methods provide valuable insights into students' perceptions and satisfaction. Two commonly used indirect assessment methods are: Course Exit Survey & Examiner Feedback. Indirect assessment methods help capture students' opinions, thoughts, and reflections on their learning journey, providing valuable insights for curriculum development and teaching improvement.


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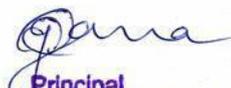
Details description for COs, PSOs & POs attainment can be found following Table:

Direct Assessment Tools			
Sl. No.	Assessment Method	Frequency	Description
1.	Internal Assessment Test	Once per semester	Assessments conducted during the semester to gauge students' progress and mastery of course material. Generally, assessments are conducted one month before the semester-end final examinations. Full marks of each assessment are 20 which is scale down to 10 as per guidelines of BOS of the University of Calcutta.
2.	Assignments/Projects	Once per semester	Assignments/Projects are conducted each semester for some particular courses which are not fully lab-based subjects. 60% marks carry for these courses as per guidelines of BOS of the University of Calcutta.
3.	Tutorials	Once per semester	Tutorials conducted during the semester to gauge students' progress and mastery of course material. Generally, tutorials are conducted nearly one month before the semester-end final examinations. Full marks of each assessment are 15 according to syllabus.
4.	Laboratory Assignments/Practical	4 Classes per week	Practical exercises performed in laboratory settings to assess students' practical skills, handling experimental tools, experimental techniques, and data analysis abilities. Students are given tasks for data analysis, graph plotting at home which are monitored/checked in next


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			classes.
5.	Class Attendance		Regularly in each semester
			Marks awarded as per university guidelines.
6.	Semester-end Examination	Practical	Once per semester
			End Semester practical examinations assess to know the students' ability of operating different experimental tools, performing experimental knowledge to verify different physical laws and also bridging the theory and experiment. Examinations are held along with the theoretical schedule and 30% carry for each course.
7.	Semester-end Examination	Theory	Once per semester
			Comprehensive exams conducted at the end of the semester to assess students' overall knowledge and skills acquired throughout the course. Total 50% to 65% marks carry for each course according to syllabus of CU.
Indirect Assessment Tools			
1.	Exit Form Survey		Completion of Bachelor's degree
			The survey is administered to students towards the end of the programme to gather feedback on the overall learning experience, teaching methods, curriculum, and suggestions for improvement.
2.	Course Survey/Feedback	Exit	After each semester
			Feedback collected after completion of each semester to know students' feedback and provide an external perspective on the attainment of POs.


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The attainment of Course Outcomes (COs), Programme Specific Outcomes (PSOs) and Programme Outcomes (POs) is evaluated based on the above tools, and therefore, the evolution of marks in a particular course is relevant here. Details of marks distributions are given below:

Practical-based course: (Full marks 100)

Attendance (A): 10

Internal Assessment (I): 10

Theory Examination (T): 50

Practical (P): 30 (Lab-Note Book=05, Viva=05, Experiment=20)

Tutorial-based course: (Full marks 100)

Attendance (A): 10

Internal Assessment (I): 10

Theory Examination (T): 65

Tutorial (Tu): 15

Project-based course: (Full marks 100)

Attendance (A): 10

Internal Assessment (I): 10

Theory Examination (T): 20

Project (Pr): 60

Attainment levels for direct and indirect methods:

Attainment of COs based on Direct Method	
Target level	Total (A+I+T+P/Pr/Tu) % of marks obtained
1	>40%
2	40-60%
3	<60%
Attainment of PSOs based on Indirect Method	
Target level	Average Ratings (Out of 4)
1	2.00
2	3.00
3	4.00

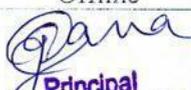
Below given the details of records of internal evaluations, project assignments, students results and progression for the analysis of attainment of Cos.


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Continuous Internal Evaluation (CIE)

Academic session – 2021-2023

Date of internal evaluation	Semester	Course	Topic	Full marks	Taken by	Pattern of question (online/offline)
12.06.2023	II (Hon)	CC3	Electricity and Magnetism	20	Ujjal Saren	Offline
09.06.2023	II (Gen)	CC2/GE 2	Electricity and Magnetism	20	Ujjal Saren	offline
13.05.2023	II (Hon)	CC4	Wave and Optics	20	Ipsita Sen	Offline
	IV (Hon)	CC13	Digital systems and Application	20	Ipsita Sen	Offline
	VI (Gen)	DSEB	Digital Electronics	20	Ipsita Sen	Offline
	VI (Hon)	DSEA2	Nano Materials and Applications	20	Sannak Dutta Roy	Offline
	VI (Hon)	DSEA2	Nano Materials and Applications	30 Tutorial	Sannak Dutta Roy	Offline
	IV (Hon)	CC9	Analog Electronics	20	Sannak Dutta Roy	Offline
	IV (Hon)	CC10	Quantum Mechanics	20	Ujjal Saren	Offline
	IV (Gen)	CC4/GE 4	Waves and Optics	20	Kalpna Santra	Offline
24.12.2022	I (Hon)	CC1	Mathematical Physics I	20	Ipsita Sen	Offline
16.12.2022	I (Hon)	CC2	Mechanics	20	Kalpna Santra	Offline
15.12.2023	V (Hon)	CC12	Statistical Physics	20	Ujjal Saren	Offline
14.12.2023	III (Gen)	CC3/GE 3	Thermal Physics and Statistical Mechanics	20	Ujjal Saren	Offline
09.12.2022	V (Hon)	CC11	Electromagnetic Theory	20	Kalpna Santra	Offline
	V (Hon)	DSEB1 TU	Nuclear and Particle Physics	30 Tutorial	Sayantani Kar	Offline
08.12.2022	V (Hon)	DSEB1 N IN	Nuclear and Particle Physics	20	Sayantani Kar	Offline
	V (Hon)	DSEA1	Laser and Fiber Optics	20	Sannak Dutta Roy	Offline
	V (Hon)	DSEA1	Laser and Fiber Optics	30 Tutorial	Sannak Dutta Roy	Offline
	III (Hon)	CC6	Thermal Physics	20	Sannak Dutta Roy	Offline
	III (Hon)	CC5	Mathematical Physics II	20	Bipan Dutta	Offline
07.12.2022	III (Hon)	CC7	Modern Physics	20	Ananya Kumar Kundu	Offline
	III (Hon)	CC8	Mathematical	20	Bipan	Offline


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			Physics III		Dutta	
	III (Hon)	SEC	Scientific Writing	20	Ananya Kumar Kundu	Offline
06.12.2022	V (Gen)	DSEA	Analog Electronics	20	Ipsita Sen	Offline
22.06.2022	II (Hon)	CC4	Waves and Optics	10	Kaipana Santra	Offline
21.06.2022	IV (Hon)	CC8	Mathematical Physics III	10	Bipan Dutta	Offline
	VI (Hon)	DSEA2	Advanced Classical Dynamics	10	Ujjal Saren	Offline
	VI (Hon)	DSEA2	Advanced Classical Dynamics	15 Tutorial	Ujjal Saren	Offline
	IV (Hon)	CC10	Quantum Mechanics	10	Ujjal Saren	Offline
20.06.2022	IV (Gen)	CC4/GE 4	Waves and Optics	10	Ipsita Sen	Offline
	IV (Hon)	CC9	Analog Electronics	10	Ipsita Sen	Offline
16.06.2022	VI (Gen)	SEC B	Arduino	10	Ananya Kumar Kundu	Offline
	IV (Hon)	SEC B	Arduino	10	Ananya Kumar Kundu	Offline
	VI (Hon)	CC14	Solid State Physics	10	Kaipana Santra	Offline
16.06.2022	II (Hon)	CC2/GE 2	Electricity and Magnetism	20	Ujjal Saren	Offline
	VI (Gen)	DSEB1	Digital Electronics	10	Ipsita Sen	Offline
13.06.022	VI (Hon)	CC13	Digital Systems and Applications	20	Sumanek Dana Roy	Offline
22.05.2022	II (Hon)	CC3	Electricity and Magnetism	10	Bipan Dutta	Offline


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STUDENTS UNDERTAKING PROJECT WORKS ON: ENVIRONMENTAL STUDIES

SEMESTER: II, SESSION: 2022-2023

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1	Junali Phangchoo	513-1211-0420-22	Flora & Fauna	Ananya Kumar Kundu
2	Sayan Halder	513-1112-0314-22	Biodiversity	
3	SK Suhaib	513-1111-0386-22	Eco-System	

STUDENTS UNDERTAKING PROJECT WORKS ON: ARDUINO

SEMESTER: IV, SESSION: 2022-2023

Sl No	Name of the Student	Registration no (University of Calcutta)	Title of the Project	Name of the Supervisor
1	Riya Mal	513-1212-0455-21	Project on Arduino	Ananya Kumar Kundu and Ipsita Sen
2	Ankur Halder	513-1111-0323-21	Project on Arduino	
3	Arindam Maity	513-1111-0411-21	Project on Arduino	
4	Rupak Kayal	513-1111-0420-21	Project on Arduino	
5	Daipayan Mondal	513-1111-0471-21	Project on Arduino	
6	Sunny Sarkar	513-111-0420-21	Project on Arduino	
7	Pronay Sardar	513-1112-0440-21	Project on Arduino	
8	Sumit Gupta	513-1111-0376-21	Project on Arduino	
9	Subhajit Harlder	513-1112-0383-21	Project on Arduino	

Result analysis for CBCS Batch of 2019- 2022

Semester	Appeared	Passed			
			SGPA	Number Of Students	Highest Score & Equivalent Percentage
Sem I	16	16	4-4.99	3	7.833 & 80.25 %
			5-5.99	3	
Sem2	16	16	6 - 6.99	4	8.734 & 88.00 %
			7 - 7.99	8	


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			8-8.99	4	
Sem3	16	16	5-5.99	1	8.81 & 87.00 %
			6-6.99	1	
Sem4	16	16	6-6.99	2	8.912 & 88.80 %
			7-7.99	7	
			8-8.99	7	
Sem5	16	16	6-6.99	4	8.378 & 84.00 %
			7-7.99	11	
			8-8.99	1	
			CGPA		
Sem6	16	15	6-6.99	5	8.261 & 83.15 %
			7-7.99	9	
			8-8.99	1	

Result analysis for CBCS Batch of 2020-2023

Semester	Appeared	Passed	SGPA	Number Of Students	Highest Score & Equivalent Percentage
Sem I	15	15	5-5.99	01	9.142 & 89 %
			6-6.99	01	
			7-7.99	00	
			8-8.99	10	
			9-9.99	03	
Sem 2	15	15	7-7.99	02	8.899 & 88.75 %
			8-8.99	13	
Sem 3	15	15	6-6.99	01	8.69 & 86.20 %

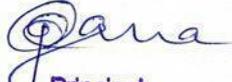
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			7-7.99	03	
			8 – 8.99	10	
Sem 4	15	11	5-5.99	06	7.478 & 75.40 %
			6-6.99	03	
			7-7.99	02	
Sem 5	16	05	5-5.99	01	7.563 & 75.75 %
			6-6.99	03	
			7-7.99	01	
Sem 6	16	10	CGPA		7.887 & 78.92 %
			7 – 7.99	03	

Student Progression:

Batch: 2018-19

Name	Year of passing	CGPA	Current status
Abdul Gaffar Mandal	2021	8.3	Preparing for job
Anudip Maity	2021	7.2	Perusing M.Sc. in Physics from Panskura Banamali College
Subhasish Jana	2021	6.7	Preparing for job
Ranjan Khanra	2021	7.1	Perusing M.Sc. in Physics from Pravat Kumar College, Contai
Jweel Mazumder	2021	7.2	Perusing M.Sc. in Physics from West Bengal State University
Tanay Das	2021	7.1	Perusing M.Sc. in Electronic Science from University of Calcutta
Tanmoy Halder	2021	6.8	Preparing for job
Samrat Mitra	2021	7.3	Perusing B.Ed. from Parameshwar Mahavidyalaya, Namkhana
Kousik Das	2021	7.2	Perusing M.Sc. in Physics from Mahisadal Raj College
Firoj Hoque	2021	6.9	Preparing for job
Payel Mandal	2021	6.5	Perusing B.Ed. from Debnarayan Shiksha Sansthan, Sonarpur
Ritwik Chakraborty	2021	6.9	Preparing himself for job
Sahid Anwar Seikh	2021	7.1	Preparing for job
Sohan Sarkar	2021	6.8	Preparing for job
Prakriti Ghosh	2021	6.9	Perusing M.Sc. in Physics from Techno India University


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Batch 2019-20

Name	Year Of Passing	CGPA	Current Status
Neha Chandra	2022	8.3	Perusing M.Sc. in Physics from Diamond Harbour Women's University
Sagar Das	2022	7.0	Preparing for job
Srijan Das	2022	6.6	Perusing Diploma in Electrical Engineering from The Calcutta Technical School
Subhadip Maity	2022	7.4	Perusing B.Ed. from Annapurna Memorial College of Education, WBUTTEPA
Avijit Kayal	2022	7.5	Perusing M.Sc. in Physics from Jadavpur University
Tapas Kumar Maity	2022	7.0	Perusing M.Sc. in Physics from Belda College
Sagnik Kumar Das	2022	7.3	Perusing MCA from Meghnad Saha Institute of Technology
Sayan Das Ghosh	2022	7.4	Perusing MCA from Netaji Subhas Engineering College
Tamal Sarkar	2022	7.1	Preparing for job
Saikat Giri	2022	7.5	Perusing B.Ed. from Sundarban B.Ed. College
Rupam Mondal	2022	6.6	Perusing B.Ed. from Lt. Abhishek Chaudhuri Teachers' Training College, Sonarpur
Ritam Nath	2022	7.0	Working as Customer Experience Executive HDFC Bank

Percentage of attainment is calculated by statistical averaging:

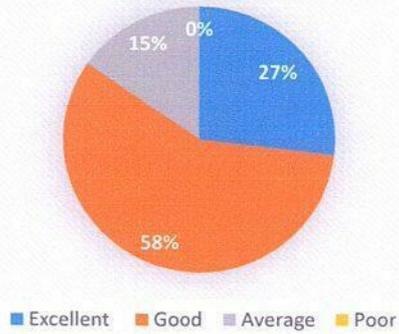
$$\text{Score} = \frac{\sum \% \text{ of marks of all students in particular course}}{\sum \text{ number of students}}$$

Thus, attainment of course outcomes is calculated as 63.75%. Hence attainment of COs is reached to target level 3.

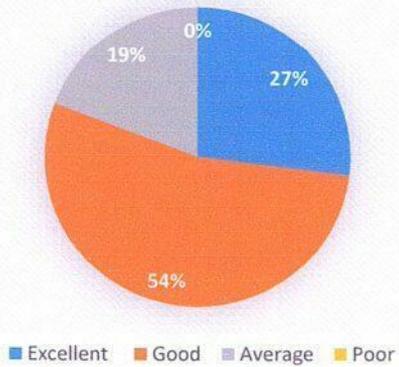
An analysis of the feedback yields useful inputs on the achievement of the outcomes. For the analysis of Programme Specific Outcomes (PSOs), an online course exit survey was performed. Based on the feedback from the questionnaires, outcomes are analysed. Below are the detail analysis of the course exit survey for students who passed out in years 2021-2023. The ratings are scaled as Excellent: 4, Good: 3, Average: 2 & Poor: 1. Yes: 3, May be: 2, No: 1


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Was the course helpful in developing your interest and liking for the subject?

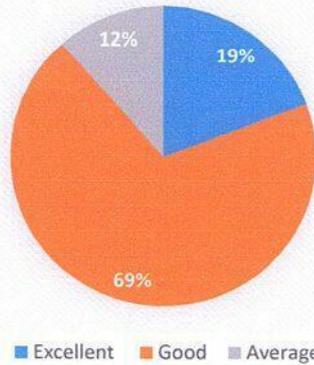


How would you rate the course on the basis of theory and practical classes?

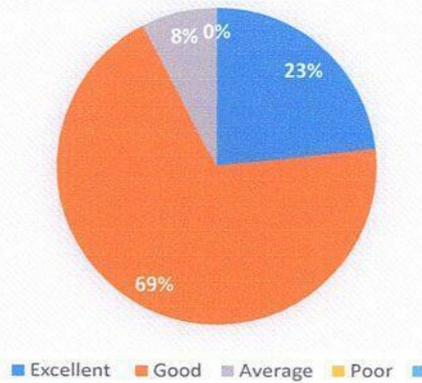



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How would you rate the course in terms of modern approaches and contemporary issues?

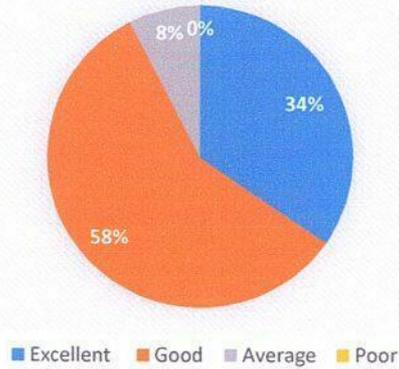


How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?

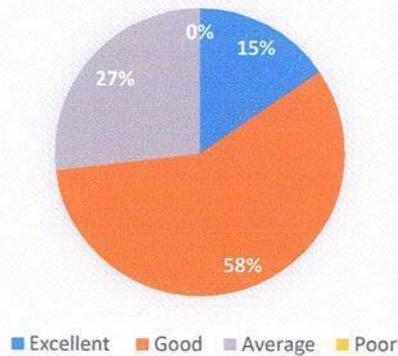


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How would you rate the course in terms of developing orientation towards higher studies and research?

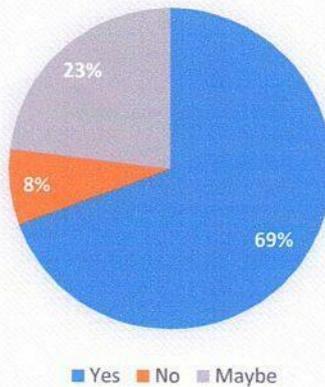


How would you rate the course in terms of relevance in the present education structure both at the national and international level?

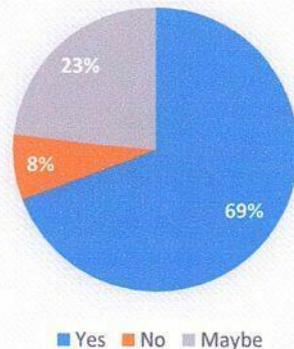


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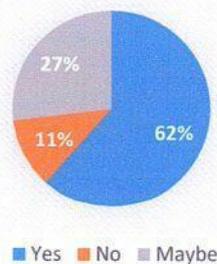
Was a substantial part of the course helpful in giving an interdisciplinary knowledge?



Do you think that the computational course (python programming) will be helpful for carrier in future?

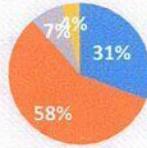


Does the course cover topics for exposure to environmental awareness and sustainability?



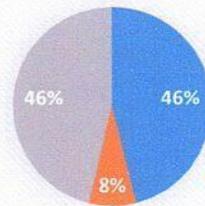

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Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied...



■ Excellent ■ Good ■ Average ■ Poor

Does the course cover aspects of applications of the subject in industry and technology needed for job orientation?



■ Yes ■ No ■ Maybe

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Indirect assessment method for PSOs:

Sl. No.	Questions	Average ratings	Percentage Attainment
1.	Was the course helpful in developing your interest and liking for the subject?	3.12	78%
2.	How would you rate the course on the basis of theory and practical classes?	3.08	77%
3.	How would you rate the course in terms of modern approaches and contemporary issues?	3.08	77%
4.	How much has the course been helpful for developing critical thinking and logic applicable for scientific problem solving?	3.15	79%
5.	How would you rate the course in terms of developing orientation towards higher studies and research?	3.19	80%
6.	How would you rate the course in terms of relevance in the present education structure both at the national and international level?	2.88	72%
7.	Was a substantial part of the course helpful in giving an interdisciplinary knowledge?	2.62	87%
8.	Do you think that the computational course (python programming) will be helpful for carrier in future?	2.62	87%
9.	Does the course cover topics for exposure to environmental awareness and sustainability?	2.50	83%
10.	Rate your gain of knowledge and skill development with reference to the undergraduate course you have studied so far	3.15	79%
11.	Does the course cover aspects of applications of the subject in industry and technology needed for job orientation?	2.38	79%

Through indirect method, average percentage attainment is 79.82%. Thus, target level 3 is achieved via indirect method.

Then average of all the surveys is taken to represent POs attainment:

Assessment Method	Percentage outcomes	Average percentage outcomes
Direct Method	63.75%	71.78%
Indirect Method	79.82%	


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rollamp	Name of the Student	Year of Admission	Was the course helpful in devel	Rate your gain of knowledge ar	Was a substantial part of the co	How would you rate the course	How would you rate the course	How much has the course been	Do you think that the comput
1/17/2024 12:08:22	SUMIT GUPTA	2021	Good	Good	Yes	Good	Good	Good	Yes
1/17/2024 12:49:31	Sunny Sarker	2021	Good	Good	No	Good	Good	Good	Yes
1/17/2024 13:27:42	Ankur Halder	2021	Good	Good	Yes	Good	Good	Good	Yes
1/17/2024 13:46:46	Shalini Kundu	2020	Excellent	Excellent	Yes	Excellent	Excellent	Excellent	Yes
1/17/2024 15:52:47	Rahul Deb Prasad	2018	Average	Good	Maybe	Good	Good	Good	No
1/17/2024 18:20:53	SOURIK GIRI	2021	Excellent	Good	Yes	Good	Good	Good	Yes
1/18/2024 11:08:12	Aksh sarkar	2020	Good	Good	Yes	Good	Good	Good	No
1/18/2024 11:52:01	SUBHAJIT HALDER	2021	Average	Good	Maybe	Good	Good	Good	Maybe
1/18/2024 18:43:43	RANJAN KHANNA	2018	Good	Good	Yes	Good	Good	Good	Yes
1/20/2024 12:02:19	Supriyo Dutta	2020	Excellent	Excellent	Yes	Excellent	Excellent	Excellent	Yes
1/20/2024 12:07:22	Saike Halder	2020	Good	Good	Yes	Good	Good	Excellent	Yes
1/22/2024 11:23:56	SK SUPAIB	2022	Good	Excellent	Yes	Excellent	Good	Excellent	Yes
1/22/2024 11:31:13	Junali Phangchoo	2022	Excellent	Excellent	Yes	Excellent	Good	Excellent	Yes
1/22/2024 11:36:33	ANRAN SEAL	2022	Good	Excellent	Yes	Excellent	Good	Good	Yes
1/22/2024 12:28:36	Shalini Kundu	2020	Excellent	Excellent	Yes	Excellent	Excellent	Excellent	Yes
1/22/2024 12:49:25	SUBHAJIT HALDER	2021	Average	Average	Yes	Average	Average	Average	Maybe
1/22/2024 13:31:04	Ardam Maity	2021	Excellent	Excellent	Maybe	Good	Good	Average	Yes
1/22/2024 14:02:47	Sumit Gupta	2021	Good	Good	Yes	Good	Good	Good	Yes
1/22/2024 18:14:46	DAPAYAN MONDAL	2021	Good	Good	Yes	Good	Good	Good	Yes
1/22/2024 21:06:57	Nabanta Hujait	2020	Good	Good	Yes	Good	Good	Good	Maybe
1/22/2024 21:09:50	Shubhrajit Sarker	2020	Average	Average	Maybe	Average	Excellent	Good	Maybe
1/22/2024 21:31:25	Hensha Debnath	2020	Excellent	Good	No	Average	Excellent	Good	Yes
1/23/2024 8:41:38	Naruppal Maity	2020	Good	Poor	Maybe	Good	Good	Good	Maybe
1/23/2024 8:52:27	Sumon Mondal	2020	Good	Excellent	Yes	Excellent	Good	Good	Yes
1/25/2024 10:01:08	Bibek Singha	2017	Good	Good	Yes	Average	Average	Good	Yes
1/25/2024 15:09:38	Purnady Mondal	2020	Good	Good	Maybe	Average	Average	Good	Maybe


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