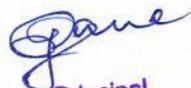


**COPY OF SYLLABUS**  
**Highlighting the**  
**Field work/ Project Work/ Internships**

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

## Environmental Studies (AECC2)

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies (General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

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

*Paul*  
4/6/18  
(Dr. Santanu Paul)  
Deputy Registrar

## University of Calcutta

### Under Graduate Curriculum under Choice Based Credit System (CBCS)

Syllabus for Ability Enhancement Compulsory Course-2 (AECC-2) in  
**Environmental Studies**

Semester-2

**Total Marks-100(Credit -2)**

(50 Theory-MCQ type + 30 Project + 10 Internal Assessment + 10 Attendance)

[Marks obtained in this course will be taken to calculate SGPA & CGPA]

### Theory

<b>Unit 1 Introduction to environmental studies</b>	2 lectures
<ul style="list-style-type: none"><li>•Multidisciplinary nature of environmental studies;</li><li>•Scope and importance; Concept of sustainability and sustainable development.</li></ul>	
<b>Unit 2 Ecology and Ecosystems</b>	6 lectures
<ul style="list-style-type: none"><li>•Concept of ecology and ecosystem, Structure and function of ecosystem; Energy flow in an ecosystem; food chains, food webs; Basic concept of population and community ecology; ecological succession.</li><li>•Characteristic features of the following:<ol style="list-style-type: none"><li>a) Forest ecosystem</li><li>b) Grassland ecosystem</li><li>c) Desert ecosystem</li><li>d) Aquatic ecosystems (ponds, streams, lakes, wetlands, rivers, oceans, estuaries)</li></ol></li></ul>	
<b>Unit 3 Natural Resources</b>	8 lectures
<ul style="list-style-type: none"><li>• Concept of Renewable and Non-renewable resources</li><li>• Land resources and land use change; Land degradation, soil erosion and desertification.</li><li>•Deforestation: Causes, consequences and remedial measures</li><li>•Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international &amp; inter-state).</li><li>•Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources, growing energy needs.</li></ul>	
<b>Unit 4 Biodiversity and Conservation</b>	8 lectures
<ul style="list-style-type: none"><li>•Levels of biological diversity: genetic, species and ecosystem diversity;</li><li>• Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots</li><li>•India as a mega-biodiversity nation; Endangered and endemic species of India</li><li>•Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions;</li><li>•Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.</li><li>•Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.</li></ul>	
<b>Unit 5 Environmental Pollution</b>	8 lectures
<ul style="list-style-type: none"><li>• Environmental pollution: concepts and types,</li><li>• Air, water, soil, noise and marine pollution- causes, effects and controls</li><li>• Concept of hazardous waste and human health risks</li><li>• Solid waste management: Control measures of Municipal, biomedical and e-waste.</li></ul>	

<b>Unit 6 Environmental Policies and Practices</b>	7 lectures
<ul style="list-style-type: none"> <li>•Climate change, global warming, ozone layer depletion, acid rain and their impacts on human communities and agriculture</li> <li>•Environment Laws: Wildlife Protection Act; Forest Conservation Act. Water (Prevention and control of Pollution) Act; Air (Prevention &amp; Control of Pollution) Act; Environment Protection Act; Biodiversity Act.</li> <li>•International agreements: Montreal Protocol, Kyoto protocol and climate negotiations; Convention on Biological Diversity (CBD).</li> <li>•Protected area network, tribal populations and rights, and human wildlife conflicts in Indian context.</li> </ul>	
<b>Unit 7 Human Communities and the Environment</b>	6 lectures
<ul style="list-style-type: none"> <li>•Human population growth: Impacts on environment, human health and welfare.</li> <li>•Case studies on Resettlement and rehabilitation.</li> <li>• Environmental Disaster: Natural Disasters-floods, earthquake, cyclones, tsunami and landslides; Manmade Disaster- Bhopal and Chernobyl.</li> <li>•Environmental movements: Bishnois, Chipko, Silent valley, Big dam movements.</li> <li>•Environmental ethics: Role of gender and cultures in environmental conservation.</li> <li>•Environmental education and public awareness</li> </ul>	
<b>Project/ Field work</b>	Equal to 5 lectures
<ul style="list-style-type: none"> <li>•Visit to an area to document environmental assets: Natural resources/flora/fauna, etc.</li> <li>•Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.</li> <li>•Study of common plants, insects, fish, birds, mammals and basic principles of identification.</li> <li>•Study of ecosystems-pond, river, wetland, forest, estuary and agro ecosystem.</li> </ul>	
<b>Total</b>	50 Lectures

### Suggested Reading:

- Asthana, D. K. (2006). *Text Book of Environmental Studies*. S. Chand Publishing.
- Basu, M., Xavier, S. (2016). *Fundamentals of Environmental Studies*, Cambridge University Press, India
- Basu, R. N., (Ed.) (2000). *Environment*. University of Calcutta, Kolkata
- Bharucha, E. (2013). *Textbook of Environmental Studies for Undergraduate Courses*. Universities Press.
- De, A.K., (2006). *Environmental Chemistry*, 6th Edition, New Age International, New Delhi.
- Mahapatra, R., Jeevan, S.S., Das, S. (Eds) (2017). *Environment Reader for Universities*, Centre for Science and Environment, New Delhi.
- Masters, G. M., & Ela, W. P. (1991). *Introduction to environmental engineering and science*. Englewood Cliffs, NJ: Prentice Hall.
- Odum. E. P., Odum, H. T., & Andrews, J. (1971). *Fundamentals of ecology*. Philadelphia: Saunders.
- Sharma, P. D., & Sharma, P. D. (2005). *Ecology and environment*. Rastogi Publications.

# Arts

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

# কলিকাতা বিশ্ববিদ্যালয়

২০১৮

স্নাতক বাংলা পাঠক্রম

সাম্মানিক

ইউ.জি.সি নিদেশিত সিবিসিএস অনুসারে

(উত্তর লেখার ক্ষেত্রে পরীক্ষার্থীদের পশ্চিমবঙ্গ বাংলা আকাদেমি-র বানানবিধি অনুসরণ করতে হবে)

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

*Munir Ch. Akter*  
Head, Department of Bengali  
Sammilani Mahavidyalaya

## স্নাতক সাম্মানিক বাংলা— 140 (114 + 26) Credits

### A) Discipline Centric Core Course (CC)–6 Credit Each

BNG-A-CC-1-1-Th-Tu	বাংলা সাহিত্যের ইতিহাস (১৮০০ খ্রিঃ পর্যন্ত)
BNG-A-CC-1-2-Th-Tu	বর্ণনামূলক ভাষাবিজ্ঞান ও বাংলা ভাষা
BNG-A-CC-2-3-Th-Tu	বাংলা সাহিত্যের ইতিহাস (উনিশ শতক)
BNG-A-CC-2-4-Th-Tu	বাংলা সাহিত্য : প্রবেশক পাঠ
BNG-A-CC-3-5-Th-Tu	বাংলা সাহিত্যের ইতিহাস (বিশ শতক)
BNG-A-CC-3-6-Th-Tu	ঐতিহাসিক ভাষাবিজ্ঞান
BNG-A-CC-3-7-Th-Tu	কথাসাহিত্য
BNG-A-CC-4-8-Th-Tu	প্রাগাধুনিক সাহিত্য
BNG-A-CC-4-9-Th-Tu	ছন্দ, অলঙ্কার ও কাব্যতত্ত্ব
BNG-A-CC-4-10-Th-Tu	প্রবন্ধ ও বিবিধ রচনা
BNG-A-CC-5-11-Th-Tu	সাহিত্যের রূপ ও রীতি
BNG-A-CC-5-12-Th-Tu	নাটক ও নাট্যমঞ্চ
BNG-A-CC-6-13-Th-Tu	আধুনিক বাংলা কাব্য-কবিতা
BNG-A-CC-6-14-Th-Tu	সংস্কৃত, ইংরেজি ও প্রতিবেশী (হিন্দী) সাহিত্যের ইতিহাস

### B) Discipline Specific Elective (DSE)– 6 Credits Each

BNG-A-DSE-A-5-1-Th-Tu	বাংলার সমাজ ও সংস্কৃতির ইতিহাস
BNG-A-DSE-A-5-2-Th-Tu	বাংলাদেশের সাহিত্য
BNG-A-DSE-A-6-3-Th-Tu	বাংলা গোয়েন্দা সাহিত্য, কল্পবিজ্ঞান আশ্রয়ী রচনা এবং অলৌকিক কাহিনি
BNG-A-DSE-A-6-4-Th-Tu	তুলনামূলক সাহিত্য
BNG-A-DSE-B-5-1-Th-Tu	বাংলা শিশু-কিশোর সাহিত্য
BNG-A-DSE-B-5-2-Th-Tu	দেশভাগ ও বাংলা সাহিত্য
BNG-A-DSE-B-6-3-Th-Tu	চরিত সাহিত্য, আত্মচরিত ও ভ্রমণ সাহিত্য
BNG-A-DSE-B-6-4-Th-Tu	লোকসংস্কৃতি ও লোকসাহিত্য

### C) Skill Enhancement Course (SEC)–2 Credit Each

BNG-A-SEC-A-3-1-Th	মুদ্রণ ও প্রকাশনা
BNG-A-SEC-A-3-2-Th	ব্যবহারিক বাংলা-১
BNG-A-SEC-B-4-1-Th	ব্যবহারিক বাংলা ও সাহিত্য গবেষণার পদ্ধতিবিজ্ঞান
BNG-A-SEC-B-4-2-Th	ব্যবহারিক বাংলা-২

### D) Ability Enhancement Compulsory Course (AECC)–2 Credits

BNG-AECC-1-1Th	
----------------	--

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

*Minul Ch. Hild*  
Head, Department of Bengali  
Sammilani Mahavidyalaya

## BNG-A-CC-4-8-TH-TU

### প্রাগাধুনিক সাহিত্য

উদ্দেশ্য : প্রাগাধুনিক সাহিত্যের এই কোর্সটির মাধ্যমে শিক্ষার্থীরা সাহিত্যের রসাস্বাদনের পাশাপাশি যাতে বাঙালির সমাজ ও ধর্ম-সংস্কৃতির বিবর্তনের গতিরেখাটিকেও অনুধাবন করতে পারে সেদিকে লক্ষ্য রাখা হয়েছে।

মডিউল-১ বৈষ্ণব পদাবলী (কলিকাতা বিশ্ববিদ্যালয় সংস্করণ)

	Class Hours		
	Th	Tu	IA Exam
প্রারম্ভিক আলোচনা নীরদনয়নে নীর ঘন সিঞ্চনে আজু হাম কি পেখলুঁ নবদীপ চন্দ দাঁড়াইয়া নন্দের আগে গোপাল কান্দে অনুরাগে ঘরের বাহিরে দণ্ডে শতবার রূপ লাগি আঁখি বুঝে গুণে মন ভোর এমন পিরীতি কভু নাহি দেখি শূনি সখি কি পুছসি অনুভব মোয় কণ্টক গাড়ি কমল সম পদতল মন্দির বাহির কঠিন কপাট কি মোহিনী জান বধুঁ কি মোহিনী জান বধুঁ তুমি যে আমার প্রাণ অঙ্কুর তপন তাপে যদি জারব বহুদিন পরে বধুঁয়া এলে তাতল সৈকত বারি-বিন্দুসম	২৩	৬	১

মডিউল-২

চণ্ডীমঙ্গল (১-ম খণ্ড)— মুকুন্দ চক্রবর্তী (কলিকাতা বিশ্ববিদ্যালয় সংস্করণ)	২৩	৬	১
---	----	---	---

মডিউল-৩ : শাস্ত্র পদাবলী (কলিকাতা বিশ্ববিদ্যালয় সংস্করণ)

প্রারম্ভিক আলোচনা গিরিবর, আর আমি পারিনে হে, প্রবোধ দিতে উমারে (বাল্যলীলা) গিরি, এবার আমার উমা এলে (আগমনী) কবে যাবে বল গিরিরাজ (ঐ) বারে বারে কহ রাগি, গৌরী আনিবারে (ঐ) ওহে হর গঞ্জাধর, কর অঙ্গীকার (ঐ) গিরিরাগি, এই নাও তোমার উমারে (ঐ) ওরে নবমী নিশি, না হইও রে (বিজয়া) ওহে প্রাণনাথ গিরিবর হে (ঐ) কেবল আসার আশা, ভবে আসা (ভক্তের আকৃতি) মাগো তারা ও শঙ্করি (ঐ) মা আমায় ঘুরাবে কত (ঐ) আমি কি দুখে ডরাই? (ঐ) আমায় দেও মা তবিলদারী (ঐ) এমন দিন কি হবে তারা (ঐ)	২৩	৬	১
---	----	---	---

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

  
Head, Department of Bengali  
Sammilani Mahavidyalaya

- বাংলা সাময়িক পত্রের ইতিবৃত্ত (১ম খণ্ড)— সন্দীপ দত্ত
- Bengali Literature in the Nineteenth Century— Sushil Kr. De
- বাংলা সাময়িক পত্র— ব্রজেন্দ্রলাল বন্দ্যোপাধ্যায়
- বাংলা নাটকের ইতিহাস— অজিতকুমার ঘোষ
- গদ্যরীতি পদ্যরীতি— পবিত্র সরকার

## BNG-A-CC-2-4-TH-TU

### বাংলা সাহিত্য : প্রবেশক পাঠ

উদ্দেশ্য : বাংলা ভাষা ও সাহিত্যের ইতিহাস সম্পর্কে প্রাথমিক জ্ঞানার্জনের পর এখানে শিক্ষার্থীরা সাহিত্যের রসাস্বাদনের সুযোগ পাবে। সাহিত্যের পাঠকে যতটা সম্ভব আনন্দদায়ক করে তোলাই এক্ষেত্রে লক্ষ্য।

মডিউল-১ : কবিতা

	Class Hours		
	Th	Tu	IA Exam
লুই পা— চর্যাপদ-১ বড়ু চণ্ডীদাস— কে না বাঁশী বাএ বড়ায়ি কালিনী নই কুলে বিদ্যাপতি— এ সখি হামারি দুখের নাহি ওর চণ্ডীদাস— সেই কেবা শুনাইল জ্ঞানদাস— সুখের লাগিয়া এ ঘর বাঁধিনু রামপ্রসাদ সেন— মা নিম্ন খাওয়ালে চিনি বলে লালন ফকির— সব লোকে কয় লালন কি জাত মধুসূদন দত্ত— হে বঙ্গ ভাঙারে তব রবীন্দ্রনাথ ঠাকুর— বলাকা কাজী নজরুল ইসলাম— কাণ্ডারী হুঁশিয়ার জীবনানন্দ দাশ— সুচেতনা নীরেন্দ্রনাথ চক্রবর্তী— দেশ দেখাচ্ছ অন্ধকারে শামসুর রাহমান— আমার ভালবাসা শঙ্খ ঘোষ— বাবরের প্রার্থনা শক্তি চট্টোপাধ্যায়— অবনী বাড়ি আছো জয় গোস্বামী— রয় যে কাঙাল শূন্য হাতে	২৩	৬	১

মডিউল ২ : কথাসাহিত্য

ক	বঙ্কিমচন্দ্র চট্টোপাধ্যায়— কপালকুণ্ডলা	১৫		
খ	শরৎচন্দ্র চট্টোপাধ্যায়— অভাগীর স্বর্গ পরশুরাম— লম্বকর্ণ সতীনাথ ভাদুড়ী— চরণদাস এম. এল. এ সমরেশ বসু— আদাব	৮	৬	১

  
 Head, Department of Bengali  
 Sammilani Mahavidyalaya

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

## BNG-A-CC-2-3-TH-TU

### বাংলা সাহিত্যের ইতিহাস (উনিশ শতক)

উদ্দেশ্য : ঔপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের চিন্তা-চেতনা, জীবনমান ও সাহিত্যে যে আধুনিকতার সঞ্চার ঘটেছিল তার সঙ্গে শিক্ষার্থীদের পরিচিত করানোই এই কোর্সের উদ্দেশ্য।

#### মডিউল-১ : কাব্য-কবিতা ও নাটক-প্রহসন

		Class Hours		
		Th	Tu	IA Exam
ক.	বাংলা কাব্যে আধুনিকতার সঞ্চার— প্রেক্ষাপট ও স্বরূপ	১৩	৬	১
	ঈশ্বরচন্দ্র গুপ্ত, রঞ্জলাল বন্দ্যোপাধ্যায়			
	মধুসূদন দত্ত, হেমচন্দ্র বন্দ্যোপাধ্যায়, নবীনচন্দ্র সেন			
	বিহারীলাল চক্রবর্তী, রবীন্দ্রনাথ ঠাকুর, গিরীন্দ্রমোহিনী দাসী			
খ.	আধুনিক বাংলা নাটকের উদ্ভব ও বিকাশ	১০		
	মধুসূদন দত্ত, দীনবন্ধু মিত্র			
	অমৃতলাল বসু, গিরিশচন্দ্র ঘোষ, রবীন্দ্রনাথ ঠাকুর			

#### মডিউল-২ : কথাসাহিত্য ও সাময়িক পত্র

ক.	নকশা-কথাগদ্য থেকে উপন্যাস— বাংলা উপন্যাসের উদ্ভব ও বিকাশ	১৩	৬	১
	ভবানীচরণ বন্দ্যোপাধ্যায়, প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ			
	বঙ্কিমচন্দ্র চট্টোপাধ্যায়, তারকনাথ গঙ্গোপাধ্যায়			
	রমেশচন্দ্র দত্ত, স্বর্ণকুমারী দেবী			
	বাংলা ছোটগল্পের উদ্ভবের প্রেক্ষাপট ও রবীন্দ্রনাথ			
খ.	বাংলা সাময়িক পত্রের উদ্ভব ও বিকাশ	১০		
	সংবাদ প্রভাকর, তত্ত্ববোধিনী পত্রিকা, বিবিধার্থ সংগ্রহ, মাসিক পত্রিকা, সোমপ্রকাশ, বঙ্গদর্শন, ভারতী			

#### মডিউল-৩ : গদ্য ও প্রবন্ধ

বাংলা সাহিত্যে গদ্য রীতি গৃহীত হওয়ার পটভূমি	২৩	৬	১
বাংলা গদ্যের চর্চা ও বিকাশে শ্রীরামপুর মিশন ও ফোর্ট উইলিয়াম কলেজের ভূমিকা			
বাংলা গদ্যের বিকাশে বিভিন্ন সাময়িক পত্রের অবদান			
বাংলা গদ্য ও প্রবন্ধ সাহিত্যের বিকাশে রামমোহন রায়, ঈশ্বরচন্দ্র বিদ্যাসাগর, অক্ষয়কুমার দত্ত, প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, মীর মশাররফ হোসেন ও বিবেকানন্দের অবদান			

#### সহায়ক গ্রন্থ (নির্বাচিত)

- বাংলা সাহিত্যের ইতিহাস (৩-৪ খণ্ড)— সুকুমার সেন
- বাংলা গদ্য সাহিত্যের ইতিহাস— সজনীকান্ত দাস
- বাংলা সাহিত্যে গদ্য— সুকুমার সেন
- বাংলা সাহিত্যের ইতিবৃত্ত (৬-৮)— অসিতকুমার বন্দ্যোপাধ্যায়
- বাংলা সাহিত্যের ইতিকথা (৩-৪)— ভূদেব চৌধুরী
- আধুনিক বাংলা কাব্য— তারাপদ মুখোপাধ্যায়
- উনিশ শতকের গীতিকা— অরুণকুমার মুখোপাধ্যায়

Head, B. Ch. H. S. S.  
Sammilani Mahavidyalaya

Princip:-  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajam  
Kolkata - 700 094

- জনগণের কবি কাজী নজরুল ইসলাম— কল্পতরু সেনগুপ্ত
- নিঃশব্দের তর্জনী— শঙ্খ ঘোষ
- আধুনিক কবিতার ইতিহাস— অলোকরঞ্জন দাশগুপ্ত ও দেবীপ্রসাদ বন্দ্যোপাধ্যায়
- কবিতার মিল ও অমিল— শিশিরকুমার দাশ
- এই কাব্য এই হাতছানি— শক্তি চট্টোপাধ্যায়
- বাংলা কবিতার কালান্তর — সরোজ বন্দ্যোপাধ্যায়

## BNG-A-CC-6-14-TH-TH

### সংস্কৃত, ইংরেজি ও প্রতিবেশী (হিন্দী) সাহিত্যের ইতিহাস

উদ্দেশ্য : বাংলা সাহিত্যের সামগ্রিক পরিচয় পাওয়ার পর শিক্ষার্থী সংস্কৃত, ইংরেজি এবং প্রতিবেশী (হিন্দী) সাহিত্যের ইতিহাস সম্পর্কে প্রাথমিক পরিচয় লাভ করবে এবং সেই আলোকে বাংলা সাহিত্য সম্পর্কেও তার মূল্যায়ন আরো স্বচ্ছ হয়ে উঠবে।

#### মডিউল-১ সংস্কৃত সাহিত্যের সংক্ষিপ্ত ইতিহাস

	Class Hours		
	Th	Tu	IA Exam
কালিদাস (কবি ও নাট্যকার)	২৩	৬	১
ভবভূতি			
বাণভট্ট			
শূদ্রক			
জয়দেব			

#### মডিউল-২ : ইংরেজি সাহিত্যের সংক্ষিপ্ত ইতিহাস

নাটক— উইলিয়াম শেক্সপিয়ার, জর্জ বার্নার্ড শ', স্যামুয়েল বেকেট	২৩	৬	১
কাব্য— উইলিয়াম ওয়ার্ডসওয়ার্থ, পি.বি. শেলি, জন কীটস, টি.এস এলিয়ট			
কথাসাহিত্য—ওয়াল্টার স্কট, চার্লস ডিকেন্স, ভার্জিনিয়া উলফ			

#### মডিউল-৩ : প্রতিবেশী সাহিত্যের সংক্ষিপ্ত ইতিহাস : হিন্দী (পঠন-পাঠন হবে বাংলায়)

ভারতেন্দু হরিশচন্দ্র, মুল্লী প্রেমচাঁদ	২৩	৬	১
মহাদেবী বর্মা, সূর্যকান্ত ত্রিপাঠী নিরলা, ফণীশ্বরনাথ রেণু			

#### সহায়কগ্রন্থ (নির্বাচিত)

- সংস্কৃত সাহিত্যের রূপরেখা— বিমানচন্দ্র ভট্টাচার্য
- সংস্কৃত সাহিত্য পরিক্রমা— করুণাসিন্ধু দাস
- সংস্কৃত সাহিত্যের দশরত্ন— সুখেন্দুসুন্দর গঙ্গোপাধ্যায়
- সংস্কৃত সাহিত্যের ইতিহাস— ধীরেন্দ্রনাথ বন্দ্যোপাধ্যায়
- ইংরাজী সাহিত্যের ইতিহাস— শ্রীকুমার বন্দ্যোপাধ্যায়
- ইংরাজী সাহিত্যের সংক্ষিপ্ত ইতিহাস— সত্যপ্রসাদ সেনগুপ্ত
- ইংরাজী সাহিত্যের রূপরেখা— গোপাল হালদার
- ইংরেজী সাহিত্য পরিচয় — অরবিন্দ পোদ্দার
- ইংরেজী সাহিত্যের ইতিহাস— কুন্ডল চট্টোপাধ্যায়
- হিন্দী সাহিত্যের ইতিহাস— বিজয়েন্দ্র স্নাতক (অনুবাদ—জ্যোতির্ময় দাশ)
- হিন্দী সাহিত্যের ইতিহাস— রামবহাল তেওয়ারী
- আধুনিক হিন্দী সাহিত্য : গতি ও প্রকৃতি— বিপ্লব চক্রবর্তী



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management - TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design - (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

*Sipra Tider*  
Head, Department of Education  
Sammilani Mahavidyalaya

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

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

*Spaul*  
4/6/18  
(Dr. Santanu Paul)  
Deputy Registrar

## **B.A. Honours in Education (EDCH)** **Choice Based Credit System**

In the 3 years B.A. Honours in Education there will be 6 Semesters. The curriculum consists of 14 Core Courses (CC), 2 Ability Enhancement Compulsory Courses (AECC), 2 Skill Enhancement Courses (SEC) and 4 Discipline Specific Elective (DSE) courses and 4 Generic Elective (GE) Courses. Each course is of 100 Marks.

**TH stands for Theory Hour, TU for Tutorial Hour and P for Practical Hour**

**Semester 1 = 400 Marks (20 Credit)**

**Semester 2 = 400 Marks (20 Credit)**

**Semester 3 = 500 Marks (26 Credit)**

**Semester 4 = 500 Marks (26 Credit)**

**Semester 5 = 400 Marks (24 Credit)**

**Semester 6 = 400 Marks (24 Credit)**

**Total: 2600 Marks (140 Credits)**

### **Distribution of marks:- (Out of 100)**

**Attendance = 10 Marks**

**Internal Assessment = 10 Marks**

**Tutorial = 15 Marks**

**Subjective Exam = 65 Marks**

**Total = 100 Marks**

		<b>Semester wise Courses</b>					
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Core Courses (CC)</b>		<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>
<b>Elective Courses</b>	<b>Generic Elective (GE)</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>		
	<b>Discipline Elective</b>					<b>2</b>	<b>2</b>
<b>Ability Enhancement</b>	<b>Language / Environment</b>	<b>1</b>	<b>1</b>				
	<b>Skill Based Electives</b>			<b>1</b>	<b>1</b>		
<b>Total Credit</b>		<b>20</b>	<b>20</b>	<b>26</b>	<b>26</b>	<b>24</b>	<b>24</b>

*(Signature)*  
Principal  
Sammilani Mahavidyalaya,  
E.M.Bypass, Baghajatin  
Kolkata - 700 094

*(Signature)*  
Head, Department of Education  
Sammilani Mahavidyalaya

**Core Courses (CC):-** 14 for Honours Course.

**Discipline Specific Elective (DSE):-** 4 for Honours Courses. Elective Courses offered under the main Discipline/Subject of study is referred to as Discipline Specific Elective. The list provided under this category is suggestive in nature and each University has complete freedom to suggest their own papers under this category.

**Generic Elective (GE):** 4 for Honours courses. An elective course chosen from an unrelated Discipline/Subject.

**Ability Enhancement Courses (AEC):-** It may be of two kinds.

- Ability Enhancement Compulsory Courses (AECC)
- Skill Enhancement Courses (SEC)

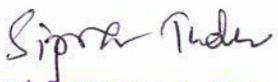
AECC courses are the courses based upon the content that leads to knowledge enhancement.

- i) Environmental Studies and
- ii) Communicative English/Hindi/MIL  
(These are mandatory for all Disciplines)

SEC courses are value based and/or skill based. 2 for Honours Course.

**Tutorial:-** Topics are to be selected within the particular paper.

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

  
Head, Department of Education  
Sammilani Mahavidyalaya

**CC – 3 (Semester 2)**  
**Psychological Foundation of Education**

**Objectives:**

- To understand the meaning of Psychology and be acquainted with its different aspects.
- To know the patterns of different aspects of human development and relate this knowledge with education.
- To be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition.

**Unit: 1 = Relation between Psychology and Education**

- Meaning and definition of Psychology
- Meaning and definition of Education
- Relation between Psychology and education
- Nature, scope and significance of educational psychology.

**Unit: 2 = Stages and types of human development and their educational significance.**

- Piaget's cognitive development theory
- Erikson's psycho-social development theory
- Kohlberg's moral development theory
- Vygotsky's social development theory and Bandura's Social Learning Theory

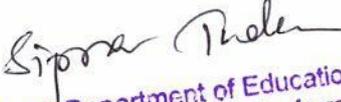
**Unit: 3 = Learning: concept and theories**

- Concept and characteristics of learning
- Theories: Connectionism (Trial and error, classical, operant conditioning)
- Insightful learning
- Memorization and Forgetting: Process of memorization, causes of forgetting and economical ways of improving memorization

**Unit: 4 = Intelligence**

- Concept of intelligence
- Theories of Intelligence by Spearman, Thorndike and Guilford
- Types and uses of intelligence tests
- Concept of Emotional Intelligence and E.Q

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

  
Head, Department of Education  
Sammilani Mahavidyalaya

**CC-4 (Semester 2)**  
**Philosophical Foundation of Education**

**Objectives:**

- To understand the meaning and relation of philosophy and education
- To understand the importance of philosophy in education
- To be acquainted with the Indian schools of philosophy and their impact on education
- To be acquainted with the western schools of philosophy and their impact on education
- To develop an understanding of philosophy for development of humanity

**Unit 1 = Concept of educational philosophy**

- Meaning of philosophy
- Etymological meaning of education
- Relation between philosophy and education
- Importance of philosophy in education

**Unit 2 = Indian schools of philosophy**

- Vedic school - Sankhya
- Vedic school - Yoga
- Non-vedic School - Buddhism
- Non-vedic School - Jainism

**Unit 3 = Western schools of philosophy**

- Idealism
- Naturalism
- Pragmatism
- Realism

**Unit 4 = Philosophy for development of humanity**

- Education and development of values
- Education for national integration
- Education for international understanding
- Education for promotion of peace and harmony

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

  
Head, Department of Education  
Sammilani Mahavidyalaya

**CC-8 (Semester 4)**  
**Technology in Education**

**Objectives:**

- To develop an understanding of educational technology
- To be acquainted with the system approach
- To develop an understanding of the use of computer in education and communication
- To get acquainted with the instructional techniques and different models of teaching
- To develop an understanding of ICT & e-learning.

**Unit 1 = Introductory concept**

- Concept of Technology
- Need and scope of educational technology
- System approach- concept and need
- Classification and components of system approach

**Unit 2 = Computer in education and communication**

- Computer and its role in education
- Basic concept of hardware and software
- Computer network and internet- its role in education
- Communication and classroom interactions- concept, element and process

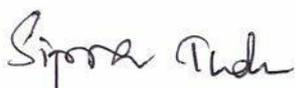
**Unit 3 = Instructional techniques**

- Mass instructional technique- characteristics and types
- Personalised instructional techniques- characteristics and types
- Difference in teaching and instruction
- Models of teaching- concept, components and significance

**Unit 4 = ICT & e-learning**

- Meaning and concept of ICT, e-learning
- Nature and characteristics of e-learning
- ICT integration in teaching learning, massive open online course (MOOC)
- Different approaches- Project based learning, co-operative learning and collaborative learning

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

  
Head, Department of Education  
Sammilani Mahavidyalaya

**CC – 9 (Semester 4)**  
**Curriculum Studies**

**Objectives:**

- To develop an understanding about concept, nature, types and major approaches of curriculum
- To understand the relation among curriculum, pedagogy and assessment
- To develop an understanding about curriculum development and national curriculum framework, 2005
- To get acquainted with content selection and selected theories in this regard
- To develop an understanding of evaluation & reform of curriculum

**Unit 1 = Introductory concept**

- Meaning, nature, scope and functions of curriculum
- Bases of curriculum: philosophical, psychological and sociological
- Major approaches to curriculum - behavioural, managerial, system, humanistic
- Types of curriculum - knowledge, experience & activity based

**Unit 2 = Content selection**

- Determinants of content selection - perspectives of knowledge, culture & need
- Curriculum and institution - instructional objectives
- Revised Bloom's taxonomy
- Bruner's theory of instruction

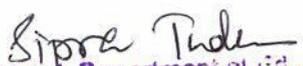
**Unit 3 = Curriculum development**

- Principles of curriculum construction
- Learner centred curriculum framework - concept, factors & characteristics
- Curriculum development - need, planning
- NCF, 2005

**Unit 4 = Evaluation & reform of curriculum**

- Concept & significance of curriculum evaluation
- Approaches to curriculum evaluation - formative & summative
- Models of evaluation - Stufflebeam & Taylor
- Curriculum reform - factors & obstacles

  
Princi,  
Sambalini Mahavidyalaya  
E.M.Bypass, Baghajatin  
Kolkata - 700 094

  
Sipra Tudu  
Head, Department of Education  
Sambalini Mahavidyalaya

CC – 10 (Semester 4)  
Inclusive Education

Objectives:-

- Understand the meaning of Inclusion and exclusion
- Know the types of exclusion and their causes
- Know how to bring about inclusion in different spheres

Unit: 1 = Inclusion Overview

- Meaning of Inclusion and Inclusive Society
- Exclusion and Inclusion: Conceptual overview
- Obstacles/barriers in Inclusion
- Elements necessary for creating an inclusive society

Unit: 2 = Differently Abled

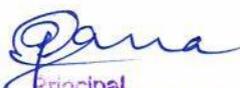
- Concept of Impairment, Disability and Handicap
- Types of disabilities- Orthopaedic, Visual, Auditory, Cerebral Palsy, Intellectual, Autism, Learning Disability (only definition and their specific problems)
- General causes of disabilities
- Role of school and society in creating a barrier free environment

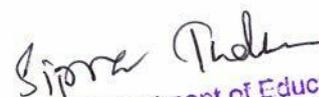
Unit: 3 = Socially Disabled

- Concept of SC, ST and OBC groups.
- Concept of Gender, and sexuality
- Causes of social exclusion
- Understanding social inclusion: role of education

Unit: 4 = Educational Reforms for Inclusive Society.

- Building an Inclusive school: desired changes in System, Structure, Practice and Culture,
- Education for a multicultural society.
- Education for peaceful co-existence
- Role of Informal agencies (like mass media etc) in building an inclusive society

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

  
Head, Department of Education  
Sammilani Mahavidyalaya

CC – 14 (Semester 6)  
**Basic Concept of Educational Research**

**Objectives:-**

- Have a concept of educational research
- Learn about the various steps to be followed for conducting a research
- Learn how to write a research proposal and review research papers

**Unit: 1 = Concept of Educational Research**

- Definition, meaning and concept of research
- Educational research and its characteristics
- Types of Educational Research
- Problems, difficulties and ethics

**Unit: 2 = Basic elements of educational research**

- Literature review
- Problem selection
- Objectives, Research question and Hypothesis
- Tools of Data collection –types

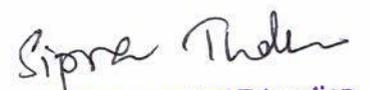
**Unit: 3 = Data collection procedure**

- Sampling –concept and definition
- Types of sampling- Probability and non-probability
- Data reporting- Descriptive and Inferential ( basic statistical procedure that come under each)
- Referencing and Bibliography

**Unit: 4 = Tutorial (Project/Term Paper centric)**

- Writing Research proposal (Within 1000 words) - Plan of Work– steps and review (atleast5)

  
Principal  
Sammilani Mahavidyalaya  
E.M.Bypass, Bagmati  
Kolkata - 700 004

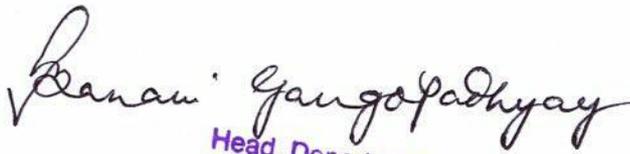
  
Head, Department of Education  
Sammilani Mahavidyalaya

**CBCS SYLLABUS**  
**IN**  
**HISTORY (HONOURS)**

**CALCUTTA UNIVERSITY**

**2018**

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

  
Head, Department of History  
Sammilani Mahavidyalaya



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA 700072

*Banani Gangopadhyay*  
Head, Department of History  
Sammilani Mahavidyalaya

*Pana*  
Principal  
Sammilani Mahavidyalaya  
E.M.Bypass, Baghajatin  
Kolkata - 700 094  
*Paul*  
4/6/18  
(Dr. Santanu Paul)

# University of Calcutta

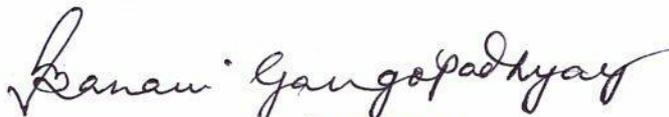
## HIS – A

The Three - year B.A. Honours in History will comprise 6 Semesters. The curriculum will consist of 14 Core Courses (CC), 4 Discipline Specific Elective (DSE) courses, 2 Ability Enhancement Compulsory Courses (AECC), 2 Skill Enhancement Courses (SEC) Each course will be of 100 Marks. Attendance: 10 marks per Paper, Internal Assessment: 10 marks per paper.

### ➤ **Core Courses CC**

[Fourteen courses. Each course: 6 credits (5 theoretical segments TH+ 1 for tutorial related segment TU). Total: 84 credits.

- Each course carries 80 marks. Teaching time: 6x14 = 84 hrs  
Minimum 60 classes
- 65 marks for theoretical segment.
- Question Pattern for subjective/descriptive segment of 65 marks: 3 questions out of 6 (within 500 words) (10 x3 = 30) + 4 questions out of 8 within 250 words; 5x4 =20) + 15 objective type questions carrying 1 mark each (15 x 1 = 15).
- 15 marks for tutorial - related segments as suggested below (any one from each mode):
- Any one of the following modes: upto 1000 words for one Term Paper/upto 500 words for each of the two Term Papers/ equivalent Book Review/ --based on syllabus -related and/or current topics .[The modes and themes and/or topics are be decided by the concerned faculty of respective colleges.]
- Core courses: 2 each in Semesters 1 and 2; three each in Semesters 3 and 4; 2 each in Semesters 5 and 6.
- **IMPORTANT NOTES:**  
The Readings provided below include many of those of the UGC Model CBCS Syllabus in History. For further details of Course Objectives and additional references it is advised that the UGC model CBCS syllabus concerning relevant courses and topics should be given due importance and primarily consulted.
- Cited advanced texts in Bengali are not necessarily substitutes, but supplementary to the English books.

  
Head, Department of History  
Sammilani Mahavidyalaya

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

- The format is subject to the common structural CBCS format of the University.

### ➤ **Discipline- specific Elective Courses DSE**

Each course: 6 credits 5 for theoretical segment + 1 for tutorial-related segment. **(TH -5 TU-1)**

#### **DSE-A for Semester -5/6, DSE-B for Semester 5/6**

- Each course carries 80 marks. Minimum 60 classes.
- 65 marks for theoretical segment.
- Question Pattern for subjective/descriptive segment of 65 marks: 3 questions out of 6 (within 500 words;  $(10 \times 3 = 30)$  + 4 questions out of 8 (within 250 words;  $5 \times 4 = 20$ ) and 15 objective type questions carrying 1 mark each ( $15 \times 1 = 15$ ).
- **15 marks for tutorial-related segments as suggested below** (any one from each mode): Any one of the following modes: upto 1000 words for one Term Paper/upto 500 words for each of the two Term Papers/ equivalent Book Review/ based on syllabus related and/or current topics [The modes and themes and/or topics of a. and b. to be decided by the concerned faculty of respective colleges.]

- **HIS-A: Skill Enhancement/Skill-based Courses SEC** Each Course: 2 credits . **(Only theoretical.)**

#### **SEC –A in Semester 3, SEC –B in Semester 4.**

- Each course carries 80 marks. Teaching time: 2 hrs per week or  $2 \times 14 = 28$  hrs
- 80 marks for theoretical segment.
- Question Pattern for subjective/descriptive segment of 80 marks: 4 questions out of 8 (within 500 words;  $(10 \times 4 = 40)$  + 5 questions out of 10 (within 250 words;  $5 \times 5 = 25$ ) and 15 objective type questions carrying 1 mark each ( $15 \times 1 = 15$ ).

- **HIS-A: Ability Enhancement Compulsory Courses ( AECC )** Each Course 2 credits

AECC -1 : Communicative English/ MIL

AECC-2 : Environmental Studies

**AECC -1 in Semester 1, AECC -2 in Semester 2**

### **IMPORTANT NOTES:**

*Ranani Gangopadhyay*

Head, Department of History,  
Sammilani Mahavidyalaya

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

## LIST OF COURSES FOR HISTORY HONOURS PROGRAMME

- The Readings provided below include many of those of the UGC Model CBCS Syllabus in History. For Course Objectives and references it is advised that the UGC model CBCS syllabus concerning relevant courses and topics should be given due importance and primarily consulted.

\*Website: BA History (Honours):

- Cited advanced texts in Bengali are not necessarily substitutes, but supplementary to the English books.
- The format is subject to the common structural CBCS format of the University.

### HIS-A COURSES SEMESTER WISE

	SEM-1	SEM-2	SEM-3	SEM-4	SEM-5	SEM-6
<b>CC</b>	CC-2TH/2TU 1&2	CC-2TH/2TU 3&4	CC-3TH/3TU 5,6&7	CC-3TH/3TU 8,9&10	CC-2TH/2TU 11,&12	CC-2TH/2TU 13&14
<b>DSE</b>					DSE-A* DSE-B 2TH/2TU	DSE-A* DSE-B 2TH/2TU
<b>**GE</b>	GE-1 1TH/1TU	GE-2 1TH/1TU	GE-3 1TH/1TU	GE-4 1TH/1TU		
<b>AECC</b>	AECC-1 1TH/0TU	AECC-2 1TH/0TU				
<b>SEC</b>			SEC-A 1TH/0TU	SEC-B 1TH/0TU		
<b>Total No. of Courses and Marks</b>	4x100= 400	4x100= 400	5x100= 500	5x100= 500	4x100= 400	4x100= 400
<b>Total Credits</b>	20	20	26	26	24	24

\***HIS-A- DSE** – Candidates can choose any one paper in Semester -5 and another in Semester 6 taking one from Group –A and the other from Group –B

\*\***HIS-A Generic Elective (GE)**: The four Generic Elective papers (courses) for History (Honours) students will be from any subject other than History. Similarly History as Generic Elective will be offered to students having Honours in any subject other than History. The Generic Elective papers in History, for Honours students (for students having Honours in any subject other than History.) will be treated as Core Papers in History, for General students (for BA General Students having History. as a General paper)

*Kanani Gangopadhyay*  
Head, Department of History  
Sammilani Mahavidyalaya

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

COURSE CODE	(6 Credits per Core Course)
<b>Subject-Hon-Core-Semester-Paper-TH&amp;TU</b>	<b>CORE COURSES</b>
HIS-A-CC -1-1-TH&TU	
HIS-A-CC -1-2-TH&TU	
HIS-A-CC -2-3-TH&TU	
HIS-A-CC -2-4-TH&TU	
HIS-A-CC -3-5-TH&TU	
HIS-A-CC -3-6-TH&TU	
HIS-A-CC -3-7-TH&TU	
HIS-A-CC -4-8-TH&TU	
HIS-A-CC -4-9-TH&TU	
HIS-A-CC -4-10-TH&TU	
HIS-A-CC -5-11-TH&TU	
HIS-A-CC -5-12-TH&TU	
HIS-A-CC -6-13-TH&TU	
HIS-A-CC -6-14-TH&TU	
<b>Skill Enhancement Course (2 Credits per Course)</b>	
<b>GROUP-A</b>	<b>HIS-G-SEC-3-A(1) or A(2)-TH</b>
SEC-A-(1)	
SEC-A-(2)	
<b>GROUP-B</b>	<b>HIS-G-SEC-4-B(1) or B(2)-TH</b>
SEC-B-(1)	
SEC-B-(2)	
<b>DISCIPLINE SPECIFIC ELECTIVE (6 Credits per Course)</b>	
<b>GROUP-A</b>	<b>Semester 5: DSE A-1/ A-2 &amp; Semester-6: DSE A-3/A4TH&amp;TU</b>
DSE-A-(1)	HIS-A-DSE-A-1-5 TH&TU
DSE-A-(2)	HIS-A-DSE-A-2 -5TH&TU
DSE-A-(3)	HIS-A-DSE-A-3-6 TH&TU
DSE-A-(4)	HIS-A-DSE-A-4 -6 TH&TU
<b>GROUP-B</b>	<b>Semester 5: DSE B-1/ B-2 &amp; Semester-6: DSE A3/A4 TH&amp;TU</b>
DSE-B-(1)	HIS-A-DSE-B-1 -5TH&TU
DSE-B-(2)	HIS-A-DSE-B-2 -5TH&TU
DSE-B-(3)	HIS-A-DSE-B-3-6 TH&TU
DSE-B-(4)	HIS-A-DSE-B-4-6 TH&TU
<b>DISCIPLINE SPECIFIC ELECTIVE</b>	
➤ Note: Choose any one paper in Semester -5 and another in Semester 6 taking one from Group -A and the other from Group -B	
<b>GENERIC ELECTIVE (6 Credits per Course)</b>	
➤ Note: Core Courses Designed for General Programme will be offered as Generic Elective courses for students of other Disciplines.	

*Banani Gangopadhyay*

Head, Department of History  
Sammilani Mahavidyalaya

*Pana*

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

## Structure of B.A (Hons. ) History Course under CBCS HIS-A-CC-1-14- TH & TU

- Paper 1 SEM -1: History of India (From the Earliest times to C 300 BCE)
- Paper 2 SEM-1: Social Formations and Cultural Patterns of the Ancient World other than India
- Paper 3 SEM-2: History of India (c 300 BCE to c.750 CE)
- Paper 4 SEM-2: Social Formations and Cultural Patterns of the Medieval World other than India
- Paper 5 SEM-3: History of India (c.750 – 1206)
- Paper 6 SEM-3: Rise of the Modern West –I
- Paper 7 SEM-3: History of India (c.1206 – 1526)
- Paper 8 SEM-4: Rise of the Modern West – II
- Paper 9 SEM-4: History of India (c.1526-1605)
- Paper 10 SEM-4 History of India (c.1605 – 1750s)
- Paper 11 SEM-5: History of Modern Europe (c.1780-1939)
- Paper 12 SEM-5: History of India (c.1750s– 1857)
- Paper 13 SEM-6: History of India (c. 1857 – 1964)
- Paper 14 SEM-6 : History of World Politics: (1945-1994)

### HIS-A- DSE TH & TU

**Discipline Specific Elective DSE (Any Four) Choosing any one paper in Semester -5 and another in Semester 6 taking one from Group –A and the other from Group –B**

- Paper 1 DSE-A-1 SEM -5: History of Bengal (c.1757-1905)
- Paper 2 DSE-A-3 SEM -6: History of Bengal (c.1905-1947)
- Paper 3 DSE-B-2 SEM -5: History of Southeast Asia – The 19<sup>th</sup> Century
- Paper 4 DSE-B-4 SEM -6: History of Southeast Asia – The 20<sup>th</sup> Century
- Paper 5 DSE-B-1 SEM -5: History of Modern East Asia – I China (c.1840 – 1949)
- Paper 6 DSE-B-3 SEM -6: History of Modern East Asia – II Japan (c.1868 – 1945)
- Paper 7 DSE-A-2 SEM -5: History of United States of America – I (c.1776 – 1945)
- Paper 8 DSE-A-4 SEM -6: History of United States of America – II (c.1776-1945)

**Skill Enhancement Courses SEC –A & B (Any Two) Choosing one from group-A and one from group-B) in Semester 3 and 4**

- SEC -A 1: SEM-3 Archives and museums
- SEC -B 1: SEM-4 Understanding Popular Culture
- SEC-A 2: SEM-3 Understanding Heritage
- SEC-B 2: SEM-4 Art Appreciation: an Introduction to Indian Art

**\*Generic Elective Courses (GE) - Same as Core courses (CC) offered in the BA General Syllabus.**

  
Head, Department of History  
Sammilani Mahavidyalaya

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

## CC-8 : Rise of the Modern West - II

- I. a) Printing Revolution.  
b) ~~Revolution in war techniques~~
- II. a.) Crisis in Europe in the 17<sup>th</sup> century  
b.) Its economic, social and political dimensions
- III. a.) The English Revolution : major issues  
b.) Political and intellectual issues
- IV. a.) Scientific Revolution  
b.) Emergence of scientific academies  
c.) Origins of Enlightenment
- Va.) Mercantilism and European economics  
b.) Preludes to the Industrial Revolution
- VI. a.) European Politics in the 17<sup>th</sup> & 18<sup>th</sup> Century  
b.) Parliamentary monarchy  
c.) patterns of Absolutism in Europe

### **Essential Readings**

- Butterfield H., The Origins of Modern Science. The Macmillan Company. 1959
- Cipolla Carlo M., Fontana Economic History of Europe, Vols. II and III Collins/ Fontana Books; 1978
- Cipolla Carlo M., Before the Industrial Revolution, European Society and Economy, 1000-1700, W. W. Norton & Company; 3rd edition 1994
- Coleman D.C (ed.), Revisions in Mercantilism Methuen & Co, 1969.
- Davis Ralph, The Rise of the Atlantic Economics. Cornell University Press, 1973
- Dobb Maurice, Studies in the Development of Capitalism, International Publishers, 1947
- Parker G., Europe in Crisis, 1598-1648 Ithaca, N.Y. : Cornell University Press. 1980
- Parry, J.H., The Age of Reconnaissance University of California Press, 1981
- Phukan Meenaxi, Rise of the Modern West: Social and Economic History of Early Modern Europe. Laxmi Publications 2013
- Poliensky.V, war and Society in Europe, 1618-48 Cambridge University Press, 2008
- Rabb Theodore K., The Struggle for Stability in Early Modern Europe. Oxford University Press, 1975
- Scammell V., The First Imperial Age: European Overseas expansion, 1400-1715. Routledge, 2003
- Vries Jan de, Economy of Europe in an Age of Crisis 1600-1750. New York: Cambridge University Press, 1976

### **Suggested Readings :**

- Anderson M.S, Europe in the Eighteenth Century Holt, Rinehart and Winston, 1961
- Anderson, Perry, The lineages of the Absolutist States. Verso, 1979
- Aston, T.H and Philipin C.H.E (eds.), The Brenner Debate: Agrarian Class Structure and Economic Development in Pre-Industrial Europe, Cambridge University Press, 2005.

*Anan Gangopadhyay*  
Head, Department of History  
Sammilani Mahavidyalaya

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

## CC-9 : History of India (c 1526 – 1605)

### **I. Sources and Historiography:**

- a) Persian literary culture; translations; Vernacular literary traditions.
- b) Modern Interpretations

### **II. Establishment of Mughal rule:**

- a) India on the eve of Babur's Invasion
- b) Fire arms, military technology and warfare
- c) Humayun's struggle for empire
- d) Sher Shah and his administrative and revenue reforms

### **✓ III. Consolidation of Mughal rule under Akbar:**

- a) Campaigns and conquests: tactics and technology
- b) Evolution of administrative institutions : Zabt, Masnab, Jagir, Madad-I-Maash
- c) Revolts and resistance

### **IV. Expansion and Integration:**

- a) Incorporation of Rajputs and other indigenous groups in Mughal nobility.
- b) North-West frontier, Gujarat and the Deccan
- c) Conquest of Bengal

### **V. Rural Society and Economy:**

- a) Land rights and revenue system; Zamindars and Peasants; rural tensions
- b) Extension of agriculture; agricultural production; crop patterns
- c) Trade routes and patterns of internal commerce; overseas trade; rise of Surat

### **VI. Political and religious ideals:**

- a) Inclusive political ideas: theory and practice
- b) Religious tolerance and Sulh-i-kul; Sufi mystical and intellectual interventions
- c) Pressure from the Ulama

### **Readings**

For readings – see the listing given in Paper -10

*Ranavi Gangopadhyay*

Head, Department of History  
Sammilani Mahavidyalaya

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

## CC-10: History of India (c 1605 – 1750s)

**I. Sources: Persian and vernacular literary cultures, histories, memoirs and travelogues**

**II. Political Culture under Jahangir and Shah Jahan**

- a) Extension of Mughal rule; changes in Mansab and Jagir systems; imperial culture
- b) Orthodoxy and syncretism – Naqshbandi Sufis, Miyan Mir, Dara Shukoh, Samrad

**III. Mughal Empire under Aurangzeb**

- a) State and religion under Aurangzeb; issues in the war of succession; policies regarding religious groups and institutions
- b) Conquests and limits of expansion
- c) Beginning of the crisis: contemporary perceptions; agrarian and Jagir crises; revolts.

**IV. Visual Culture: Paintings and Architecture**

**V. Patterns of Regional Politics:**

- a) Rajput political culture and state formation
- b) Deccan kingdoms; emergence of the Marathas; Shiva; expansion under the Peshwas
- c) Mughal decline; emergence of successor states
- d) Interpreting eighteenth century India: recent debates

**V. Trade and Commerce**

- a) Crafts and technologies; Monetary system
- b) Markets, transportation, urban centres
- c) Indian Ocean trade network

### Essential Readings

Alam Muzaffar and Subramaniam Sanjay , eds., The Mughal state, 1526-1750  
Ali Athar M., The Mughal Nobility under Aurangzeb  
Chandra Satish, Essays on Medieval Indian History  
Dasgupta Ashin, Indian Merchants and the Decline of Surat, 1700 – 1750  
Gordon Stewart, The Marathas 1600 – 1818  
Habib Irfan, Agrarian System of Mughal India, 1526 – 1701  
Koch Ebba, Mughal Art and Imperial Ideology  
Qanungo, K.R, Dara Shukoh  
Richards, J.F, The Mughal Empire  
Rizvi, S.A.A, Muslim Revivalist Movements in Northern India.

### Suggested Readings

Alam, Muzaffar-The Crisis of Empire in Mughal North India: Awadh and Punjab-1707-1748.  
Alavi, Seema (ed.), The Eighteenth Century in India  
Ali, M. Athar, Mughal India: Studies in Polity, Ideas, society and Culture.  
Arasaratnam S., Maritime India in the Seventeenth Century  
Asher Catherine, Architecture of Mughal India  
Bandyopadhyaya S, From Plassey to Partition  
Barnett, R.B, North India between Empires: Awadh, the Mughals and the British.  
Bashir, Ahmed, Akbar, the Mughal Emperor.  
Bayly, Susan, Caste, Society and Politics in India from the 18th century to the modern age.  
Bayly, C.A., Indian Society and the Making of the British Empire;  
Beach Milo, Mughal and Rajpur Paintings

  
Head, Department of History  
Sammilani Mahavidyalaya

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

## CC-13 : History of India (c. 1857 – 1964)

### **I. Cultural changes and Social and Religious Reform Movements:**

- a) Growth of a new intelligentsia – the Press and Public Opinion
- b) Reform and Revival : Brahma Samaj, Prarthna Samaj, and Ramakrishna and Vivekananda, Arya Samaj, Wahabi, Deoband, Aligarh and Singh Sabha Movements.
- c) Debates around gender
- d) Making of religious and linguistic identities
- e) Caste : Sanskritising and anti Brahminical trends

### **II. Nationalism : Trends up to 1919**

- a) Formation of early political organizations
- b) Moderates and extremists
- c) Swadeshi movement
- d) Revolutionaries

### **III. Gandhian nationalism after 1919 : Ideas and Movements:**

- a) Mahatma Gandhi : his Perspectives and Methods
- b) i) Impact of the First World War
- ii) Rowlatt Satyagraha and Jalianwala Bagh
- iii) Non-Cooperative and Civil Disobedience
- iv) Provincial Autonomy, Quit India and INA
- c) Left wing movements
- d) Princely India : States people movements

### **IV. Nationalism and Social Groups : Interfaces:**

- a) Landlords, Professionals and Middle Classes
- b) Peasants
- c) Tribals
- d) Labours
- e) Dalits
- f) Women
- g) Business groups

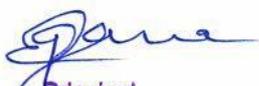
### **V. Communalism : Ideologies and practices, RSS, Hindu Maha Sabha, Muslim League**

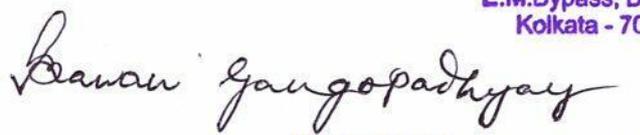
### **VI. Independence and Partition**

- a) Negotiations for independence and partition
- b) Popular movements
- c) Partition riots

### **VII. Emergence of a New State:**

- a) Making of the Constitution
- b) Integration of princely states
- c) Land reform and beginnings of planning
- d) The Nehru years.

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

  
Head, Department of History  
Sammilani Mahavidyalaya

## CC-14 : History of World Politics: 1945-1994

- I. The Cold War: Weakening of European balance of power: Origins of The Cold War: Yalta and Potsdam Conferences; End of wartime alliance.
- II. The USA in World Politics: Truman Doctrine, Marshall Plan, NATO.
- III. The USSR in World Politics: Molotov Plan, COMECON and Cominform; Sovietisation of Eastern Europe; Berlin Blockade; Warsaw Pact.
- IV. Manifestation of Cold War: The Korean Crisis- End of French Colonial rule in Indo-China and the Vietnam War – **Cuban Crisis.**
- V. De-Stalinisation; Thaw in Cold War; Détente and road to the ending of Cold War.
- VI. Disintegration and Decline of the Soviet Union – Glasnost and Perestroika – Crisis of Socialist regimes in other East European Countries: Poland, Germany, Czechoslovakia, Hungary – Response of the USA; Rise of a Unipolar World system, Globalization.
- VII. Emergence of the People's Republic of China – China and the USA – Sino-Soviet rift.
- VIII. West Asian Crisis – Palestine and Western Powers – Birth of Israel – Arab-Israel Conflict –The Suez Crisis (1956); Origin and Formation of PLO; Yom Kippur War(1973) ; Camp David Accord(1979); Oslo Peace Accord(1993).
- IX. Decolonization: The African Case Study: Ghana, Algeria, Congo, Kenya.
- X. Protest Politics: Civil Rights Movement, Anti-Apartheid Movement and the end of Apartheid (1994), Second Wave Feminist Movement.

### Selected Readings

Asa Briggs and Patricia Clavin, Modern Europe 1789 – Present, Delhi, 2009.

Peter Calvocoressi, World Politics 1945 – 2000, New Delhi, 2006.

Edward Crankshaw, The New Cold War : Moscow vs. Peking, Penguin Books, 1963.

Issac Dentscher, Russia, China, and the West, Penguin Books, 1949.

Eric Hobsbawm, The Age of Extremes : The Short Twentieth Century, London, 1994.

Eric Hobsbawm, Globalisation, Democracy and Terrorism, London, 2007.

Henry Heller, The Cold War and the New Imperialism, New York, 2007.

Wayne C. Mcwilliam and Harry Piotrowsky, The World since 1945: A History of International Relations, New Delhi, 2018.

Andreas Wenger and Doron Zimmermann, International Relations From the Cold War to the Globalized World, New Delhi, 2010.

John Merriman, A History of Modern Europe From Renaissance to the Present, London, 1996.

*Banan Gangopadhyay*  
Head, Department of History  
Sammilani Mahavidyalaya

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

Schuramann Franz and Schell Orville (eds.), China Readings, 2 Volumes, (Imperial China, and Republican China) Penguin; First edition 1967  
Schwartz Benjamin I., Mao and the Rise of Chinese Communism. Stanford, Stanford University Press,. 1951.  
Sheng Hu, Imperialism and Chinese Politics. Foreign Languages Press, 1981  
The Yi Ho Tuan Movement, The Revolution of 1911, Foreign Language Press, Beijing.  
Tse Tung Chow, The May Fourth Movement: Intellectual Revolution in Modern China. Stanford University Press: Stanford, 1967  
Wright Mary C., China in Revolution : The First Phase, 1900 – 1913. New Haven: Yale University Press, 1968  
Yu-teng Ssu and K. Fairbank John , China's Response to the West. Cambridge: Harvard University Press, 1954

চৌধুরী দেবপ্রসাদ-আধুনিক যুগে পূর্ব এশিয়ার সংক্ষিপ্ত ইতিহাস, পশ্চিমবঙ্গ রাজ্য পুস্তক পর্ষদ,, কলকাতা, ১৯৮৬

ভট্টাচার্য অমিত- চীনের রূপান্তরের ইতিহাস, ১৮৪০-১৯৮৯, কলকাতা, ২০০৪

চট্টোপাধ্যায় হরপ্রসাদ, চীনের ইতিহাস, কলকাতা, ১৯৮৮

সেন জহর, এ যুগের চীনকথা, কলকাতা, ২০০৭

## Paper 6 DSE-B-3 SEM -6: History of Modern East Asia – II Japan (c.1868 – 1945)

### I) Transition from feudalism to capitalism:

- a) Crisis of Tokugawa Bakuhau system
- b) Meiji Restoration : Its nature and Significance
- c) Political Reorganization
- d) Military Reforms

*Sanam Gangopadhyay*  
Head, Department of History  
Sammilani Mahavidyalaya

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

- e) Social, cultural and educational reforms (Bunmeikaika)
- f) Financial reforms and educational development in the 'Meiji' era
- g) Meiji Constitution

## II) Japanese Imperialism

- a) China
- b) Manchuria
- c) Korea

## 3) Democracy and Militarism / Fascism

- a) Popular/ People's Rights Movement
- b) Nature of political parties
- c) Rise of Militarism-Nature and significance
- d) Second World War; American occupation
- e) Post-War Changes

## Essential Readings

Allen George, A Short Economic History of Modern Japan. Psychology Press, 2003  
 Beasley G., The Modern History of Japan. Weidenfeld & Nicolson, 1963  
 Beckman George M, Modernization of China and Japan. Joanna Cotler Books , 1962  
 Beckman George M, The Making of the Meiji Constitution . Praeger; New edition 1975  
 Fairbank John K., et al, East Asia: Modern Transformation. London : Allen & Unwin,1965  
 Jansen M B (ed), The Cambridge History of Japan Vols. I and II  
 Livingstone Jon, et al., The Japan Reader (Imperial Japan : 1800 – 1945), Vol.I Pantheon, 1974  
 Mikiso Hane, Modern Japan: A Historical Survey. Westview Press, 4th edition 2008  
 Norman E.H, Japan's Emergence as a Modern State. Greenwood Press, 1973  
 Peffer Nathaniel, The Far East: A Modern History. University of Michigan Press, 1968 -  
 Pyle Kenneth B., The Making of Modern Japan. D.C. Heath, 1996  
 Storry Richard, A History of Modern Japan Penguin Books, 1991  
 Vinacke H, A History of the Far East in Modern Times 1928

চৌধুরী দেবপ্রসাদ-আধুনিক যুগে পূর্ব এশিয়ার সংক্ষিপ্ত ইতিহাস, পশ্চিমবঙ্গ রাজ্য পুস্তক পর্ষদ,  
 কলকাতা, ১৯৮৬  
 ভট্টাচার্য অমিত- জাপানের রূপান্তরের ইতিহাস, ১৬০০-১৯৪৫, কলকাতা, ২০০৫  
 চট্টোপাধ্যায় হরপ্রসাদ, জাপানের ইতিহাস, কলকাতা, ১৯৮৬  
 গুহরায় সিদ্ধার্থ, - আধুনিক পূর্ব এশিয়ার ইতিহাস: চীন ও জাপানের ইতিহাস, কলকাতা, ১৯৯৬

## Paper 7 DSE-A-2 SEM -5: History of United States of America – I (c.1776 – 1945)

### I. The Background:

The land and indigenous people: settlement and colonization by Europeans; early colonial society and politics; indentured labour- White and Black.

### II. Making of the Republic:

a) Revolution : Sources of conflict : Revolutionary groups, Ideology: The War of Independence and its historical interpretations

*Kanani Gangopadhyay*

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



# UNIVERSITY OF CALCUTTA

GURUPADA SAREN

SECRETARY

COUNCILS FOR UNDERGRADUATE STUDIES,  
UNIVERSITY OF CALCUTTA.

SENATE HOUSE

Kolkata - 700 073.

Phone : 2241-0071-74,  
2241-0077-78, 2241-4989-90,  
2241-2850-51, 2241-2859

Fax : 91-033-2241-3222

E-mail : [u.g.councilsc.u@gmail.com](mailto:u.g.councilsc.u@gmail.com)

Website : [www.caluniv.ac.in](http://www.caluniv.ac.in)

Ref.No : CUS/237(cir.)/18  
Dated the 25<sup>th</sup> April 2018

To  
The Principals/T.I.C.  
of all the Undergraduate Colleges  
offering B.A. in Philosophy( Honours & General)  
affiliated to the University of Calcutta

Sir/Madam,

The undersigned is to inform you that the proposed revised semesterised draft Syllabus for **Philosophy (Honours & General)** Courses of Studies under CBCS has been uploaded in the Calcutta University website ([www.caluniv.ac.in](http://www.caluniv.ac.in)).

The said syllabus has been prepared by the U.G. Board of Studies in Philosophy, C.U., suppose to be implemented from the academic session 2018-2019

You are requested kindly to go through it and send your feedback within 5<sup>th</sup> May, 2018.

In this regard you may send your observation/ suggestion to the Department of U.G. Councils, C.U. or through email ([u.g.councilsc.u@gmail.com](mailto:u.g.councilsc.u@gmail.com)), and you also may contact Prof. Manidipa Sanyal, Department of Philosophy, C.U. through e-mail ([smanidipa@yahoo.co.in](mailto:smanidipa@yahoo.co.in)).

Your cooperation in this regard will be highly appreciated. Kindly treat the matter as urgent.

Thanking you,

Yours faithfully,

Secretary

Department of Philosophy  
Sammilani Mahavidyalaya  
Baghajatin, Kolkata-700 094

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

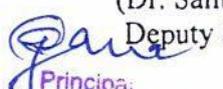
### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

  
Department of Philosophy  
Sammilani Mahavidyalaya  
Baghajatin, Kolkata-700 094

  
(Dr. Santanu Paul)  
Deputy Registrar  
  
Principal,  
Sammilani Mahavidyalaya  
E.M.Bypass, Baghajatin  
Kolkata - 700 094

- Gitanibandha: Sri Aurobindo
- Śrīmadbhagavadgīta: Swami Jagadiswarananda( Tran.)
- 

## Semester 6

**PHI-A-DSE-A(2)** (Any one from the following options)

### a) Western Logic – II(6 Credits per week)

- 1) H.W.B. Joseph: An Introduction to Logic [Ch.s II & IV]  
[Terms and their principal distinctions, The Predicables]
- 2) H.W.B. Joseph: An Introduction to Logic [Ch. V]  
[The Rules of Definition and Division: Classification and Dichotomy]

### Suggested Readings:

#### English:

- Copi, I.M., Symbolic Logic

#### Bengali:

- Sanketik Yuktivijnan (Vakyakalan O Vidheyakalan): Ramaprasad Das
- Sabdajijnasa-Sabder Prakar o Prakriti: Ramaprasad Das
- Yukhtivaijnani Paddhati: Ramaprasad Das
- Samsad Yuktivijnan Abhidhan: Ramaprasad Das o Subirranjan Bhattacharya

### b) Applied ethics (6 Credits per week)

1. Nature and scope of applied ethics.
2. Killing: Suicide, Euthanasia, Animal killing.
3. Poverty, Affluence and Morality.
4. War and Violence: Terrorism.
5. Right: Nature and Value of Human Rights—Discrimination on the basis of race, caste and religion.
6. The Ethics of Care.
7. Value beyond sentient beings, Reverence for life, Deep Ecology, Concepts of Kinship Ethics.
8. Ecological Concern in Indian thoughts: Jaina and Buddha views.

### Suggested Readings:

#### English:

- Ethics-The Fundamentals: Julia Driver
- Ethics-Theory and Practice: J. Thiroux (Chs II & III)
- Ethics-Theory and Practice: Y.V. Satyanaryana
- Moral Reasons: J. Nuttal
- Moral Reasons: James Rachels

*Ranjit Saha*

Department of Philosophy  
Sammilani Mahavidyalaya  
Baghajatin, Kolkata-700 094

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

- Nabya Yuktibijnana (Pratham theke caturtha khanda): Ramaprasad Das
- Sanketik Yuktibijnana: Ramaprasad Das
- Samsad Yuktibijnana Abhidhan: Ramaprasad Das O Subirranjan Bhattacharya

### Core Course

### PHI-A-CC-10-Epistemology and Metaphysics (Western) (6 Credits per week)

- Concepts, Truth
- Sources of Knowledge
- Some Principal uses of the verb "To know", Conditions of Propositional Knowledge, Strong and weak senses of "know"
- Analytic truth and logical possibility
- The a priori
- The Problem of Induction
- Cause and Causal Principles
- Realism, Idealism
- Phenomenalism
- Substance and Universal

### Suggested Readings:

#### English:

- An Introduction to Philosophical Analysis—John Hospers
- The Problem of Knowledge: A.J. Ayer
- Language, Truth and Logic: A.J. Ayer
- Readings in Philosophical Analysis: J. Hospers
- The Central Questions of Philosophy: A.J. Ayer
- Theory of Knowledge: A.J. Woozley
- An Introduction to Philosophy: Shibapada Chakraborty

#### Bengali:

*Ranit Saha*  
Department of Philosophy  
Sammilani Mahavidyalaya  
Baghajatin, Kolkata-700 094

- Darshanik Jijnasa (Bagarthatattva): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva-Jnaner Svarup): Ramaprasad Das
- Darshanik Jijnasa (Jnanatattva): Ramaprasad Das
- Darshanik Jijnasa (Paratattva O Bhauto Jagater Jnana): Ramaprasad Das
- Darshanik Bishlesaner Ruparekha (Pratham O dvitiya khanda): Samarikanta Samanta
- Paschatya darshaner Ruparekha: Ramaprasad Das O Shibapada Chakraborty

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

### SEMESTER 5



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

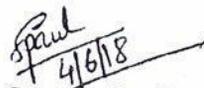
### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

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

  
(Dr. Santanu Paul)  
Deputy Registrar

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

## List of Core Courses

- 1 – Understanding Political Theory: Concepts
- 2 - Understanding Political Theory: Approaches and Debates
- 3 - Constitutional Government in India
- 4 – Politics in India: Structures and Processes
- 5 – Indian Political Thought – I
- 6 - Comparative Government and Politics
- 7 – Perspectives on International Relations
- 8 - Indian Political Thought – II
- 9 – Global Politics since 1945
- 10 – Western Political Thought & Theory I
- 11 – Western Political Thought & Theory II
- 12 - Political Sociology
- 13 – Public Administration: Concepts and Perspectives
- 14 – Administration and Public Policy in India

[Semester-level break-up provided below]

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

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

Final Draft BA (Honours)-CBCS Syllabus in Political Science, 2018  
(Section I)

**Core Courses**

[Fourteen courses; Each course: 6 credits (5 theoretical segment+ 1 for tutorial-related segment). Total: 84 credits (1400 marks).

- ◆ Each course carries 80 marks<sup>^^</sup> (plus 10 marks each for Attendance and Internal Assessment).
- ◆ Minimum 30 classes for Theory and 15 contact hours for Tutorial per module.

^End Semester Assessment for each course--- 65 marks for theoretical segment: 50 marks for subjective/descriptive questions + 15 marks for category of 1 mark-questions. Question Pattern for subjective/descriptive segment of 50 marks: 2 questions (within 100 words; one from each module) out of 4 (10 x 2 = 20) + 2 questions (within 500 words; one from each module) out of 4 (15 x 2 = 30).

✓<sup>^^</sup>15 marks for tutorial-related segments as suggested below (any one item from each mode):

i) Written mode: upto 1000 words for one Term Paper/upto 500 words for each of the two Term Papers/ equivalent Book Review/equivalent Comprehension/equivalent Quotation or Excerpt Elaboration.

ii) Presentation Mode: Report Presentation/Poster Presentation/Field work--- based on syllabus-related and/or current topics (May be done in groups)[The modes and themes and/or topics are to be decided by the concerned faculty members of respective colleges.]

- ◆ Core courses: First 2 each in Semesters 1 and 2; Next 3 each in Semesters 3 and 4; 2 each in Semesters 5 and 6. [Sequentially arranged]

**IMPORTANT NOTES:**

- ◆ The Readings provided below include many of those of the UGC Model CBCS Syllabus in Political Science. For further details of Course Objectives and additional references it is advised that the UGC model CBCS syllabus\* concerning relevant courses and topics be provided due importance and primarily consulted.  
\*Website: BA Political Science (Honours): [https://www.ugc.ac.in/pdfnews/2085906\\_B.A-Hons.-Pol-Science.pdf](https://www.ugc.ac.in/pdfnews/2085906_B.A-Hons.-Pol-Science.pdf)
- ◆ Cited advanced texts in Bengali are not necessarily substitutes, but supplementary to the English books.
- ◆ Paper Code Format: Subject-Course-Semester-Paper Number-Paper Component.
- ◆ The format is strictly subject to the parameters of the common structural CBCS format of the University.

## Semester I

### **Understanding Political Theory: Concepts** Code: PLS-A-CC-1-1-TH+TU

#### **Module I:**

1. Conceptualising politics: meaning of *political*.
2. Key concepts I: State; Nation; Sovereignty (evolution); Power and Authority--- types and linkages;
3. Key concepts II: Law, Liberty, Equality--- interrelationships.

#### **Module II:**

4. Key concepts III: Rights; Justice (with special reference to Rawls); Freedom.
5. Key concepts IV: Democracy (with special reference to David Held); Authoritarianism.
6. Key concepts V: Citizenship.

#### **Readings:**

- Bhargava, R. (2008) 'What is Political Theory' in Bhargava, R and Acharya, A. (eds.) Political Theory: An Introduction. pp. 2-16.
- Bellamy, R. (1993) 'Introduction: The Demise and Rise of Political Theory', in Bellamy, R. (ed.) Theories and Concepts of Politics. New York: Manchester University Press, pp. 1-14.
- Glaser, D. (1995) 'Normative Theory', in Marsh, D. and Stoker, G. (eds.) Theory and Methods in Political Science. London: Macmillan, pp. 21-40.
- D. Held: Political Theory Today.
- D. Held: Models of Democracy.
- N. Daniels: Reading Rawls.
- Andrew Heywood: The Basic Political Concepts.
- S. Ramaswamy: Political Theory--- Ideas and Concepts.
- S.P. Verma: Modern Political Theory.
- T. Ball and R. Bellamy: Twentieth Century Political Thought.
- R. Bellamy: Theories and Concepts in Politics: An Introduction.
- C. McKinnan: Issues in Political Theory.
- Menon, Krishna. (2008) 'Justice', in Bhargava, Rajeev and Acharya, Ashok. (eds.) Political Theory: An Introduction, pp. 74-86.

### **Understanding Political Theory: Approaches and Debates** Code: PLS-A-CC-1-2-TH+TU

#### **Module I:**

1. Approaches I: Normative; Legal-Institutional; Empirical-Behavioural---Systems Analysis; Structural Functionalism.
2. Approaches II: Liberalism; Social Welfareism; Neo-Liberalism.
3. Approaches III: Postcolonial; Feminist.

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

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

## Module II:

4. Marxian approach--- Dialectical Materialism and Historical Materialism.
5. Key ideas: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.
6. Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao. Hegemony and Civil Society: Gramsci.

## Readings:

- K. Marx and F. Engels: The Communist Manifesto.  
V. I. Lenin: The State.  
John Gray: Liberalism.  
David McLellan: The Thought of Karl Marx.  
David McLellan: Marxism after Marx.  
Tom Bottomore ed.: A Dictionary of Marxist Thought.  
D. Riaznov ed.: The Communist Manifesto of Marx and Engels.  
M Cornforth: Dialectical Materialism.  
R. Miliband: Marxism and Politics.  
Laszek Kolakowski: Main Currents of Marxism (3 volumes).  
Ravi Kumar: Contemporary Readings in Marxism.  
Kymlicka: Multiculturalism.  
Marxist Internet Archive: [www.marxist.org](http://www.marxist.org)  
Gurpreet Mahajan: The Multicultural Path.  
R. Young: Postcolonialism: A Very Short Introduction.  
Richard Bellamy: Citizenship: A Very Short Introduction.  
Margaret Walters: Feminism: A Very Short Introduction.  
Arpita Mukhopadhyay: Feminisms.

For Courses I and II:

- কার্ল মার্ক্স ও ফ্রিডরিশ এঙ্গেলস রচনা সংকলন  
লেনিন নির্বাচিত রচনাবলী (বড়ো থণ্ড)  
টম বটমোর: মার্ক্সীয় সমাজতন্ত্র (অনুবাদ: হিমাংশু ঘোষ)  
দীপক কুমার দাস (সম্পাদিত): রাজনীতির তত্ত্বকথা (২ খণ্ড)  
শোভনলাল দত্তগুপ্ত : মার্ক্সীয় রাষ্ট্রচিন্তা (২০০৬ সং)  
ভোলানাথ বন্দ্যোপাধ্যায় : মরিস কর্নফোর্থ: দ্বন্দ্বমূলক বস্তুবাদ (অনুবাদ)  
চৈতালি বসু: রাজনীতিশাস্ত্র ও অভিজ্ঞতাবাদী রাষ্ট্রতন্ত্র  
রাজশ্রী বসু ও বাসবী চক্রবর্তী (সম্পা): প্রসঙ্গ মানবীবিদ্যা  
অশোক সরকার: রাষ্ট্রবিজ্ঞান অভিধান  
শোভনলাল দত্তগুপ্ত, রতন খাসনবিশ, সৌরীন ভট্টাচার্য: উত্তর-উপনিবেশবাদ ও মার্ক্সবাদ  
দেবারতি সেনগুপ্ত ও পারমিতা ব্যানার্জি: পিতৃতন্ত্র কাহাকে বলে (কমলা ভাসিনের What is Patriarchy-র অনুবাদ)

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

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

## Semester IV

### **Indian Political Thought II** Code: PLS-A-CC-4-8-TH+TU

#### **Module I:**

1. M.N. Roy: Radical Humanism.
2. Narendra Deva, Ram Manohar Lohia, Jayaprakash Narayan: Socialist ideas
3. Syed Ahmed Khan and Iqbal: views on colonialism and nationalism.

#### **Module II:**

4. Nehru: views on Socialism and Democracy. Subhas Chandra Bose: views on Socialism and Fascism.
5. Contested notions of 'nation'--- Savarkar, Jinnah.
6. Jyotiba Phule and Ambedkar on caste system and untouchability. Pandita Ramabai's views on social justice

#### **Readings:**

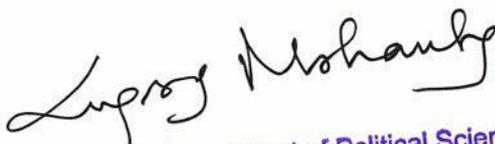
- V. R. Mehta and T. Pantham (eds.), 'A Thematic Introduction to Political Ideas in Modern India: Thematic Explorations, History of Science, Philosophy and Culture in Indian civilization, Vol. 10, Part: 7, pp. xxvii-ixi.
- V. Mehta and Th. Pantham (eds.), Political ideas in modern India: Thematic Explorations
- S. Hay (ed.), Sources of Indian Tradition, Vol. 2. Second Edition.
- T. Pantham and K.L. Deutsch: Political Thought in Modern India.
- Sumit Sarkar: Modern India.
- Bipan Chandra: Nationalism and Colonialism in Modern India.
- A. Parel, (ed.), 'Introduction', in Gandhi, freedom and Self Rule
- D. Dalton, (1982) 'Continuity of Innovation', in Indian Idea of Freedom: Political Thought of Swami Vivekananda, Aurobindo Ghose, Rabindranath Tagore and Mahatma Gandhi.
- J. Nehru: Discovery of India.
- B. Zachariah, Nehru.
- S. Thorat and Aryana eds.: Ambedkar in Retrospect.
- J. Sharma, (2003) Hindutva: Exploring the Idea of Hindu Nationalism
- Y. Meherally ed.: Narendra Deva: Socialism and National Revolution.
- Ramchandra Guha: India after Gandhi.
- Uma Chakrabarti: Rewriting History: The Life and Times of Pandita Ramabai.
- B. K. Bhattacharya ed., Salient Ideas of Rammonohar Lohia.
- Bidyut Chakrabarty and R.K. Pandey: Modern Indian Political Thought--- Text and Context.

### **Global Politics since 1945** Code: PLS-A-CC-4-9-TH+TU

#### **Module I:**

1. Cold War and its evolution: outline. Emergence of Third World: NAM; Pan Africanism. Post-Cold War world: overview. Globalization: conceptions and perspectives.
2. Europe in transition: European Union, Brexit (overview).
3. Major institutions of global governance: World Bank, IMF, WTO--- overview. Major regional organizations: ASEAN, OPEC, SAFTA, SAARC and BRICS. West Asia and the Palestine question.

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

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

## Module II:

4. India and her neighbours I: Pakistan; Bangladesh.

5. India and her neighbours II: Nepal; Bhutan; Sri Lanka.

6. UNO: background; Major organs--- General Assembly, Security Council and Secretariat (with focus on Secretary General). Role of UNO in peace-keeping, human rights, and development (Millennium Development Goals and Sustainable Development Goals).

## Readings:

P. Calvocoressi: World Politics since 1945 (latest edition).

R. Mansbach and K. Taylor, (2012) Introduction to Global Politics

J. Baylis and S. Smith (eds), The Globalization of World Politics: An Introduction to International Relations.

G. Ritzer: Globalization--- A Basic Text.

J.A. Moore, Jr. and J. Pubantz: The New United Nations.

S. Juyal and B. Ramesh Babu: The United Nations and World Peace.

K. Bajpai and H.C. Shukul eds.: Interpreting World Politics.

J. Baylis and S. Smith: The Globalization of World Politics.

L.M. Goodriche: The UN in Changing World.

M.S. Rajan: Essays in Non-Alignment and UN.

Alvin Y. So: Development and Social Change.

J. Haynes: Third World Politics.

Ankie Hoogvelt: Globalization and the Postcolonial World

N.O. Sullivan ed.: Terrorism, Ideology and Revolution.

D. Nayyar: Governing Globalization.

G. Ritzer: Globalization--- A Basic Text.

S.D. Muni: Responding to Terrorism in South Asia.

Peter Burnel: Politics in the Developing World.

B.C. Smith: Understanding Third World Politics.

Björn Hettne: Development Theory and the Three Worlds.

রাধারমণ চক্রবর্তী ও সুকল্পা চক্রবর্তী: সমসাময়িক আন্তর্জাতিক সম্পর্ক

পুরুষোত্তম ভট্টাচার্য ও অনিন্দ্যজ্যোতি মজুমদার (সম্পা.): আন্তর্জাতিক সম্পর্কের রূপরেখা

গৌতম বসু: আন্তর্জাতিক সম্পর্ক: তত্ত্ব ও বিবর্তন

অনীক চট্টোপাধ্যায়: ঠাণ্ডায়ুদ্ধের পর আন্তর্জাতিক সম্পর্ক

## WESTERN POLITICAL THOUGHT AND THEORY I

Code: PLS-A-CC-4-10-TH+TU

### Module I:

1. Greek political thought: main features – Plato: justice, communism – Aristotle: state, classifications of constitutions.

2. Roman political thought: theories of Law and Citizenship – contributions of Roman thought.

3. Medieval political thought in Europe: major features.

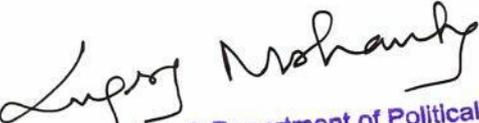
4. Contribution of Machiavelli. Significance of Renaissance. Political thought of Reformation.

### Module II:

5. Bodin: Idea of Sovereignty.

6. Hobbes: founder of science of materialist politics.

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

  
Head, Department of Political Science  
Sammilani Mahavidyalaya

# Science

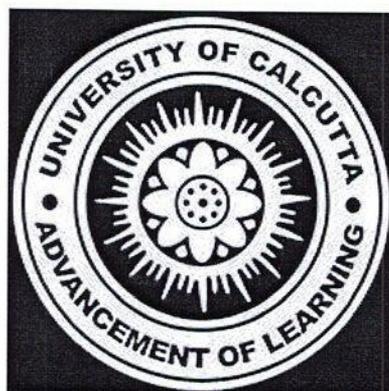
  
Principal  
Sammilani Mahavidyalaya  
E.M. Bypass, Baghajatin  
Kolkata - 700 094

**COURSE CURRICULUM UNDER CHOICE  
BASED CREDIT SYSTEM**

**SYLLABUS**

**FOR**

**BACHELOR  
IN CHEMISTRY (HONOURS)**



**UNIVERSITY OF CALCUTTA**

1

*Shefali Pal*

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

HEAD  
DEPT OF CHEMISTRY  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

## Course Structure

### Course Credits

Theory+ Practical

---

#### Core Course (CC)

Theory (14 Papers of 4 credits each)  $14 \times 4 = 56$

Practical (14 Papers of 2 credits each)  $14 \times 2 = 28$

#### Discipline Specific Elective Course\* (DSE)

Theory (4 Papers of 4 credits each)  $4 \times 4 = 16$

Practical (4 Papers of 2 credits each)  $4 \times 2 = 8$

#### Generic Elective (GE)

Theory (4 Papers of 4 credits each)  $4 \times 4 = 16$

Practical (4 Papers of 2 credits each)  $4 \times 2 = 8$

#### Ability Enhancement Compulsory Course (AECC)

(2 Papers of 2 credits each)  $2 \times 2 = 4$

Environmental Science

English/MIL Communication

#### Skill Enhancement Elective Course (SEC)

(2 Papers of 2 credits each)  $2 \times 2 = 4$

**Total credit 140**

\*Optional Dissertation or project work in place of one  
Discipline Specific Elective paper (6 credits) in 6<sup>th</sup> Semester

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



HEAD  
DEPT OF CHEMISTRY  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

**Discipline Specific Courses (DSE)**  
**For Semester 5**

Any One from the following

**DSE-A1: MOLECULAR MODELLING & DRUG DESIGN**

**DSE-A2: APPLICATIONS OF COMPUTERS IN CHEMISTRY**

Any One from the following

**DSE-B1: INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE**

**DSE-B2: NOVEL INORGANIC SOLIDS**

**For Semester 6**

Any One from the following

**DSE-A3: GREEN CHEMISTRY AND CHEMISTRY OF NATURAL PRODUCTS**

**DSE-A4: ANALYTICAL METHODS IN CHEMISTRY**

Any One from the following

**DSE-B3: POLYMER CHEMISTRY**

**DSE-B4: DISSERTATION**

**SKILL ENHANCEMENT COURSES (SEC)**

**SEC-A For Semester 3 [Any one]**

**SEC 1 – MATHEMATICS AND STATISTICS FOR CHEMISTS**

**SEC 2 – ANALYTICAL CLINICAL BIOCHEMISTRY**

**SEC-B For Semester 4 [Any one]**

**SEC 3 – PHARMACEUTICALS CHEMISTRY**

**SEC 4 - PESTICIDE CHEMISTRY**

*Shefali Pal*

HEAD  
DEPT OF CHEMISTRY  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

## DSE B-4 : Dissertation

(Credits: 06)

In a total of 105 lecture hours, a student has to carry out research /review on a topic as assigned by the respective college. A project report and digital presentation will be required for the assessment of the student at the end of the semester.

## SKILL ENHANCEMENT COURSES

### SEC-A [SEMESTER 3]

#### SEC 1 – Mathematics and Statistics for Chemists

(Credits: 2 Lectures: 30)

1. Functions, limits, derivative, physical significance, basic rules of differentiation, maxima and minima, applications in chemistry, Error function, Gamma function, exact and inexact differential, Taylor and McLaurin series, Fourier series and Fourier Transform, Laplace transform, partial differentiation, rules of integration, definite and indefinite integrals. (08 Lectures)

#### 2. Differential

equations: Separation of variables, homogeneous, exact, linear equations, equations of second order, series solution method.

(04 Lectures)

3. Probability: Permutations, combinations and theory of probability (03 Lectures)

4. Vectors, matrices and determinants: Vectors, dot, cross and triple products, introduction to matrix algebra, addition and multiplication of matrices, inverse, adjoint and transpose of matrices, unit and diagonal matrices.

(04 Lectures)

#### 5. Qualitative and quantitative aspects of analysis:

Sampling, evaluation of analytical data, errors, accuracy and precision, methods of their expression, normal law of distribution if indeterminate errors, statistical test of data; F, Q and t test, rejection of data, and confidence intervals.

(03 Lectures)

6. Analysis and Presentation of Data: Descriptive statistics. Choosing and using statistical tests. Chemometrics. Analysis of variance (ANOVA), Correlation and regression, fitting of linear equations, simple linear cases, weighted linear case, analysis



**UNIVERSITY  
OF  
CALCUTTA**

**SYLLABUS  
of  
Bachelor of Science (B. Sc.)  
(Honours)  
in  
Computer Science (CMSA)  
Choice Based Credit System (CBCS)  
2018**

**HEAD**  
DEPT OF COMPUTER SCIENCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

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

  
HEAD  
DEPT OF COMPUTER SCIENCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094  
Paul  
4/6/18  
(Dr. Santanu Paul)  
Deputy Registrar

## Computer Science (Honours) CMSA - CBCS Syllabus SEMESTER – V & VI

Semester	Courses	Topics	Credit
V	CMS-A-CC-5-11-TH (Core Course – 11) Theory	Data Base Management System (DBMS)	4
	CMS-A-CC-5-11-P (Core Course – 11) Practical	RDBMS Lab using My SQL & PHP	2
	CMS-A-CC-5-12-TH (Core Course – 12) Theory	Object Oriented Programming System (OOPs)	4
	CMS-A-CC-5-12-P (Core Course – 12) Practical	OOPs Lab using Java	2
VI	CMS-A-CC-6-13-TH (Core Course – 13) Theory	Software Engineering	4
	CMS-A-CC-6-13-P (Core Course – 13) Practical	Software Engineering Lab	2
	CMS-A-CC-6-14-TH (Core Course – 14) Theory	Theory of Computation	4
	CMS-A-CC-6-14-P (Core Course – 14) Practical	PROJECT	2
DSE-A	Discipline Specific Elective Courses- DSE-A Candidates have to opt any one topic either from DSE-A-1 or from DSE-A-2 in Semester-V & another topic either from DSE-A-3 or from DSE-A-4 in Semester-VI from the following courses		
	CMS-A-DSE-A-1-TH Discipl.Sp.Elec.DSEA1,Theory	Digital Image Processing	4
	CMS-A-DSE-A-1-P Discipl.Sp.Elec.DSEA1, Practical.	Image Processing Lab.	2
	CMS-A-DSE-A-2-TH Discipl.Sp.Elec.DSEA2,Theory	Data Mining & its Applications	4
	CMS-A-DSE-A-2-P Discipl.Sp.Elec.DSEA2, Practical.	Data Mining Lab.	2
	CMS-A-DSE-A-3-TH Discipl.Sp.Elec.DSEA3,Theory	Embedded Systems	4
	CMS-A-DSE-A-3-P Discipl.Sp.Elec.DSEA3, Practical.	Embedded Systems Lab.	2
	CMS-A-DSE-A-4-TH Discipl.Sp.Elec.DSEA4,Theory	Multimedia and its Applications	4
	CMS-A-DSE-A-4-P Discipl.Sp.Elec.DSEA4, Practical.	Multimedia and its Applications Lab.	2
DSE-B	Discipline Specific Elective Courses- DSE-B Candidates have to opt any one topic either from DSE-B-1 or from DSE-B-2 in Semester-V & another topic either from DSE-B-3 or from DSE-B-4 in Semester-VI from the following courses		
	CMS-A-DSE-B-1-TH Discipl.Sp.Elec.DSE-B-1,Theory	Operation Research (O.R.)	4
	CMS-A-DSE-B-1-P Discipl.Sp.Elec.DSE-B-1, Practical.	Operation Research (O.R.) Lab. using C/ Python	2
	CMS-A-DSE-B-2-TH Discipl.Sp.Elec.DSE-B-2,Theory	Programming using Python	4
	CMS-A-DSE-B-2-P Discipl.Sp.Elec.DSE-B-2, Practical.	Programming using Python	2
	CMS-A-DSE-B-3-TH Discipl.Sp.Elec.DSE-B-3,Theory	Introduction to Computational Intelligence	4
	CMS-A-DSE-B-3-P Discipl.Sp.Elec.DSE-B-3, Practical	Computational Intelligence Laboratory	
	CMS-A-DSE-B-4-TH Discipl.Sp.Elec.DSE-B-4, Theory	Advanced Java	4
CMS-A-DSE-B-4-P Discipl.Sp.Elec.DSE-B-4, Practical	Advanced Java Laboratory	2	

Equivalent Minimized Context Free Grammar –a) by the removing Grammar Variables which are not generating any terminal string, and b) by the removing Terminal Symbols which are not generating from the start symbol and c) by the removing null production and d) by the removing unit production, Definition and basic idea about Push Down Automaton

**Regular Expression:**

(15 hours)

Basic Idea and Definition, Regular Expression basic Identities, Arden's Theorem – Statement (without Proof) and application for reduction of equivalent regular expressions, Thompson's Construction Algorithm – Regular expression to Finite Automata conversion, State Transition System to Regular Expression conversion algorithm by Arden's Algebraic Method, FA to Regular Grammar and Regular Grammar to FA conversion algorithms and applications.

**Turing Machine:**

(15 hours)

Concepts of Turing Machine, Formal Definitions, Classifications – Deterministic and Non-Deterministic Turing Machines, Simple Design of Turing Machines like – Unary Adder, Subtractor, Concatenator, Odd / even count etc and concepts of Universal Turing Machines and Turing Computing, Difference and Similarities between Turing Machine and a General Purpose Computer, Definition and significant of Halting Problem in Turing Machine.

**CMS-A-CC-6-14-P: Project**

**Core Course-14:Practical:02Credit:40hours**

**Text/ Reference Books:**

1. Introduction to Automata Theory, Languages, and Computation by John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman, 3rd Edition, Pearson.
2. Theory of Computer Science (Automata, Languages & Computation) by K L P Misra & N Chandrasekharan, 3rd Edition, PHI.
3. Introduction to Theory of Computation by Micheal Sipser, 3rd Edition, Cengage Learning.
4. Switching and Finite Automata Theory by Zvi Kohavi, Niraj.K.Jha, 3rd Edition, TMH.
5. Formal Language and Automata, P. Linz, Narosa

**Discipline Specific Elective Course A: DSE-A:**

**Digital Image Processing/ Data Mining & its Applications/ Embedded Systems/ Multimedia and its Applications**

**CMS-A-DSE-A--1-TH: Digital Image Processing**

**DSE-A: Choice-1: Theory: 04 Credit: 60 hours**

**Introduction**

(05 hours)

Image definition and its representation, Pixels, Co-ordinate conventions, Image formats (Study of the image matrix), neighbourhood metrics, Sampling and quantization, Types of distance measure (concept only).



**CBCS Syllabus**  
**for**  
**Undergraduate Courses in Geography**

TO BE EFFECTIVE FROM THE ACADEMIC SESSION 2018-19

*Kamonasish Mukherjee*  
**Head**

Department of Geography  
Sammilani Mahavidyalaya  
Baghajatin Stn./E. M. Bypass  
Kolkata - 700 094



University of Calcutta  
May, 2018

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

*Kamoyasub Mukh*  
Head  
Department of Geography  
Sammilani Mahavidyalaya  
Baghajatin Stn./E. M. Bypass  
Kolkata - 700 094

*Paul*  
4/6/18  
Principal  
Sammilani Mahavidyalaya  
E.M.Bypass, Baghajatin  
Kolkata - 700 094  
(Dr. Santanu Paul)  
Deputy Registrar

## Choice Based Credit System (CBCS): Syllabus of Geography

**INTRODUCTION:** In compliance with recent directives from the University Grants Commission, the undergraduate syllabus for Geography is reframed into Choice Based Credit System largely following the model syllabus prepared by the West Bengal State Council of Higher Education.

The main objective of this new curriculum is to give the students a holistic understanding of the subject, putting equal weightage to the core content and techniques used in Geography. The syllabus tries to give equal importance to the two main branches of Geography: Physical and Human.

The principal goal of the syllabus is to enable the students to secure a job at the end of the undergraduate programme. Keeping this in mind and in tune with the changing nature of Geography, adequate emphasis is rendered on applied aspects of the subject such as emerging techniques of mapping and field-based data generation, especially in the honours course. The syllabus emphasises on development of basic skills of the subject, so that everyone need not go for higher studies in search of professional engagement or employment.

**LEARNING OUTCOMES:** This syllabus is designed to impart basic knowledge on geography as a spatial science and train the undergraduates to secure employment in the sectors of geospatial analysis, development and planning, mapping, and surveying.

## Contents

<b>1. Scheme for the CBCS Curriculum .....</b>	<b>5</b>
1.1 Credit Distribution across Courses: Honours Course .....	5
1.2 Credit Distribution across Courses: General Course .....	5
1.3 Suggested Mark-wise Class Distribution .....	5
1.4 Honours Course: Core Subjects .....	6
1.5 Honours Course: Choices for Four Discipline Specific Electives .....	6
1.6 Honours Course: Choices for Two Skill Enhancement Courses .....	6
1.7 General Course: Core Subjects .....	6
1.8 General Course: Choices for Two Discipline Specific Electives .....	7
1.9 General Course: Choices for Two Skill Enhancement Courses .....	7
1.10 Credits and Marks Distribution Scheme for CBCS Curriculum: Honours Course .....	8
1.11 Credits and Marks Distribution Scheme for CBCS Curriculum: General Course .....	10
<b>2. Honours Course: Core Subjects .....</b>	<b>12</b>
2.1 GEO-A-CC-1-01-TH – Geotectonics and Geomorphology .....	12
2.2 GEO-A-CC-1-01-P – Geotectonics and Geomorphology Lab .....	13
2.3 GEO-A-CC-1-02-TH – Cartographic Techniques .....	14
2.4 GEO-A-CC-1-02-P – Cartographic Techniques Lab .....	15
2.5 GEO-A-CC-2-03-TH – Human Geography .....	16
2.6 GEO-A-CC-2-03-P – Human Geography Lab .....	17
2.7 GEO-A-CC-2-04-TH – Thematic Mapping and Surveying .....	18
2.8 GEO-A-CC-2-04-P – Thematic Mapping and Surveying Lab .....	19
2.9 GEO-A-CC-3-05-TH – Climatology .....	20
2.10 GEO-A-CC-3-05-P – Climatology Lab .....	21
2.11 GEO-A-CC-3-06-TH – Hydrology and Oceanography .....	22
2.12 GEO-A-CC-3-06-P – Hydrology and Oceanography Lab .....	23
2.13 GEO-A-CC-3-07-TH – Statistical Methods in Geography .....	24
2.14 GEO-A-CC-3-07-P – Statistical Methods in Geography Lab .....	25
2.15 GEO-A-CC-4-08-TH – Economic Geography .....	26
2.16 GEO-A-CC-4-08-P – Economic Geography Lab .....	27
2.17 GEO-A-CC-4-09-TH – Regional Planning and Development .....	28
2.18 GEO-A-CC-4-09-P – Regional Planning and Development Lab .....	29
2.19 GEO-A-CC-4-10-TH – Soil and Biogeography .....	30

*Kamonaish Mukherjee*  
Head  
Department of Geography  
Sammilani Mahavidyalaya  
Baghajatin Stn./E. M. Bypass  
Kolkata - 700 094

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

2.20	GEO-A-CC-4-10-P – Soil and Biogeography Lab .....	31
2.21	GEO-A-CC-5-11-TH – Research Methodology and Fieldwork .....	32
2.22	GEO-A-CC-5-11-P – Research Methodology and Fieldwork Lab .....	33
2.23	GEO-A-CC-5-12-TH – Remote Sensing, GIS and GNSS .....	35
2.24	GEO-A-CC-5-12-P – Remote Sensing, GIS and GNSS Lab .....	36
2.25	GEO-A-CC-6-13-TH – Evolution of Geographical Thought .....	38
2.26	GEO-A-CC-6-13-P – Evolution of Geographical Thought Lab .....	39
2.27	GEO-A-CC-6-14-TH – Hazard Management .....	40
2.28	GEO-A-CC-6-14-P – Hazard Management Lab .....	41
<b>3.</b>	<b>Honours Course: Discipline Specific Electives .....</b>	<b>42</b>
3.1	GEO-A-DSE-A-5-01-TH – Fluvial Geomorphology .....	42
3.2	GEO-A-DSE-A-5-01-P – Fluvial Geomorphology Lab .....	43
3.3	GEO-A-DSE-A-5-02-TH – Climate Change: Vulnerability and Adaptations .....	44
3.4	GEO-A-DSE-A-5-02-P – Climate Change: Vulnerability and Adaptations Lab .....	45
3.5	GEO-A-DSE-A-6-03-TH – Environmental Issues in Geography .....	46
3.6	GEO-A-DSE-A-6-03-P – Environmental Issues in Geography Lab .....	47
3.7	GEO-A-DSE-A-6-04-TH – Resource Geography .....	48
3.8	GEO-A-DSE-A-6-04-P – Resource Geography Lab .....	49
3.9	GEO-A-DSE-B-5-05-TH – Cultural and Settlement Geography .....	50
3.10	GEO-A-DSE-B-5-05-P – Cultural and Settlement Geography Lab .....	51
3.11	GEO-A-DSE-B-5-06-TH – Social Geography .....	52
3.12	GEO-A-DSE-B-5-06-P – Social Geography Lab .....	53
3.13	GEO-A-DSE-B-6-07-TH – Urban Geography .....	54
3.14	GEO-A-DSE-B-6-07-P – Urban Geography Lab .....	55
3.15	GEO-A-DSE-B-6-08-TH – Geography of India .....	56
3.16	GEO-A-DSE-B-6-08-P – Geography of India Lab .....	57
<b>4.</b>	<b>Honours Course: Skill Enhancement Electives .....</b>	<b>58</b>
4.1	GEO-A-SEC-A-3-01-TH – Coastal Management .....	58
4.2	GEO-A-SEC-A-3-02-TH – Tourism Management .....	59
4.3	GEO-A-SEC-B-4-03-TH – Rural Development .....	60
4.4	GEO-A-SEC-B-4-04-TH – Sustainable Development .....	61
<b>5.</b>	<b>General Course: Core Subjects .....</b>	<b>62</b>
5.1	GEO-G-CC-1-01-TH – Physical Geography .....	62
5.2	GEO-G-CC-1-01-P – Physical Geography Lab .....	63
5.3	GEO-G-CC-2-02-TH – Environmental Geography .....	64
5.4	GEO-G-CC-2-02-P – Environmental Geography Lab .....	65
5.5	GEO-G-CC-3-03-TH – Human Geography .....	66
5.6	GEO-G-CC-3-03-P – Human Geography Lab .....	67
5.7	GEO-G-CC-4-04-TH – Cartography .....	68
5.8	GEO-G-CC-4-04-P – Cartography Lab .....	69
<b>6.</b>	<b>General Course: Discipline Specific Electives .....</b>	<b>70</b>
6.1	GEO-G-DSE-A-5-01-TH – Regional Development .....	70
6.2	GEO-G-DSE-A-5-01-P – Regional Development Lab .....	71
6.3	GEO-G-DSE-A-5-02-TH – Geography of Tourism .....	72
6.4	GEO-G-DSE-A-5-02-P – Geography of Tourism Lab .....	73
6.5	GEO-G-DSE-B-6-03-TH – Agricultural Geography .....	74
6.6	GEO-G-DSE-B-6-03-P – Agricultural Geography Lab .....	75
6.7	GEO-G-DSE-B-6-04-TH – Population Geography .....	76
6.8	GEO-G-DSE-B-6-04-P – Population Geography Lab .....	77
<b>7.</b>	<b>General Course: Skill Enhancement Electives .....</b>	<b>78</b>
7.1	GEO-G-SEC-A-3/4-01-TH – Coastal Management .....	78
7.2	GEO-G-SEC-A-3/4-02-TH – Forest and Wildlife Management .....	80
7.3	GEO-G-SEC-B-5/6-03-TH – Rural Development .....	80
7.4	GEO-G-SEC-B-5/6-04-TH – Sustainable Development .....	81

*Kamenajit Mukherjee*  
**Head**  
 Department of Geography  
 Sammilani Mahavidyalaya  
 Baghajatin Stn./E. M. Bypass  
 Kolkata - 700 094

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

**2.28 GEO-A-CC-6-14-P – Hazard Management Lab** ✧ 30 Marks / 2 Credits

A Group Project Report is to be prepared and submitted based on any one case study among the following hazards from West Bengal, incorporating a preparedness plan, preferably in the vicinity of the candidates' institution / district:

1. Earthquake
2. Landslide
3. Land subsidence
4. Thunderstorm
5. Flood
6. Riverbank / Coastal erosion
7. Fire
8. Industrial accident
9. Road / Railway accident
10. Structural collapse
11. Environmental pollution
12. Biohazard

One case study will be done by a group of five to ten students. Different groups may choose different case studies from any one or different types of disasters. The report should be prepared on secondary data and handwritten on A4 page in candidates' own words not exceeding 2,000 words excluding references. The report should contain a proper title. The report should incorporate relevant tables, maps, diagrams, and references, not exceeding ten pages. Photographs are optional and should not exceed three. A copy of the stapled / spiral-bound report in a transparent cover, duly signed by the concerned teacher, is to be submitted during examination. Without the report the candidates will not be evaluated for GEO-A-CC-6-14-P.

Marks division: 20 on report + 10 on viva-voce = 30

*Kamondish Mukherjee*  
Head  
Department of Geography  
Sammilani Mahavidyalaya  
Baghajatin Stn./E. M. Bypass  
Kolkata - 700 094

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



# University of Calcutta

Syllabus for three-year B.Sc. in Mathematics

(Honours)

*under*

CBCS System

2018

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	<del>29</del>	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018

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

*spaul*  
4/6/18  
(Dr. Santanu Paul)  
Deputy Registrar

**2.2. Tutorial Examination (Non-Laboratory-based subjects):**

Table below shows how the Tutorial Examinations, in general, will be conducted for different courses under each semester at the B.A./B.Sc.(Honours/General/Major) Examinations, under CBCS (semesterized Examinations):

Stream	Course Type	Semester	Venue/ Examination Centre	Examiners
Honours	Core Course	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> & 6 <sup>th</sup> Semesters	Home Centre	Internal
Honours	DSE	5 <sup>th</sup> & 6 <sup>th</sup> Semesters	Home Centre	Internal
Honours/Major	Generic	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> Semesters	Home Centre	Internal
General/Major	Core Course	1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup> , 4 <sup>th</sup> Semesters	Home Centre	Internal
General/Major	DSE	5 <sup>th</sup> & 6 <sup>th</sup> Semesters	Home Centre	Internal
General (B.A. only)	LCC	3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> Semesters	Home Centre	Internal

**N.B. There are no tutorial examinations for Skill Enhancement Courses (SEC) & AECCI.**

- The Tutorial Examination will be held in the 4<sup>th</sup> week of November in case of Odd Semesters and 4<sup>th</sup> week of May in case of Even Semester examinations.
- The modalities of Tutorial Examinations, recommended by respective UGBOS are annexed herewith for easy reference (see Annexure C).
- Marks of Tutorial Examinations are to be submitted by the College/ Head Examiner within 24<sup>th</sup> December for Odd Semesters and 30<sup>th</sup> June for Even Semesters. The submission of marks is to be made through online mode.
- Head Examiners/Coordinators of respective subjects/courses will supervise the Tutorial Examinations of Honours/General/Major.
- The actual duration of Tutorial Examination will be determined by the concerned UGBOS, duly approved by the appropriate authority.

Sumita Das  
 Department of Mathematics  
 Sammilani Mahavidyalaya  
 Baghajatin / E.M. By Pass  
 Kolkata-94

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

Manner by which Tutorial Examination will be taken:

Confidential

06	History	Honours & General: All courses	Term paper-15 marks	Internal Examiners of respective Colleges will determine the topic or modes and themes as per the instructions of UGBOS.	-
07	Hindi	Honours & General: All courses	One term paper of 15 marks each OR one seminar paper of 15 marks each.	Theme or topic to be decided by concerned Faculty of the College and evaluated by them as per the instructions of UGBOS.	-
08	Journalism and Mass Communication	Honours & General: All courses	<ul style="list-style-type: none"> <li>• One term paper of 2000 words or two term papers of 1000 words.</li> <li>• Equivalent to book review/comprehension</li> <li>• Field work based on syllabus related/current topics.</li> <li>• The modes/themes and or topics to be decided internally.</li> <li>• Examination pattern – paper/work presentation in a seminar ; Viva Voce</li> </ul>	<p>Both Internal and External examiners, in case of Honours Courses following the instructions of UGBOS.</p> <p>For General courses by Internal and External examiners following the instructions of UGBOS.</p>	-
09	Mathematics	Honours: All courses  General: All Courses	<p>5 marks for presentation 10 marks for Viva-Voce.</p> <p>Viva only-15 marks (2 questions per student).</p>	<p>To be conducted by Internal (2) examiners following the instructions of UGBOS.</p> <p>Internal (2) Examiners following the instructions of UGBOS.</p>	<p>15 minutes per student.</p> <p>10 minutes per student.</p>

Sumita Das

Gana

Principal  
Sammilani Mahavidyalaya  
E.M.Bypass, Baghajatta  
Kolkata - 700 093



# UNIVERSITY OF CALCUTTA

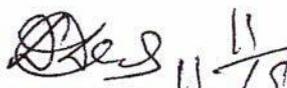
## Notification No. CSR/47/19

It is notified for information of all concerned that the Syndicate at its meeting held on 08.08.2019 (vide Item No.19) subsequently confirmed by the Syndicate 27.08.2019 (Item No.01) approved the revised syllabus of B.Sc. Physics (Honours/General) under CBCS, under this University, as laid down in the accompanying pamphlet.

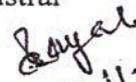
The above shall take effect from the academic session 2019 -2020 and the students who are at present attending semester-3 classes will continue with the old syllabus.

SENATE HOUSE  
KOLKATA-700 073

The 11th November, 2019.

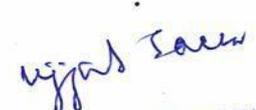
  
Prof.(Dr.) Debasis Das

Registrar

  
11.11.19



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

  
DEPARTMENT OF PHYSICS  
SAMMILANI MAHAVIDYALAYA  
KOLKATA-700 094

4.2	Analog Electronics	36
4.2.1	Analog Systems and Applications (Theory)	36
4.2.2	Analog Systems and Applications (Practical)	39
4.3	Quantum Mechanics	40
4.3.1	Quantum Mechanics (Theory)	40
4.3.2	Quantum Mechanics (Practical)	41
4.4	Arduino (Project type)	42
4.4.1	Arduino	42
4.4.2	Practical Projects	43
4.5	Electrical Circuits and Network skills (Theory)	43
<b>5</b>	<b>CC 11, CC 12, DSE A1, DSE B1</b>	<b>45</b>
5.1	Electromagnetic Theory	45
5.1.1	Electromagnetic Theory (Theory)	45
5.1.2	Electromagnetic Theory (Practical)	47
5.2	Statistical Physics	47
5.2.1	Statistical Physics (Theory)	47
5.2.2	Statistical Mechanics (Practical)	49
5.3	Advanced Mathematical Methods (Theory)	50
5.4	Laser and Fiber Optics (Theory)	52
5.5	Astronomy and Astrophysics (Theory)	53
5.6	Nuclear and Particle Physics (Theory)	55
<b>6</b>	<b>CC 13, CC 14, DSE A2, DSE B2</b>	<b>57</b>
6.1	Digital Systems and Applications	57
6.1.1	Digital Systems and Applications (Theory)	57
6.1.2	Digital Systems and Applications (Practical)	59
6.2	Solid State Physics	59
6.2.1	Solid State Physics (Theory)	59
6.2.2	Solid State Physics (Practical)	60
6.3	Nano Materials and Applications (Theory)	61
6.4	Advanced Classical Dynamics (Theory)	62
6.5	Communication Electronics (Theory)	64
6.6	Advanced Statistical Mechanics (Theory)	65
<b>II</b>	<b>Physics Syllabus : General Course</b>	<b>69</b>
<b>1</b>	<b>CC1/GE1</b>	<b>75</b>
1.1	Mechanics	75
1.1.1	Mechanics (Theory)	75
1.1.2	Mechanics (Practical)	76
<b>2</b>	<b>CC2/GE2</b>	<b>79</b>
2.1	Electricity and Magnetism	79
2.1.1	Electricity and Magnetism (Theory)	79
2.1.2	Electricity and Magnetism (Practical)	80

*Kijad Saun*

DEPARTMENT OF PHYSICS  
SAMMILANI MAHAVIDYALAYA  
KOLKATA-700 094

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

$$\square V(r) = \frac{1}{2}kr^2 + \frac{1}{3}br^3$$

$$\square V(r) = D \left( e^{-2\alpha r'} - e^{-\alpha r'} \right),$$

where  $r' = \frac{r-r_0}{r}$

**3. Time Evaluation of Wave Packet****6 Lectures + 18 Classes**

- Time evolution of a wave packet moving in free space by the numerical solution of the time dependent Schrödinger equation.
- Solving the TDSE to study Barrier penetration and tunneling for an initially Gaussian wavepacket.

**Reference Books**

1. An Introduction to computational Physics, T.Pang, 2nd Edn., 2006, Cambridge Univ. Press
2. Scientific Computing in Python, Abhijit Kar Gupta, Techno World
3. Computational Physics problem solving with Computers, Landau, Paez, Bordeianu etextbook in Python 3rd Edition
4. Computational Methods for physics, Joel Franklin, Cambridge University Press
5. Computational Quantum Mechanics, Joshua Izaac, Jingbo Wang, Springer

**SEC B -1 (Technical Skill)****4.4 Arduino (Project type)****4.4.1 Arduino**

<b>Paper PHS-A-SEC-B-TH</b>	<b>Credit 1</b>
-----------------------------	-----------------

**1. Introduction to Arduino****2 Lectures**

Brief history of the Arduino; open-source electronics prototyping.

**2. Basic ideas****3 Lectures**

Basic ideas of Arduino, Familiarize the Arduino board, Setting up the arduino board. Installation of IDE in PC/ laptop for Arduino programming(Sketch)

**3. Arduino Programming:****10 Lectures****(a) Program structure:**

data types, variables and constants, operators, control statements, loops, functions, string.

**(b) Interfacing:**

serial communication, digital and analog input/output, getting input from sensors(e.g. temperature sensor, ultrasonic sensor etc)

**Books and references**

*Kijal Sam*

DEPARTMENT OF PHYSICS  
SAMMILANI MAHAVIDYALAYA  
KOLKATA-700 094

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

1. Arduino Cookbook, Michael Margolis, O'Reilly Media (2011)
2. Getting Started with Arduino, Massimo Banzi, O'Reilly Media(2009)
3. Arduino as a tool for physics experiments, Giovanni Organtini 2018 J. Phys.: Conf. Ser. 1076 012026
4. <https://www.arduino.cc/en/Guide/HomePage>
5. Physics Today 66, 11, 8 (2013); <https://doi.org/10.1063/PT.3.2160>
6. The Physics Teacher 52, 157 (2014); <https://doi.org/10.1119/1.4865518>

#### 4.4.2 Practical Projects

Paper PHS-A-SEC-B-PR	Credit 1
----------------------	----------

1. LED Blinking and fading.
2. Measurement of voltages (Below 5 V and above).
3. Interfacing 7 Segment display.
4. Construction of thermometer using LM35 or Others.
5. Construct the experimental set up for studying simple pendulum and hence determine the acceleration's due to gravity.
6. Construct data logger for studying charging and discharging of RC circuit.

NOTE: Software required: Arduino Integrated Development Environment, Hardware required: Arduino Uno

## SEC B -2 (Knowledge Skill)

### 4.5 Electrical Circuits and Network skills (Theory)

PHS-A SEC-B -TH	Credit 2
-----------------	----------

1. DC generator : 10 Lectures
  - (a) EMF generated in the armature for simplex lap and wave winding, concept of pole, Methods of Excitation, Armature reaction, Dc motor : Torque equation of D.C motor, speed& torque Operating Characteristics of separately excited, Shunt, Series &Compound motors with emphasis on application areas.
  - (b) Three phase generator, concept of stator and rotor, star and delta connections – their current voltage relationships (both line and phase current & voltage).
2. Transformer : 5 Lectures

*Kyjal Soren*  
 DEPARTMENT OF PHYSICS  
 SAMMILANI MAHAVIDYALAYA  
 KOLKATA-700 094

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

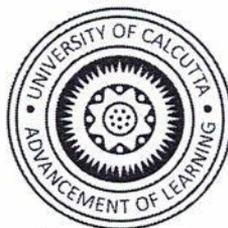
UNIVERSITY OF CALCUTTA

CBCS SYLLABUS OF ZOOLOGY

2018

F  
O  
R

THREE-YEAR HONOURS  
DEGREE COURSE OF STUDIES



*Debarshi Ray*

Head, Department of Zoology  
Sammilani Mahavidyalaya

*Gana*<sup>1</sup>

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



# UNIVERSITY OF CALCUTTA

## Notification No. CSR/ 12 /18

It is notified for information of all concerned that the Syndicate in its meeting held on 28.05.2018 (vide Item No.14) approved the Syllabi of different subjects in Undergraduate Honours / General / Major courses of studies (CBCS) under this University, as laid down in the accompanying pamphlet:

### List of the subjects

Sl. No.	Subject	Sl. No.	Subject
1	Anthropology (Honours / General)	29	Mathematics (Honours / General)
2	Arabic (Honours / General)	30	Microbiology (Honours / General)
3	Persian (Honours / General)	31	Mol. Biology (General)
4	Bengali (Honours / General /LCC2 /AECC1)	32	Philosophy (Honours / General)
5	Bio-Chemistry (Honours / General)	33	Physical Education (General)
6	Botany (Honours / General)	34	Physics (Honours / General)
7	Chemistry (Honours / General)	35	Physiology (Honours / General)
8	Computer Science (Honours / General)	36	Political Science (Honours / General)
9	Defence Studies (General)	37	Psychology (Honours / General)
10	Economics (Honours / General)	38	Sanskrit (Honours / General)
11	Education (Honours / General)	39	Social Science (General)
12	Electronics (Honours / General)	40	Sociology (Honours / General)
13	English ((Honours / General/ LCC1/ LCC2/AECC1)	41	Statistics (Honours / General)
14	Environmental Science (Honours / General)	42	Urdu (Honours / General /LCC2 /AECC1)
15	Environmental Studies (AECC2)	43	Women Studies (General)
16	Film Studies ( General)	44	Zoology (Honours / General)
17	Food Nutrition (Honours / General)	45	Industrial Fish and Fisheries – IFFV (Major)
18	French (General)	46	Sericulture – SRTV (Major)
19	Geography (Honours / General)	47	Computer Applications – CMAV (Major)
20	Geology (Honours / General)	48	Tourism and Travel Management – TTMV (Major)
21	Hindi (Honours / General /LCC2 /AECC1)	49	Advertising Sales Promotion and Sales Management –ASPV (Major)
22	History (Honours / General)	50	Communicative English –CMEV (Major)
23	Islamic History Culture (Honours / General)	51	Clinical Nutrition and Dietetics CNDV (Major)
24	Home Science Extension Education (General)	52	Bachelor of Business Administration (BBA) (Honours)
25	House Hold Art (General)	53	Bachelor of Fashion and Apparel Design – (B.F.A.D.) (Honours)
26	Human Development (Honours / General)	54	Bachelor of Fine Art (B.F.A.) (Honours)
27	Human Rights (General)	55	B. Music (Honours / General) and Music (General)
28	Journalism and Mass Communication (Honours / General)		

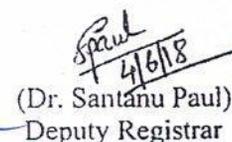
The above shall be effective from the academic session 2018-2019.

SENATE HOUSE  
KOLKATA-700073  
The 4<sup>th</sup> June, 2018



Head, Department of Zoology  
Sammilani Mahavidyalaya

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

  
(Dr. Santanu Paul)  
Deputy Registrar

<b>Unit 3: Agnatha</b>	2
General characteristics and classification of cyclostomes up to order (Young, 1981)	
<b>Unit 4: Pisces</b>	7
General characteristics and classification up to living sub classes (Young, 1981); Accessory respiratory organ, Migration in fishes; Parental care in fishes; Swim bladder in fishes.	
<b>Unit 5: Amphibia</b> ✓	7
General characteristics and classification up to living Orders (Young, 1981); Metamorphosis, Paedomorphosis, Parental care in Amphibia	
<b>Unit 6: Reptilia</b>	8
General characteristics and classification up to living Orders (Young, 1981); Poison apparatus and Biting mechanism in Snake. Poisonous & Non-Poisonous snake.	
<b>Unit 7: Aves</b>	8
General characteristics and classification up to living Sub-Classes (Young, 1981); Exoskeleton and migration in Birds; Principles and aerodynamics of flight	
<b>Unit 8: Mammals</b> ✓	9
General characters and classification up to living sub classes (Young, 1981); Exoskeleton derivatives of mammals; Adaptive radiation in mammals with reference to locomotory appendages; Echolocation in Micro chiropterans	

### Chordata Lab; ZOOA-CC-3-5-P

Full Marks 30	60 Hours	2 Credits
<b>List of Practical</b>		
Identification with Reasons		
a) <b>Protochordata:</b> <i>Balanoglossus, Branchiostoma</i>		
b) <b>Agnatha:</b> <i>Petromyzon</i>		
c) <b>Fishes:</b> <i>Scoliodon, Sphyrna, Pristis, Torpedo, Mystus, Heteropneustes, Labeo rohita, Exocoetus, Hippocampus, Anabas, Flat fish</i>		
d) <b>Amphibia:</b> <i>Necturus, Bufo (Duttaphrynus) melanostictus, Rana (Hoplobatrachus) tigerinus, Hyla, Tylotriton, Axolotl larva</i>		
e) <b>Reptilia:</b> <i>Chelone, Trionyx, Hemidactylus, Varanus, Calotes, Chamaeleon, Draco, Vipera, Naja, Hydrophis,</i>		
f) <b>Mammalia:</b> Bat (Insectivorous and Frugivorous), <i>Funambulus</i> (Indian Palm squirrel)		
Dissection of brain and pituitary – <i>ex situ</i> , digestive and Urino-genital system of <i>Tilapia</i>		
Pecten from Fowl head		
Power point presentation on study of habit, habitat or behaviour of any one animal by student – for internal assessment only		

*Debarshi Nay*

Head, Department of Zoology  
Sammilani Mahavidyalaya

*Pana*

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

## Animal Behaviour and Chronobiology Lab, ZOOA-DSE(B)-6-1-P

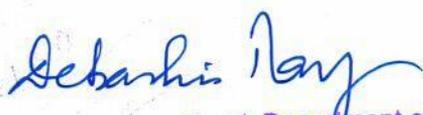
<b>Full Marks 50</b>	<b>60 Hours</b>	<b>2 Credits</b>
<b>List of Practical</b>		
<ol style="list-style-type: none"> <li>1. To study nests and nesting habits of the birds and social insects.</li> <li>2. To study the behavioural responses of wood lice to dry and humid conditions(demonstration only).</li> <li>3. To study geotaxis behaviour in earthworm.</li> <li>4. To study the phototaxis behaviour in insect larvae.</li> <li>5. Visit to Forest/ Wild life Sanctuary/Biodiversity Park/Zoological Park to study behavioural activities of animals and prepare a short report.</li> <li>6. Study of circadian functions in humans (daily eating, sleep and temperature patterns).</li> </ol>		

### PART III: SEMESTER 6

#### DSE2. Fish and Fisheries

#### ZOOA-DSE(B)-6-2-TH

<b>Full Marks 50</b>	<b>4 Credits</b>	<b>50 Hours</b>
<b>Unit 1: Introduction and Classification</b>		
Feeding habit, habitat and manner of reproduction. Classification of fish (upto Subclasses) (Romar, 1959)		4
<b>Unit 2: Morphology and Physiology</b>		
Types of fins and their modifications; Locomotion in fish; Hydrodynamics; Types of Scales, Use of scales in Classification and determination of age of fish; Gills and gas exchange; Swim Bladder: Types and role in Respiration, buoyancy; Electric organ, Bioluminescence		14
<b>Unit 3: Fisheries</b>		
Inland Fisheries; Marine Fisheries; Fishing crafts and Gears; Depletion of fisheries resources; Application of remote sensing and GIS in fisheries; Fisheries law and regulations		10
<b>Unit 4: Aquaculture</b>		
Extensive, semi-intensive and intensive culture of fish; Pen and cage culture; Polyculture; Composite fish culture; Brood stock management; Induced breeding of fish; Management of finfish hatcheries; Preparation and maintenance of fish aquarium; Preparation of compound diets for fish; Role of water quality in aquaculture; Fish diseases: Bacterial, viral and parasitic; Preservation and processing of harvested fish, Fishery by-products		16
<b>Unit 5: Fish in research</b>		
Transgenic fish Zebra fish as a model organism in research		6

  
 Head, Department of Zoology,  
 Sammilani Mahavidyalaya

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

Transmission, Prevention and Control of Tuberculosis and Typhoid.	
<b>Unit 3: Parasitic Protozoa</b>	7
Life History and pathogenicity of <i>Entamoeba histolytica</i> , <i>Plasmodium vivax</i> and <i>Trypanosoma gambiense</i> .	
<b>Unit 4: Parasitic Helminthes</b>	8
Life History and pathogenicity of <i>Ancylostoma duodenale</i> , <i>Wuchereria bancrofti</i> .	
<b>Unit 5: Insect of Economic Importance</b>	8
Biology, Control and Damage caused by <i>Helicoverpa armigera</i> , <i>Pyrilla perpusilla</i> , <i>Sitophilus oryzae</i> and <i>Tribolium castaneum</i> .	
<b>Unit 6: Insect of Medical Importance</b>	2
Medical Importance and control of <i>Anopheles</i>	
<b>Unit 8: Animal Husbandry</b>	6
Preservation and artificial insemination in cattle; Induction of early puberty and synchronization of estrus in cattle	
<b>Unit 9: Poultry Farming</b>	6
Principles of poultry breeding, Management of breeding stock and broilers, Processing and preservation of eggs	
<b>Unit 10: Fish Technology</b>	6
Genetic improvements in aquaculture industry; Induced breeding and transportation of fish seed	

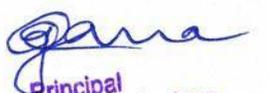
### Applied Zoology. ZOOG-DSE-A-5-1-P

Full marks 30	60 Hours	2 Credits
<b>List of Practical:</b>		
<ol style="list-style-type: none"> <li>1. Study of <i>Plasmodium vivax</i>, <i>Entamoeba histolytica</i>, <i>Trypanosoma gambiense</i>, <i>Ancylostoma duodenale</i> and <i>Wuchereria bancrofti</i> and their life stages through permanent slides/photomicrographs or specimens.</li> <li>2. Study of arthropod vectors associated with human diseases: <i>Pediculus</i>, <i>Culex</i>, <i>Anopheles</i>, <i>Aedes</i></li> <li>3. Study of insect damage to different plant parts/stored grains through damaged products/photographs.</li> <li>4. Identifying feature and economic importance of <i>Helicoverpa</i>; <i>Heliothis armigera</i>, <i>Papilio demoleus</i>, <i>Pyrilla perpusilla</i>, <i>Callosobruchus chinensis</i>, <i>Sitophilus oryzae</i> and <i>Tribolium castaneum</i></li> <li>5. Visit to poultry farm or animal breeding centre. Submission of visit report</li> <li>6. Maintenance of freshwater aquarium(demonstration only)</li> </ol>		

Debarshi Ray  
 Head, Department of Zoology  
 Sammilani Mahavidyalaya

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

# Commerce

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

# University of Calcutta



## **B.Com. Syllabus (Honours)** *under Semesterised CBCS*

2017

*CSB*

HEAD  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

*Gana*

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



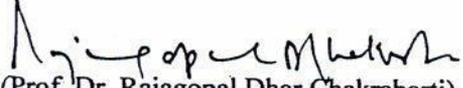
## UNIVERSITY OF CALCUTTA

### Notification No. CSR/ 26 /17

It is notified for information of all concerned that the Syndicate in its meeting dated 23.05.2017 (vide Item No.46) resolved to approve the **New Course Structure & Syllabi and revised Admission Regulations for the B.Com. (Honours and General)** courses of study under this University as laid down in the accompanying pamphlet.

The above shall be effective for the students getting admission to the 3-year 6-Semester B.Com. (Honours and General) courses of study under CBCS, from the academic session 2017-2018 and onwards.

SENATE HOUSE  
KOLKATA-700073  
The 26<sup>th</sup> May, 2017

  
(Prof. Dr. Rajagopal Dhar Chakraborti)

Registrar

  
HEAD  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

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

## Year 3: Semester VI

		Marks	Credit Hours	
AECC 6.1Chg	Environmental Studies	100	2	
SEC 6.1Chg	Computerised Accounting and e-Filing of Tax Returns	100	4	
CC 6.1 Ch	Project Work	100	6	
DSE 6.1 A**	Financial Reporting and Financial Statement Analysis	100	6	
DSE 6.2 A**	Financial Management	100	6	

24

**Chg:** Common for Honours and General; **Ch:** Core Course for Honours

### Options:

\*\*Or DSE 6.1 M (Retail Management and Marketing of Services (50+50)  
& DSE 6.2 M (Rural Marketing and International Marketing (50+50)

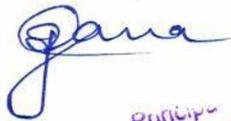
\*\*Or DSE 6.1 T (Indirect Tax: Laws and Practices)  
& DSE 6.2 T (Tax Procedures and Planning)

\*\*Or DSE 6.1 e-B (Internet & WWW and Functional e-Business System (50+50)  
& DSE 6.2 e-B(Computer Applications and e-Business Applications – Practical (50+50)

### Summary for B.Com. Hons.

		Marks	Credit Hours	
Ability Enhancement Compulsory Course (AECC)	Two Papers	200	2 x 2 = 4	
Skill Enhancement Elective Course (SEC)	Two Papers	200	2x4 = 8	
Generic Elective (GE)	Four Papers	400	4 x 6 = 24	
CORE COURSE (CC)	Fourteen Papers	1400	14x 6 = 84	
Discipline Specific Elective (DSE)	Four Papers	400	4 x 6 = 24	
		2600	Total 144	

  
**HEAD**  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

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

**Unit 5: IT Act, 2000 and Cyber Crimes**

**[6 Marks, Class: 6]**

IT Act 2000- Definitions of different terms, Digital signature, Electronic Governance, Attribution, Acknowledgement and Dispatch of Electronic Records, Regulation of Certifying Authorities, Digital Signatures Certificates. Duties of Subscribers, Penalties and Adjudication, Appellate Tribunal, Offences and Cyber-crimes.

**Module II**

**Information Technology and Its Application in Business (Practical)**

*(Marks: 50)*

**Internal Assessment: 10 marks**  
**Semester-end Examinations: 40 marks**  
**Total 50 marks**

**Unit 1: Word Processing**

**[5 Marks, Class: 5]**

Working with word document- Editing text, Find and Replace text, Formatting, Spell check, Autocorrect. Auto text: Bullets and numbering, Tabs, Paragraph Formatting, Indent, Page Formatting, Header and footer, Macros, Drop cap; Tables: Inserting, Filling and formatting a Table, Inserting Pictures and Video; Mail Merge- including linking with Database, Printing documents.

**Creating Business Documents using the above facilities**

**Unit 2: Preparing Presentations**

**[5 Marks, Class: 5]**

Basics of presentations: Slides, Fonts, Drawing, Editing; Inserting: Tables, Images, texts, Symbols, Media; Design: Transition, Animation, Hyperlink and Slideshow.

**Creating Business Presentations using above facilities.**

**Unit 3: Spreadsheet and its Business Applications**

**[16Marks, Class: 16]**

Managing worksheets- Formatting, Entering data, Editing, and Printing a worksheet; Handling operators in formula. Project involving multiple spreadsheets, Organizing Charts and graphs, Pivot Table.

**Spreadsheet Functions:** Mathematical [SUMIF, SQRT, SUBTOTAL, SUMPRODUCT etc.], Statistical [AVERAGE, STDEV, VAR, CORRELATION, REGRESSION etc.], Financial [PMT, RATE, PV, FV, NPER, IRR, NPV, Data Table Etc.] Logical [AND, OR, IF etc.], Date and Time, lookup and reference, Database and Text functions.

**Creating Spreadsheet in the area of:** Loan and Lease statement; Ratio Analysis; Payroll Statements; Capital Budgeting; Depreciation Accounting; Graphical Representation of Data; Frequency Distribution and its Statistical Parameters; Correlation and Regression

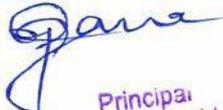
**Unit 4: Database Management System**

**[8 Marks, Class: 8]**

Creation of Tables, Multiple Table Handling-Defining Relationship [Foreign Key], Simple and Conditional Queries. Types of Queries [Update, Delete, Append], Forms, Reports, Introduction to SQL through Basic Commands.

Applying DBMS in the areas of Accounting, Inventory, HRM and its accounting, Managing the data records of Employees, Suppliers and Customers.

  
**HEAD**  
**DEPT OF COMMERCE**  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094

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

**Unit 5: Website Designing**

**[6 Marks, Class: 6]**

Introduction to HTML: Tags and Attributes: Text Formatting, Fonts, Hypertext Links, Tables, Images, Lists, Forms, Frames, Cascading Style Sheets.

**Suggested Readings**

- Thareja, IT & Application, Oxford
- Aurora, Computer Fundamentals, Vikash
- Sinha & Sinha, Fundamentals of Computers, BPB Publications
- Dhar, P., Fundamental of IT and Its Application in Business, APH

**GE 3.3 Chg  
Business Mathematics & Statistics  
Marks 100**

**Module I**

**Business Mathematics**

Internal Assessment: 10 marks  
Semester-end Examinations: 40 marks  
Total 50 marks

1. **Permutations and Combinations:** Definition, Factorial Notation, Theorems on Permutation, Permutations with repetitions, Restricted Permutations; Theorems on Combination, Basic identities, Restricted Combinations. [ 8 L /8Marks]
2. **Set Theory:** Definition of set, Presentation of sets, Different types of sets- Null set, Finite and infinite Sets, Universal set, Subset, Power set etc.; Set Operations, Law of algebra of Sets. [ 8 L /8Marks]
3. **Binomial Theorem:** Statement of the theorem for positive integral index, General term, Middle term, Simple properties of binomial coefficients. [ 8 L /8Marks]
4. **Logarithm:** Definition, Base and Index of Logarithm, General properties of Logarithm, Common Problems. [ 8 L /8Marks]
5. **Compound Interest and Annuities:** Simple AP and GP Series, Different types of interest rates, Net present value, Types of annuities, Continuous compounding, Valuation of simple loans and debentures, Problems relating to Sinking Funds. [8 L /8Marks]

**Module II  
Statistics**

Internal Assessment: 10 marks  
Semester-end Examinations: 40 marks  
Total 50 marks

6. **Correlation and Association:** Bivariate data, Scatter diagram, Pearson's correlation coefficient, Spearman's rank correlation, Measures of association of attributes.

  
**HEAD  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094**

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

**Unit 2: Designing Computerized Accounting System****[15 Marks, Class:15]**

- (a) Introduction to DBMS Package – Table, Query, Form and Report
- (b) Designing Computerized Accounting System using DBMS Package  
Creating a voucher entry Form, Preparing ledgers, trial balance, profit & loss a/c, and balance sheet with Form wizard and Report
- (c) Designing Payroll System for Accounting using Form, Query, and Report

**Unit-3: E-filing of Tax return [25 Marks, Class: 25]**

- (a) Preparation and submission of the Income Tax Return (ITR) offline/online for individual taxpayer [e-filing without using DSC and with using DSC, EVC]
- (b) View form 26AS, Upload return, View e-file returns, e-verification
- (c) Use of e-tax calculator (including interest calculation u/s 234A, 234B, 234C)
- (d) E-Pay tax (Challan No./ITNS 280, ITNS 281)
- (e) Preparation and submission online form 10E [Relief u/s 89(1)]

**Project Work: Assignment based for each and every topic should be prepared**

- Software: Singhanian, V.K., E-Filing of Income Tax Returns and Computations of Tax, Taxmann
- Software: "Excel Utility", incometaxindiaefiling.gov.in

**CC 6.1 Ch****Project Work (Project Report - 50 + Viva-Voce Examination - 50)****Full Marks 100****DSE 6.1 A****FINANCIAL REPORTING AND FINANCIAL STATEMENT ANALYSIS****Full Marks 100**

**Internal Assessment: 20 marks**  
**Semester-end Examinations: 80 marks**  
**Total 100 marks**

Marks shown against the units indicate marks for Semester-end Examinations

**FINANCIAL REPORTING AND FINANCIAL STATEMENT ANALYSIS**

Unit	Topic	Details	Marks allotted	No. of lectures
I	Holding Company	Meaning of Holding Company & Subsidiary Company; relevant standard; Consolidation of Balance Sheets of Parent & Subsidiary (only one); Minority Interest – Basic principles and preparation of CBS; CBS with loss balance of Subsidiary Treatment for: Revaluation of Assets of Subsidiary, Intra-	15	15

*CSB*  
**HEAD**  
**DEPT OF COMMERCE**  
 Sammilani Mahavidyalaya  
 E.M. By Pass, Baghajatin  
 Kolkata-700054

*Jana*  
**Principal**  
 Sammilani Mahavidyalaya  
 E.M. By Pass, Baghajatin  
 Kolkata - 700 094



# THE INSTITUTE OF COMPUTER ACCOUNTANTS JADAVPUR

Centre : 29/1/1, Raja S. C. Mullick Road, (Near Shyama Pally, Shyama Sangha, Lokenath Mandir) Kol-32  
Tel: - 8961006065, Email id- wb.kol.jadavpur@icagroup.in

## 30 HOURS INTERNSHIP SYLLABUS

### MODULE- 1

INTRODUCTION OF MS.EXCEL

### MODULE - 2

MANAGING WORK BOOK AND WORKSHEET

### MODULE – 3

VERIOUS FORMULA USING EXCEL

### MODULE – 4

INTRODUCTION OF TALLY

- COMPANY CREATION AND ALTERATION
- LOAD COMPANY AND SHUT COMPANY
- COMPANY FEATURES AND CONFIGURATION

### MODULE – 5

- LEDGER CREATION
- GROUP & SUBGROUP CREATION
- VOUCHER ENTRY
- BACKUP RESTOR

### MOD ULE -6

- TRIAL BALANCE
- BALANCE SHEET
- OPENING BILL ALLOCATION
- PRATY PAYMENT & RECIVED

### MODUL E - 7

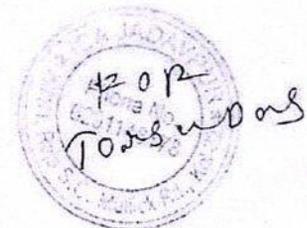
- STOCK GROUP
- STOCK CATEGORY
- MULTIPLE GODOWN
- STOCK ITEM
- STOCK TRANSFER

### MODULE – 8

- PURCHASE ORDER
- RECIVE NOTE

ATTESTED

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



  
HEAD  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata-700094



# THE INSTITUTE OF COMPUTER ACCOUNTANTS JADAVPUR

Centre - 29/1/1, Raja S. C. Mullick Road, (Near Shyama Pally, Shyama Sangha, Lokenath Mandir) Kol-32  
Tel. - 8961006065, Email id- wb.kol.jadavpur@icagroup.in

- PURCHASE BILL
- PURCHASE RETURN / DEBIT NOTE

## MODULE - 9

- SEALS ORDER
  - DELIVERY NOTE
  - SALE INVOICE
  - SALES RETRUN
- 
- WHAT IS GST
  - INWARD SUPPLY OF GOODS-LOCAL
  - OUTWARD SUPPLY OF GOODS-LOCAL
  - INVOICE PRINTING

## MODULE-10

- INWARD SUPPLY OF GOODS-INTERSTATE
- OUTWARD SUPPLY OF GOODS-INTERSTATE
- INPUT TAX CREDIT
- PAYMENT OF TAX

## MODULE-11

- SALE SERVICES(LOCAL)
- SERVICE INVOICE PRINTING
- PURCHASE SERVICES(LOCAL)

## MODULE-12

- CONCEPT OF TDS
- DEDUCTING TDS ON EXPENSES
- TDS PAYMENT& CHALLAN
- 

## MODULE-13

- GST REPORT
- SAVING FROM 26Q
- EXPORTING FROM 26Q

## MODULE-14

- GST REGISTRATION

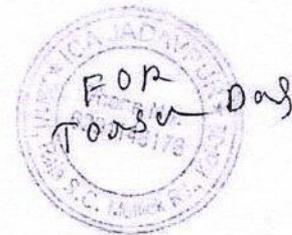
## MODULE-15

- GST RETURN

ATTESTED



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





HEAD  
DEPT OF COMMERCE  
Sammilani Mahavidyalaya  
E.M. By Pass, Baghajatin  
Kolkata - 700094