



KHALISANI MAHAVIDYALAYA

AISHE CODE – C44706

Khalisani, Chandannagar, Hooghly, Pin-712138

Ph. No. (033)-2682-5530/9517/8856

Email- khalisanimahavidyalaya@gmail.com

Website: www.khalisanicollege.ac.in

Enlightenment through Education

Course Outcomes (CO) and Program Outcomes (PO):

Bachelor of Arts (Honours):

CO: Demonstrate critical thinking and analytical skills in analysing literary texts.

CO: Apply theoretical frameworks to understand social, cultural, and political phenomena.

CO: Develop effective communicative skills through written and oral presentations.

CO: Demonstrate methods in academic writing.

PO: Graduates will exhibit a truthful understanding of society, culture, and literature.

PO: Graduates will possess analytical and communication skills.

PO: Graduates will be equipped with academic writing proficiency.

Bachelor of Science (Honours):

CO: Apply scientific principles and methods to solve complex problems.

CO: Demonstrate proficiency in laboratory techniques and experimental program.

CO: Analyse and interpret scientific data effectively.

PO: Graduates will demonstrate competence in scientific inquiry and problem-solving.

PO: Graduates will possess practical laboratory skills and experimental proficiency.

PO: Graduates will exhibit the ability to think critically to evaluate scientific information.



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Bachelor of Commerce (Honours):

CO: Analyse financial data and interpret business trends.

CO: Apply accounting principles to financial transactions.

CO: Demonstrate proficiency in business communication and presentation skills.

CO: Understand principles of economics and their application in business.

PO: Graduates will possess a strong understanding of financial and economic principles.

PO: Graduates will demonstrate proficiency in business communication.

PO: Graduates will exhibit competence in financial analysis and accounting practices.

General Courses (B.Sc. Pure, B.Sc. Bio, B.A., and B.Com.):

CO: Acquire foundational knowledge in respective disciplines.

CO: Develop critical thinking skills through interdisciplinary approaches.

CO: Apply theoretical concepts to real-world scenarios.

PO: Graduates will demonstrate a basic understanding in different discipline.

PO: Graduates will possess interdisciplinary thinking and problem-solving abilities.

PO: Graduates will exhibit effective communication and presentation skills.



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Enlightenment through Education

Program and Course Outcome

Bengali

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-I	বাংলা সাহিত্যের ইতিহাস - প্রাচীন ও মধ্য যুগ	6	এই কোর্সে শিক্ষার্থীরা বাংলাভাষার প্রাচীন ও মধ্যযুগের সাহিত্যিক নিদর্শন, যেমন - চর্যাগীতি, শ্রীকৃষ্ণকীর্তন, অনুসারী সাহিত্য, অন্যদিকে বিভিন্ন মঙ্গলকাব্য, গীতিকা ও শাক্ত সাহিত্য সম্পর্কে বিস্তারিত জানতে পারল ও ধারণা লাভ করল।
I	Honours	CC-II	ছন্দ, অলঙ্কার	6	এই কোর্সে শিক্ষার্থীরা বাংলা ছন্দ- নির্ণয়, ছন্দ-লিপি তৈরি করা, অলঙ্কার নির্ণয় করা শিখল এবং চিত্রকল্পের তাৎপর্য সম্পর্কেও তাদের প্রাথমিক ধারণা তৈরি হল।
II	Honours	CC-III	পদাবলী সাহিত্য - বৈষ্ণব পদাবলী, শাক্ত পদাবলী	6	এই কোর্সে শিক্ষার্থীরা মধ্যযুগের বাংলা সাহিত্যের স্বরূপ এবং বৈষ্ণব পদাবলী ও শাক্তদাবলীর বিষয়, পদকারদের কথা সর্বোপরি ধর্মভিত্তিক হয়েও সেগুলির অটুট সাহিত্যগুণ সম্পর্কে জানতে পারলো।
II	Honours	CC-IV	রামায়ন, অন্নদামঙ্গল	6	এই কোর্সে শিক্ষার্থীরা অনুসারী সাহিত্য কৃতিবাসী রামায়ণের লঙ্কাকাণ্ড আর মধ্যযুগের শেষ নিদর্শন রায়গুণাকর ভারতচন্দ্রের অন্নদামঙ্গল কাব্য ও তার সমকালীন পরিস্থিতি সম্পর্কে জ্ঞানলাভ করল।



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II	Arts, Science, Commerce	AECC 2	MIL (Bengali)	2	শিক্ষার্থীরা এই কোর্সে মাতৃভাষার সাহিত্যেরবিভিন্ন শাখা সম্পর্কে ও এ ভাষার ব্যবহারিক প্রয়োগ সম্পর্কে ধারণা লাভ করল
III	Honours	CC-V	বাংলা সাহিত্যের ইতিহাস (১৮০১ - ১৯৫০)	6	এই কোর্সে শিক্ষার্থীরা আধুনিক যুগে বাংলা গদ্যের উৎপত্তি ও বিকাশ, ঈশ্বরচন্দ্র গুপ্ত থেকে রবীন্দ্রনাথ ঠাকুরের কবিতা সম্পর্কে, কথাসাহিত্য ও নাটকের উদ্ভব ও ক্রমবিকাশের বিস্তৃত ধারণা পেল।
III	Honours	CC-VI	ভাষাতত্ত্ব	6	এই কোর্সে শিক্ষার্থীরা বাংলাভাষা ও ভাষাতত্ত্ব গবেষণার মৌলিক ধারণাগুলো পেল। ভাষাতত্ত্ব এবং ভাষা শিক্ষার মধ্যে একটি সম্পর্ক স্থাপন করতে পারল। ভাষার বিবর্তনের ধারা সম্পর্কে ধারণা তৈরি হল। বাংলার বিভিন্ন উপভাষা ও তার বৈশিষ্ট্যও তাদের জানা হল।
III	Honours	CC-VII	উনিশ শতকের কাব্য	6	এই কোর্সে শিক্ষার্থীরা উনিশ শতকের বাংলা পত্রকাব্য 'বীরাঙ্গনা' ও মধুসূদন দত্ত সম্পর্কে এবং বিহারীলাল চক্রবর্তীর 'সারদামঙ্গল' গীতিকাব্য সম্পর্কে সম্যক ধারণা পেল।
III	Honours	SEC-I	বাংলা ব্যাকরণ	2	এই কোর্সে শিক্ষার্থীদের বাংলা ব্যাকরণের সাথে পরিচয়, শুদ্ধ রচনার ক্ষেত্রে সঠিক শব্দ ব্যবহার, কারক ও সমাসের সঠিক ধারণা লাভ করতে পারলো।



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IV	Honours	CC-VIII	কবিতা	6	এই কোর্সে শিক্ষার্থীরা রবীন্দ্রনাথ ঠাকুরের স্বয়ং-নির্বাচিত কাব্যগ্রন্থ - সঞ্চয়িতা সম্পর্কে ও তার নির্বাচিত কয়েকটি কবিতার বিবিধ রস আন্বেষণ করল। আবার আধুনিক কালের অনেক কবি সম্পর্কে জানতে পারল এবং তাঁদের কবিতা সম্পর্কে জ্ঞানলাভ করল।
IV	Honours	CC-IX	উপন্যাস	6	এই কোর্সে শিক্ষার্থীরা বঙ্কিমচন্দ্র চট্টোপাধ্যায়ের ত্রিকোণ প্রেম সমস্যার উপন্যাস 'চন্দ্রশেখর' এবং তারাশঙ্কর বন্দ্যোপাধ্যায়ের রাঢ় বাংলার উপন্যাস 'গণদেবতা' সম্পর্কে জানতে পারল।
IV	Honours	CC-X	নাটক	6	এই কোর্সে শিক্ষার্থীরা বাংলা নাটকের উদ্ভবের প্রাথমিক ধারণা পেল। এছাড়া প্রতিনিধিত্ব মূলক সমকালীন নাটক ও নাট্যকার দীনবন্ধু মিত্র, তত্ত্বমূলক নাটক ও নাট্যকার রবীন্দ্রনাথ সম্পর্কে জানতে পারল।
IV	Honours	SEC-II	রচনাশক্তির নৈপুণ্য	2	এই কোর্সের উদ্দেশ্য শিক্ষার্থীদের ভাবার্থ ও ভাবসম্প্রসারণ লেখার অভ্যাস তৈরি। তার সাথে সাথে প্রকাশনার ক্ষেত্রে বৃহত্তর পরিধিতে প্রতিবেদন রচনার পদ্ধতি সম্পর্কে ধারণা পেল।
V	Honours	CC-XI	গল্প	6	এই কোর্সে শিক্ষার্থীরা বাংলা ছোটগল্পের উদ্ভাবক রবীন্দ্রনাথ ঠাকুর ও তাঁর গল্পগুচ্ছের নির্বাচিত গল্প সম্পর্কে আর আধুনিক কালের বিভিন্ন গল্পকার ও তাঁদের বিভিন্ন ধরনের গল্পের রস আন্বেষণ করল।



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V	Honours	CC-XII	প্রবন্ধ ও প্রাচ্য কাব্যতত্ত্ব	6	এই কোর্সে শিক্ষার্থীরা প্রাচীন আলংকারিক ও তাঁদের মতবাদ সহকারে সাহিত্য কি তার অনুসন্ধান আগ্রহী হল। এছাড়া বিভিন্ন লেখকের বৈচিত্র্যময় প্রবন্ধ থেকে জানতে পারল লেখকদের ভাবনা চিন্তা, বাংলা প্রবন্ধের বৈশিষ্ট্য এবং বিচিত্র বিষয়ের তথ্য।
V	Honours	DSE-I	উনিশ শতকের বাংলা কাব্য ও প্রবন্ধ	6	এই কোর্সে শিক্ষার্থীরা উনিশ শতকের বাংলা গীতিকবিতা, আখ্যানকাব্য ও প্রবন্ধ বিষয়ে সম্যক ধারণা পেল।
V	Honours	DSE-II	উনিশ শতকের বাংলা নাটক ও কথাসাহিত্য	6	এই কোর্সে শিক্ষার্থীরা উনিশ শতকের নাটক, ও কথাসাহিত্য সম্পর্কে সম্যক ধারণা পেল।
VI	Honours	CC-XIII	সংস্কৃত ও ইংরাজী সাহিত্যের ইতিহাস	6	এই কোর্সে শিক্ষার্থীদের শুধু বাংলা সাহিত্য নয় - ইংরাজী ও সংস্কৃত সাহিত্যের সাথেও প্রাথমিক পরিচিতি হল। আর সেগুলির সাথে বাংলা সাহিত্যের তুলনামূলক আলোচনা করতেও তারা শিখল।
VI	Honours	CC-XIV	সাহিত্যের রূপরীতি ও সংরূপ	6	এই কোর্সে শিক্ষার্থীরা সাহিত্যের বিভিন্ন রূপ এবং সাহিত্যিক মতবাদ - ক্লাসিসিজম, রোমান্টিসিজম, রিয়ালিজম, সিম্বলিজম, এবং সাহিত্যের বিভিন্ন সংরূপ - কবিতা, নাটক, উপন্যাস, ছোটগল্প, প্রবন্ধের স্বরূপ, উদ্ভব ও বিকাশ সম্পর্কে বিশেষ জ্ঞান লাভ করল।



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VI	Honours	DSE-III	বিশ শতকের বাংলা কথাসাহিত্য	6	এই কোর্সে শিক্ষার্থীরা বিশ শতকের স্বাধীনতা পূর্ববর্তী বাংলা কথাসাহিত্য অর্থাৎ বাংলা ছোটগল্প ও উপন্যাসের বৈশিষ্ট্য, ক্রমবিকাশ, বিবর্তন ইত্যাদি সম্পর্কে ধারণা পেল।
VI	Honours	DSE-IV	সাহিত্য বিষয়ক প্রবন্ধ ও লোকসাহিত্য	6	এই কোর্সে শিক্ষার্থীরা বাংলা সাহিত্যের প্রাবন্ধিক ও তাঁদের রচিত সাহিত্য বিষয়ক বিভিন্ন প্রবন্ধ সম্বন্ধে ধারণা পেল এবং লোকসংস্কৃতি ও লোকসাহিত্য -- ছড়া, প্রবাদ, ধাঁধা, লোকসঙ্গীত, লোকনাটক, গীতিকা ইত্যাদি বিষয়ে সম্পূর্ণ ধারণা পেল।




Dr. Arghya Bandyopadhyay

Principal

Principal
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Program and Course Outcome

English

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-I	Indian Classical Literature	6	Students will get acquainted with the basics of Indian literatures from antiquity. They will also learn about the socio-political, economic, moral and historical contexts of the old Indian society through these ancient classics.
I	Honours	CC-II	European Classical Literature	6	This course will familiarise the students with the classics of the West. As a covenant with a very remote and distant past, this course will provide the students an insight into the Greek and Roman times of myths, legends and bio-politics where the first Republics of the West came to pass.
II	Honours	CC-III	Indian Writing in English	6	This Paper will inform the students about the authors from India who wrote in English during colonial and post-colonial times. This will help the students to understand the basic history and dynamics of Indian Writing in English.
II	Honours	CC-IV	British Poetry, Drama (16 th -17 th Centuries) & Rhetoric and Prosody	6	Students will a basic idea of Shakespeare and his contemporaries through this course. Renaissance, Metaphysical Poetry, English Stage are some of the important topics covered in this course. This important course is an entry into the larger issues of Elizabethan England concerning politics, religiosity and new epistemologies.
III	Honours	CC-V	American Literature	6	Magnum opuses produced in America across the centuries are briefly discussed in this course. This course is an entry into a new branch of literature meant for the students who can later learn in detail about larger issues concerning nation and nationalism, American Dream and Colonisation.



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III	Honours	CC-VI	Popular Literature	6	This particular course introduces the students into the debate of Popular vs Canonical, the relevance of popular literature in the reading populace and the various connotations associated with the notion of 'The Popular' otherwise dismissed as pulp fiction of no depth or interventionist potential. This course adds to the development of critical faculty among the students.
III	Honours	CC-VII	British Poetry and Drama (17 th – 18 th Centuries)	6	The learners will have a comprehensive knowledge on various aspects of the Long Eighteenth Century concerning new religious systems, occupational hierarchies, Nouveau Riche communities and basic idea of early capitalism and colonisation. Pope, Milton, Aphra Behn are some of the key authors covered in this course. Though briefly, the students will learn a lot about 18 th century England.
III	Honours	SEC-I	Translation Studies	4	The learners will learn the basics of translation and the various issues related to it.
IV	Honours	CC-VIII	British Literature (18 th Century)	6	This is the continuation of CC-VIII which is intended to provide the concept of European transition from feudal to capital mode by means of a brief survey on England during this century. The pronounced differences between the country and the city and the early effects of capitalism can be grasped through this course.
IV	Honours	CC-IX	British Romantic Literature	6	As Romanticism in England is a very important literary movement, this entire course is dedicated to acquaint the students with some of the important authors and their noted works during this era. New forms such as Gothic, important female authors such as Jane Austen and philosophers such as Rousseau is also briefly discussed in this course.



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IV	Honours	CC-X	British Literature (19 th Century)	6	This course familiarises the students with the changing currents of the British society. As Darwinian beliefs shook the very bedrock of English society, radical reconsiderations of all old epistemologies such as church, God, religion, morality, sexuality, existence, role of women were underway. The students will get a feel of these troubled times and disturbed psyches.
IV	Honours	SEC-II	ELT	4	The primary outcome of this course is to enhance the skill of the students by providing them with an idea of how to utilise English as a non-native speaker of the language and various other modalities of how to use it.
V	Honours	CC-XI	Women's Writing	6	The students shall have the idea of the importance and histories of the literatures produced by women. This is very significant as feminine voices and concerns have been historically neglected over the centuries. The students can learn a lot about gender and patriarchy in this course.
V	Honours	CC-XII	British Literature (Early 20 th Century)	6	The students will be enriched with the knowledge of the literature written during the troubled years leading to major wars in Europe. Human existence, nature of relationships as well as world politics, power equations, languages of expression changed and this course will introduce the students to a very important century in the life of English literature.
V	Honours	DSE-I	Modern Indian Writing in English Translation	6	This paper will inculcate among the students the idea of the importance of translation and how translation helps us attain a sense of nationhood. Regionalism in literature is also an important topic which will be discussed in this course.



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V	Honours	DSE-II	Partition Literature	6	This course will inform the students about the horrors of Partition and how it changed the geo-politics in South Asia. Besides, the politics of the leaders at the macro level, this course will acquaint the students with the traumatic impact individuals had to undergo on a micro level.
VI	Honours	CC-XIII	Modern European Drama	6	This course will acquaint the students with the chef d'oeuvre of the drama of Europe. Various concerns of European societies regarding society, politics, aftermath of world wars will be briefly discussed in this course. This course is an entry into the world of Ibsen, Brecht and Ionesco for the students.
VI	Honours	CC-XIV	Postcolonial Literatures	6	This course will inform the students about the various post-colonial nations and the horrors inflicted upon them by the ruling colonisers. This course will inform the students about the basics of colonialism and how it changed the world as we know it.
VI	Honours	DSE-III	Literary Theory	6	This paper will introduce the students to the world of literary theory. This paper is of enormous significance as theories will play a crucial role in the understanding of literary texts on a senior academic level.
VI	Honours	DSE-IV	Literary Criticism and History of the English Language	6	This paper will focus specifically on various literary critics and literary criticism present in the English literary canon. Additionally, a chronology of the changes in the English language over the years will also be briefly discussed in the class.


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Program and Course Outcome

Sanskrit

Semester	Course	Title of Paper	Credit	Objective and Course outcome
SEM1	CC1	Classical Sanskrit Literature (Poetry)	6	This course aims to get students acquainted with Classical Sanskrit Poetry. It intends to give an understanding of literature, through which students will be able to appreciate the development of Sanskrit Literature. The course also seeks to help students to negotiate texts independently.
	CC2	Critical Survey of Sanskrit Literature	6	This course aims to get students acquainted with the history of Classical Sanskrit Literature. As an ancient language Sanskrit has a splendid treasure of Literature and Culture. Students of Honours level should know about the treasure at the beginning of their study.
SEM2	CC3	Classical Sanskrit Literature (Prose)	6	This course aims to acquaint students with Classical Sanskrit Prose literature. Origin and development of prose, Important prose romances and fables Sanskrit are also included here for students to get acquainted with the beginnings of Sanskrit Prose literature. The course also seeks to help students negotiate texts independently.
	CC4	Self Management in the Gītā	6	The objective of this course is to study the philosophy of self-management in the Gītā. The course seeks to help students negotiate the text independently without referring to the traditional commentaries so as to enable them to experience the richness of the text.



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SEM3	CC5	Classical Sanskrit Literature (Drāmā)	6	This course aims to acquaint students with most famous dramas of Sanskrit literature which represent three stages in the growth of Sanskrit drama. The dramatists like Bhāsa, Aśvaghoṣa, Kālidāsa, Śūdraka, Viśākhadatta, Śrīharṣa, Bhavabhūti, Bhaṭṭanārāyaṇa etc. will be known to the students and their creations will be highlighted. They will be able to know the philosophical outlook of Kalidasa through the drama Abhijñānaśakuntalam.
	CC6	Poetics and Literary Criticism	6	The study of sāhityaśāstra (Sanskrit Poetics) embraces all poetic arts and includes concepts like alaṅkāra, rasa, rīti, vakrokti, dhvani, aucitya etc. The entire domain of Sanskrit poetics has flourished with the topics such as definition of poetry and divisions, functions of word and meaning, theory of rasa and alaṅkāra (figures of speech) and chandas (metre), etc.
	CC7	Indian Social Institution and Polity	6	This course aims to acquaint students with the political literature of ancient India. Texts like Manusamhita and Arthashastra of Kautilya make the students aware of the social and political responsibilities which is still relevant to the present time.
	SEC1	Basic Sanskrit OR Ethical & Moral Issues in Sanskrit	2	This course aims to acquaint students with ancient Indian Scripts like Brahmi and the development of modern Indian scripts through ages.
SEM4	CC8	Indian Epigraphy and Chronology	6	This course aims to acquaint the students with the epigraphical journey in Sanskrit, the only source which directly reflects the society, politics, geography and economy of the time. The course also seeks to help students to know the different styles of Sanskrit writing.
	CC9	Modern Sanskrit Literature	6	This course aims to acquaint students with the works of modern Sanskrit writers like Panchanan Tarkaratna, Shrijiva Nyayatirtha, Haridas Siddhantavagish, Roma Bose, Siddheshwar Chattopadhyay and many more.



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	CC10	Sanskrit and World Literature	6	Scholars of different countries of the west have nurtured the golden treasure of Sanskrit literature mostly in eighteenth century and later. This course aims to acquaint students with the contribution of foreign scholars like Max Muller, William Jones, MacDonnel, Winternitz etc. in Sanskrit literature.
	SEC2	Spoken Sanskrit OR Political Thought in Sanskrit Literature	2	This course aims to acquaint students with the speaking power in Sanskrit language.
SEM5	CC11	Vedic Literature	6	This course on Vedic literature aims to introduce various types of vedic texts. Students will also be able to read various suktas of the Rk Veda, one Upaniṣad, namely, Ishopaniṣad, where primary Vedānta-view is propounded.
	CC12	Sanskrit Grammar	6	This is an elementary course in Sanskrit language designed for students who wish to learn Sanskrit from the very beginning. Essential Sanskrit grammar will be introduced (without reference to Panini's sutras) through the multiple example method with emphasis on students constructing themselves sentences.
	DSE1	Dramaturgy – Sāhityadarpaṇa [Chapter- VI] OR Maxims in Sanskrit Language	6	Sanskrit rhetoric has a long tradition of critical study of literature for thousands of years. Sahityadarpan of Biswanath is one of the great treatises where discussion about the characteristics of Poetry, Epics, Drama etc. This course aims to acquaint students with the view of ancient Sanskrit scholars regarding poetic issues.
	DSE2	Elements of Linguistics OR Technique of Sanskrit Language	6	This course aims to acquaint students with the science of Language and the relation of Sanskrit with other languages of different countries of different times.



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SEM6	CC13	Indian Ontology and Epistemology	This course aims to get the students acquainted with the cardinal principles of the Nyāya-Vaiśeṣika philosophy through the Tarkasaṅgraha and to enable students to handle philosophical texts in Sanskrit. It also intends to give them an understanding of essential aspects of Indian Philosophy.
	CC14	Sanskrit Composition and Communication	This course aims to acquaint students with the composition of essays, stories, letters, applications in Sanskrit language. Students will be able to read and understand Sanskrit Texts, make sentences in Sanskrit, develop the ideas about grammatical structure of sentences and appraise the poetical compositions in Sanskrit.
	DSE3	Fundamentals of Āyurveda OR Environmental Awareness in Sanskrit	Āyurveda is a traditional Indian system of healthcare that has been traced back as early as 5,000 BCE. Through the classroom lectures and discussions, this course will introduce students to the theory of Āyurveda. The major objective is to understand the basic principles and concepts of preventative medicine and health maintenance, diet and nutrition, usage of commonly used spices and herbs and outline of Āyurvedic therapeutic procedures in Āyurveda.
	DSE4	Art of Balanced Living OR Indian system of Logic	This course aims to get the students acquainted with the Indian principles of debate. The course intends not only to bring our indigenous science of argument to the fore, but it also wants to enable students to develop logical faculty of their mind and to perceive the world in a more rational way in their day to day life.



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Enlightenment through Education

Program and Course Outcome

History

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-I	History of India, From Earliest Times to 600 CE	6	Students will acquire a general concept on politics, society, economy and cultural aspects of early India.
I	Honours	CC-II	Social Formations and Cultural Patterns of the Ancient World	6	This course will provide the students with a thorough knowledge on the historical processes of prehistoric cultures, bronze age civilizations and ancient Greece
II	Honours	CC-III	History of India (600-1200 CE)	6	This Paper will enable the students to get an idea of early medieval India along with the concept of Indian Feudalism and rise of Regional cultures
II	Honours	CC-IV	Social Formations and Cultural Patterns of the Medieval World	6	The course content is vast and diversified and the students can acquire brief knowledge on the transition from the Roman World to the world of Medieval Europe with particular reference to the rise and evolution of feudalism.
III	Honours	CC-V	History of India (circa 1206-1525 CE)	6	The advent of the Turkish, the establishment of the Turkish-Afghan rule and the interaction between the Hindu and Muslim culture are some broad themes on which the students can gather knowledge by going through this course.



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III	Honours	CC-VI	Rise of the Modern West -I (15th to 16th centuries)	6	This particular paper is in continuance with CC-IV and by going through this curriculum the learners can have a good idea about the transition of Europe from medieval to modern times or in other words from feudalism to capitalism. The catalyst of this process of transition inter alia Renaissance, the Geographical Discoveries, the Reformation and Rise of National States are some areas where the students can have conceptual knowledge
III	Honours	CC-VII	History of India (1526-1757 CE)	6	The learners will have a comprehensive knowledge on various aspects of the Mughal empire including the establishment of Mughal rule and its pan indian expansion, the religious experiments of Akbar, the decline during the time of Aurungzeb, along with other socio-economic and administrative aspects like The jagirdari and the Zamindari system, Mughal and Indo-Islamic architecture, etc.
III	Honours	SEC-I	Understanding Heritage	4	This course is intended for developing skills and theoretical knowledge among the students. The paper deals with the concept of heritage and heritage preservation by means of acts, archaeology and museum -particularly in Indian perspective.
IV	Honours	CC-VIII	Rise of the Modern West -II (17th to 18th centuries)	6	This is the continuation of CC-VI which is intended to provide the concept of European transition from feudal to capital mode by means of a brief survey on English Revolution of the 17th century, the Scientific Revolution, the Enlightenment and the coming of Industrial Revolution.



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IV	Honours	CC-IX	History of India (1757-1857 CE)	6	One of the most valued area of Indian history, this paper will give the students the rudimentary knowledge on the establishment of British rule in India, the administrative reforms, socio-economic changes and above all the resistance against the British.
IV	Honours	CC-X	History of India (1857-1964 CE)	6	This is also a very important course which is in continuance with CC-IX. The course will provide the learners with a first hand knowledge regarding the Indian Freedom struggle against the British rule and subsequent outcome of independence and partition. The students will also have an idea on the historical incidents of Nehruvian years .
IV	Honours	SEC-II	Art Appreciation- An Understanding to Indian Art	4	The primary outcome of this course is to enhance the skill of the students by providing them with an idea of Indian built heritage - the evolution of Art and Architecture from the Mesolithic days of Bhimbetka to the Churches of Colonial era.
V	Honours	CC-XI	History of Modern Europe - (1789-1870 CE)	6	The students shall have the idea of important historical events of Modern Europe, such as, the French revolution and its aftermath, the triumph of nationalism and progressive ideas, the unification of Italy and Germany etc. This period of history is also of enormous importance.
V	Honours	CC-XII	Studying History Writing: Indian and Western	6	The students will be enriched with the theoritical aspects of historiography, how to write and study history and the different schools of history writing.



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V	Honours	DSE-I	Life & Culture of Pre Colonial Bengal (Prehistory to mid 18th c)	6	This paper will inculcate among the students the historical narratives of the homeland they live in, the local history of West Bengal before the commencement of the British Rule. A glimpse of micro level history is given to the students
V	Honours	DSE-II	Life and Culture in Colonial Bengal (1757-1947)	6	This course is in continuance with the earlier paper where the students can have a clear picture how Bengal was governed by the British Company and Government and what major changes occur in the life and culture of the Bengali people and how partition had shattered their dreams in life.
VI	Honours	CC-XIII	History of Modern Europe - (1871-1945 CE)	6	The outcome of this course is the enrichment of fundamental knowledge about the ill effects of imperialism and the coming of the two world wars and the devastation caused by those. It will also provide an idea of the first socialist revolution in the world.
VI	Honours	CC-XIV	Making of the Contemporary World	6	Being a very interesting and mind boggling paper this will enable the students with the understanding of more recent events like cold war, decolonization, terrorism, globalization and many other themes on international relations and politics.
VI	Honours	DSE-III	History of Modern East Asia (1840-1919)	6	This paper will provide the idea of transformation of China and Japan during the pre first world war period when colonial traits prevailed



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VI	Honours	DSE-IV	History of China and Japan (1919-1939 CE)	6	This paper is in continuation with the earlier and will provide the idea of emergence of modern China and Japan by defying the colonial prowess.
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Enlightenment through Education

Program and Course Outcome

Geography

Sl.No.	Subject / Department	Name of the Programme	Semester	Course Code	Course Title	Number of Credit	Course Outcome
1	Geography	BA HONOURS	1st	CC 1	GEOTECTONIC & GEOMORPHOLOGY	6	This course helps the student to understand the different physical features of earth surface as well as beneath the surface and role of ongoing processes to create such features. Such understanding will help to know our environment in better way for sustainable management.
2	Geography	BA HONOURS	1st	CC 2	CARTOGRAPHIC TECHNIQUES AND GEOLOGICAL MAP STUDIES	6	This paper helps students for making maps, read surface and sub-surface topography, and analysis different geographical data and make them a visual representation for interpretation of different geographical aspects, which could help in environmental planning and management.
3	Geography	BA HONOURS	2nd	CC 3	HUMAN GEOGRAPHY	6	This field of study will promote students to understand distribution and pattern of different attributes of society with detail evolution of human civilization and their relationship with environment.
4	Geography	BA HONOURS	2nd	CC 4	CARTOGRAMS, SURVEY AND THEMATIC MAPPING	6	This paper helps to represent geographical data for planning the environment.
5	Geography	BA HONOURS	3rd	CC 5	CLIMATOLOGY	6	This paper will help to understand that climatic characteristics of earth and role of climate on the distribution of different environmental characteristics.



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6	Geography	BA HONOURS	3rd	CC 6	STATISTICAL METHODS IN GEOGRAPHY	6	This paper will help to analysis numerical data of environment for prediction, and possibility to happened.
7	Geography	BA HONOURS	3rd	CC 7	GEOGRAPHY OF INDIA	6	Helps to know the physical and cultural diversity of India, to understand the environmental chracteristic of India.
8	Geography	BA HONOURS	4th	CC 8	REGIONAL PLANNING AND DEVELOPMENT	6	This course could improve the ethical issue and human values with the knowledge of regional disparity and prospect of development of specific region
9	Geography	BA HONOURS	4th	CC 9	ECONOMIC GEOGRAPHY	6	This course helps to enrich student with the understanding about the environmental sustainability by detail knowledge on renewable and non-renewable resources, their availability, and distribution; Student could understand the potential locations for renewable energy. The course also helps to understand the best agricultural and mining practices for environmental sustainability.
10	Geography	BA HONOURS	4th	CC 10	ENVIORNMENTAL GEOGRAPHY	6	This course helps to improve the knowledge of environmental sustainability with diverse knowledge on climate change, global warming, health issues, SDGs etc.
11	Geography	BA HONOURS	5th	CC 11	RESEARCH METHODOLOGY AND FIELD WORK	6	Proper undersatnding on Geographical Survey is an essential part to write scientific report on the environmental issues and sustainable management practice
12	Geography	BA HONOURS	5th	CC 12	REMOTE SENSING AND GIS	6	Remote Sending and GIS is very essential tool to monitor environmental changes and modelling to predict potentials losses in coming future and also can suggest to improve the quality of environment



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13	Geography	BA HONOURS	5th	DSE 1	URBAN GEOGRAPHY	6	This course can help to understand the human values, gender related issues in urban area through the study of dynamic characteristic of urban population. This course can also help to know the environmental effect of urbanization and their management.
14	Geography	BA HONOURS	5th	DSE 1	CULTURAL AND SETTLEMENT GEOGRAPHY	6	This course helps to improve the ethical perception, gender related issues and human values with the detail knowledge of Gandhian Approach of Rural Development, in particular the concept of “Ideal Village”. In addition, the concept of different social development project run by our government also helps to improve the gender discrimination and social improvement.
15	Geography	BA HONOURS	5th	DSE 2	POPULATION GEOGRAPHY	6	The knowledge of population dynamics and their characteristic can help in solving gender related issues, environmental degradation, and sustainable future.
16	Geography	BA HONOURS	5th	DSE 2	SOCIAL GEOGRAPHY	6	This course could help in improvement of human values, gender related issues, and human-environmental interaction for sustainable development, with diverse knowledge of human society.
17	Geography	BA HONOURS	6th	CC 13	EVOLUTION OF GEOGRAPHICAL THOUGHT	6	Helps to enrich the professional ethics, gender issues, human values and environmental approach with an holistic knowledge of philosophical background of this subject.
18	Geography	BA HONOURS	6th	CC 14	DISASTER MANAGEMENT	6	This course directly helps student with detail knowledge on environmental issues like environmental hazard and disaster management, assessment of risk and vulnerability of any particular hazard.



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19	Geography	BA HONOURS	6th	DSE 3	FLUVIAL GEOMORPHOLOGY	6	This course helps to know river system in detail for their sustainable development and conservation.
20	Geography	BA HONOURS	6th	DSE 3	RESOURCE GEOGRAPHY	6	This course helps to improve the knowledge of environmental sustainability on climate change issue and its mitigation
21	Geography	BA HONOURS	6th	DSE 4	SOIL AND BIO GEOGRAPHY	6	This course helps to enrich the knowledge of soil and biodiversity as essential elements of our environment, which can improve the view for their sustainable development.
22	Geography	BA HONOURS	6th	DSE 4	AGRICULTURAL GEOGRAPHY	6	With this course, the detailed knowledge of agriculture system helps to understand the role of environment on agriculture and their sustainable development.

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Enlightenment through Education

Program and Course Outcome

Philosophy

Semester	programme	Course Code	Course Title	Course Outcome
1	Honours	CC-1	Outline of Indian Philosophy-I	Overall concept of Indian Philosophy and tradition
1	Honours	CC-2	Outline of Western Philosophy-I	Overall concept of Western Philosophy and tradition
2	Honours	CC-3	Outline of Indian Philosophy-II	Overall concept of Indian Philosophy and tradition
2	Honours	CC-4	Outline of Western Philosophy-II	Overall concept of Western Philosophy and tradition
3	Honours	CC-5	Indian Ethics	Thorough knowledge of Indian ethics and values
3	Honours	CC-6	Western Ethics	Thorough knowledge of Western ethics and values
3	Honours	CC-7	Indian Logic	Concept of reasoning and of reaching conclusion with the help of Indian Logical Method
3	Honours	SEC-1	Philosophy in Practice	Aggrandisement of Skill in Philosophy
4	Honours	CC-8	Western Logic-1	Concept of reasoning and of reaching conclusion with the help of Western Logical Method
4	Honours	CC-9	Psychology	Knowledge of nature and feature of mind and basic concept of getting rid of different mental problems



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4	Honours	CC-10	Philosophy of Religion	Knowledge and concept of Religion in the light of Philosophy and thereby eradication of existing superstitions in the name of Religion
4	Honours	SEC-2	Philosophy of Human Rights	concept of Human Rights with philosophical illustration
5	Honours	CC-11	Socio- Political philosophy	Knowledge of different philosophical Concept related to society and political institution
5	Honours	CC-12	Western Logic-II	Concept of reasoning and of reaching conclusion with the help of Western Logical Method
5	Honours	DSE-1	kathopanisad	Knowledge and conception of the upanisadic view on soul and its relation with body
5	Honours	DSE-2	B.Russell- The Problems of Philosophy	Profound knowledge of Russell's discussion and criticism on the different issues of Traditional Western Philosophy
6	Honours	CC-13	philosophy in the Twentieth Century: Indian	Knowledge of different contemporary Indian philosophers' views on traditional Indian Philosophy
6	Honours	CC-14	philosophy in the Twentieth Century: Western	Knowledge of different contemporary Western philosophers' views on traditional Western Philosophy
6	Honours	DSE-3	Rabindra Nath Tagore-Sadhana	Knowledge of Tagore's Philosophical concept on different traditional Indian Philosophical issues



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6	Honours	DSE-4	Hume- An Enquiry concerning Human Understanding	Profound knowledge of Hume's discussion on the different epistemic and metaphysical issues of Western Philosophy
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Enlightenment through Education

Program and Course Outcome

Political Science

Sl.No.	Subject / Department	Name of the Programme	Semester	Course Code	Course Title	Number of Credit	Course Outcome
1	POLITICAL SCIENCE	BA HONOURS	1st	CC1	WESTERN POLITICAL THOUGHT	6	This course helps the students to gather knowledge about Western political thought and thinkers like Plato, Aristotle, Hegel, Marx and others. This helps the students to acquaint with the basic concepts of Western political thought like utilitarianism, Marxism, liberalism which facilitates them to acquire knowledge about diverse concepts. Students can acquire knowledge about political thinkers from the medieval period like St. Augustine and Machiavelli to Marxian political thinkers. Ideas about the theories of Hobbes, Locke and Rousseau help the students to acquire knowledge about them.
2	POLITICAL SCIENCE	BA HONOURS	1st	CC2	POLITICAL THEORY	6	Students will acquire a general concept of theory building that would be beneficial in preparing the foundation.



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3	POLITICAL SCIENCE	BA HONOURS	2nd	CC3	INDIAN POLITICAL THOUGHT	6	This paper will enable the students to get an idea of Indian political thinkers from ancient times to the modern period.
4	POLITICAL SCIENCE	BA HONOURS	2nd	CC4	INDIAN GOVERNMENT AND POLITICS	6	This paper helps the students in gaining knowledge about the largest democracy of the world. Students can gain idea about the philosophy of the Indian Constitution, get the knowledge about their rights and duties and understand the basic features of the Indian constitutional system. This would help them to understand their country, the laws and regulations and the basic structure of the Indian political system.
5	POLITICAL SCIENCE	BA HONOURS	3rd	CC5	COMPARITIVE POLITICS	6	This paper familiarise the students with the constitution of other countries like USA, UK, France. This helps them to make a comparative study of the different constitutions of the world.
6	POLITICAL SCIENCE	BA HONOURS	3rd	CC6	PUBLIC ADMINISTRATION	6	This paper introduces the students with the key concepts of public administration including the contemporary theories and major approaches of public administration and public management.
7	POLITICAL SCIENCE	BA HONOURS	3rd	CC7	LOCAL GOVERNMENT IN INDIA	6	This paper helps the students to understand the evolution and institutions of local self government in India.



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8	POLITICAL SCIENCE	BA HONOURS	3rd	SEC1	LEGISLATIVE SUPPORT	4	This paper helps the students to understand the powers and functions of parliament and state legislative assemblies, law making procedure and the overall functioning of the parliamentary system in India.
9	POLITICAL SCIENCE	BA HONOURS	4th	CC8	INTERNATIONAL RELATIONS	6	This paper introduces students with the nature and scope of international relations, the evolution of IR as a discipline and helps the students to evaluate issues like globalization, terrorism and understand foreign policy and diplomacy.
10	POLITICAL SCIENCE	BA HONOURS	4th	CC9	SOCIOLOGY AND POLITICS	6	To understand the concept of political sociology, political culture, participation, socialization.
11	POLITICAL SCIENCE	BA HONOURS	4th	CC10	INTERNATIONAL ORGANIZATIONS	6	This paper will help the students to understand the evolution and the functioning of different international organizations. Students can develop a better understanding of the UNO and several regional organizations like APEC and OPEC. They can analyse the role of regional organizations like SAARC, ASEAN, BRICS.
12	POLITICAL SCIENCE	BA HONOURS	4th	SEC2	DEMOCRATIC AWARENESS THROUGH LEGAL LITERACY	4	This paper makes the students aware of the democratic rights and duties. Students can learn about laws related to dowry, sexual harrassments, anti-terrorist laws.



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13	POLITICAL SCIENCE	BA HONOURS	5th	CC11	SOCIAL MOVEMENTS IN INDIA	6	The students will get an overview about the concepts of social movements like the Telengana and Tebhaga movement, Chipko, Narmada Bachao Andolan etc.
14	POLITICAL SCIENCE	BA HONOURS	5th	CC12	ELEMENTARY RESEARCH METHODS IN POLITICAL SCIENCE	6	This paper will introduce the students to the meaning and objective of social science research. It will help the students to understand the concepts of qualitative and quantitative research and understand the major methods and techniques of data collection in research.
15	POLITICAL SCIENCE	BA HONOURS	5th	DSE1	SELECT COMPARITIVE POLITICAL THOUGHT	6	This paper familiarise the students with the ideas of Kautilya, Gandhi, Tilak, Ambedkar, Nehru, Jayprakash Narayan also our western thinkers like Mill, Rousseau.
16	POLITICAL SCIENCE	BA HONOURS	5th	DSE2	DEMOCRACY AND DECENTRALIZED GOVERNANCE	6	This paper helps the students to elaborate the evolution of state system and the concept of sovereignty. The purpose of this paper is to acquaint the students with the various dynamics of civil society like new social movement, NGO, MNCs and global economic order.
17	POLITICAL SCIENCE	BA HONOURS	6th	CC13	INDIAN FOREIGN POLICY	6	The main objective of this paper is to help the students to develop an insight about India's foreign policy and India's bilateral relations with countries like Pakistan, Bangladesh, China, Nepal, Bhutan and to examine the recent trends.



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18	POLITICAL SCIENCE	BA HONOURS	6th	CC14	CONTEMPORARY ISSUES IN INDIA	6	This paper will introduce the students to several contemporary issues in India like the caste system, secularism, communalism and to understand the legal provisions available for women, children and person with disabilities.
19	POLITICAL SCIENCE	BA HONOURS	6th	DSE3	LOCAL GOVERNMENT IN WEST BENGAL	6	This paper helps the students to understand the evolution and institutions of local self government in West Bengal.
20	POLITICAL SCIENCE	BA HONOURS	6th	DSE4	UNDERSTANDING GLOBALIZATION	6	This paper helps the students to acquire knowledge about meanings and debates of globalization and evaluate the impact of globalization on Indian economy and new international economic order.




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Program and Course Outcome

Economics Honours

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-1	Introductory Microeconomics	6	The outcome of this paper is to understand the economic behaviour of individuals, firms and markets. It is mainly help the students to understand various aspects of consumer behaviour and Economic Welfare, Firm Behaviour and theories of imperfect markets and equilibrium in different conditions.
I	Honours	CC-2	Statistics-I	6	This course will provide the students with a thorough knowledge on basic statistical techniques. Statistical Techniques are discussed with examples from economics.
II	Honours	CC-3	Introductory Macroeconomics	6	Macroeconomics provides an idea of elementary theoretical foundation of key issues and polices. It attempts to discuss the functional relationship between aggregates.
II	Honours	CC-4	Mathematical Economics-I	6	The course content is diversified and the students can develop mathematical approach in analysis of economic problems. It mainly focuses on those mathematical technique which are directly useful in economic analysis.
III	Honours	CC-5	Intermediate Microeconomics	6	The outcome of this paper is to understand the economic behaviour of individuals, firms and markets. It is mainly help the students to understand various aspects of consumer behaviour and Economic Welfare, Firm Behaviour and theories of imperfect markets and equilibrium in different conditions.
III	Honours	CC-6	Intermediate Macroeconomics	6	Macroeconomics provides an idea of elementary theoretical foundation of key issues and polices. It attempts to discuss the functional relationship between aggregates.
III	Honours	CC-7	Mathematical Economics -II	6	The course content is diversified and the students can develop mathematical approach in analysis of economic problems. It mainly focuses on those mathematical technique which are directly useful in economic analysis.



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III	Honours	SEC-I	Managerial Economics	2	Managerial Economics helps to apply micro economic concepts and techniques in evaluating business decisions taken by firms. The emphasis is on explaining how tools of standard price theory can be employed to formulate a decision problem, evaluate alternative courses of action and finally choose among alternatives.
IV	Honours	CC-8	Selected Features of Indian Economy	6	Contemporary Issues in Indian Economy shall provide basic knowledge on national income accountings, various issues involved in agricultural, industrial, financial, trade sectors, public institutions and finally human resources development. This paper is of immense importance in the light of competitive examinations conducted by UPSC and PSC.
IV	Honours	CC-9	Statistics-II	6	This Paper will provide the students with a thorough knowledge on basic statistical techniques. Statistical Techniques are discussed with examples from economics.
IV	Honours	CC-10	Development Economics	6	The paper provides fundamental of basic growth and development issues, approaches and models. It helps to understand the overall static and dynamic perspectives of the economy in a purely theoretical perspective.
IV	Honours	SEC-2	Indian Stock Market Trading	2	Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
V	Honours	CC-11	International Economics	6	To provide strong theoretical background to the students on the subject of international economics, It helps to understand the empirical aspects such as trade reforms and their impact on India economy.
V	Honours	CC-12	Money and Banking	6	Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
V	Honours	DSE-1	Rural Development/Selected Features of West Bengal	6	Students have been introduced with the characteristic features of the economy of West Bengal. Through this course they also have come to know the performance of the primary,



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					secondary and tertiary sectors of West Bengal along with the problems associated with it.
V	Honours	DSE-2	Public Economics/ Environmental Economics	6	Considering the increasing role of Government in economy, this paper aims to generate theoretical and empirical understanding of students about different aspect of Governmental activities and their rationality. It covers fundamental concepts of public economics, public expenditure, public revenue, and public debt with special reference of Indian economy.
VI	Honours	CC-13	Basic Econometrics	6	This is a course in linear regression analysis. It deals with the application of statistical tools for estimating economic relationships, testing economic hypotheses and forecasting.
VI	Honours	CC-14	Field Survey and Project Report	6	Field survey helps to collect information about the chosen problem for which varied types of tools are required. These include secondary information, field observation, data generated by interviewing people through questionnaires. Finally analyse data on the basis of economic performance.
VI	Honours	DSE-III	Social Economics/ Political Economy	6	Social economics certainly exerts a profound impact on the lives of individuals, and their socioeconomic status may strongly influence their future achievements, level of education, and degree of financial security.
VI	Honours	DSE-IV	Entrepreneurship Development/Financial Economics	6	Learners will identify the type of entrepreneur and the steps involved in an entrepreneurial venture. It helps to explore marketing methods & new trends in entrepreneurship.

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Program and Course Outcome Accountancy

Semester	Programme	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-1	Financial Accounting-I	6	The objective of this paper is to help students acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
I	Honours	CC-2	Business Management	6	The objective of the course is to provide the student with an understanding of basic management concepts, principles and practices.
I	Honours	GE-1	Business Mathematics	6	The objective of this course is to familiarize the students with the basic mathematical tools and with an emphasis on applications to business and economic situations.
II	Honours	CC-3	Cost Accounting-I	6	To understand the basic concepts and processes used to determine product costs and able to interpret cost accounting statements and able to analyse and evaluate information for cost ascertainment, planning, control and decision making.
II	Honours	CC-4	Business Law	6	The objective of the course is to impart basic knowledge of the important business legislation along with relevant case law.



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II	Honours	GE-2	Business Statistics	6	The objective of this course is to familiarize the students with the basic statistical tools with an emphasis on applications to business and economic situations
III	Honours	CC-5	Computer Applications in Business	6	To provide computer skills and knowledge for commerce students and to enhance the student understands of usefulness of information technology tools for business operations.
III	Honours	CC-6	Cost Accounting-II	6	To understand the various methods and techniques involved in cost ascertainment and to be able to analyse and evaluation information for cost planning, control and decision making.
III	Honours	CC-7	Financial Accounting-II	6	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
III	Honours	SEC-1	E-Commerce	2	The objective of the paper is to help students learn the concepts, vocabulary and procedures associated with E-Commerce and the Internet.
III	Honours	GE-3	Principles of Economics	6	The objective of this course is to acquaint the students with the basic principles of economics.



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IV	Honours	GE-4	Indian Economy	6	This course seeks to enable the student to grasp the major economic problems in India and their solution.
IV	Honours	CC-8	Financial Accounting-III	6	The objective of this paper is to help students to acquire conceptual knowledge of the corporate accounting and to impart skills for recording various kinds of corporate transactions.
IV	Honours	CC-9	Marketing Management & Human Resource Management	6	The objective of the course is to provide basic knowledge of concepts, principles, tools and techniques of marketing and human resource management.
IV	Honours	SEC-2	Entrepreneurship	2	The purpose of the paper is to orient the learner toward entrepreneurship as a career option, creative thinking and behavior.
IV	Honours	CC-10	Corporate Laws	6	The objective of the course is to impart basic knowledge of the important corporate legislations along with relevant case laws.
V	Honours	CC-11	Taxation-I	6	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961.



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V	Honours	CC-12	Auditing	6	To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.
V	Honours	DSE-1	Management Accounting	6	To impart knowledge to the students about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.
V	Honours	DSE-2	Indian Financial System	6	To provide the student a basic knowledge of financial markets and institutions and to familiarise them with major financial services in India.
VI	Honours	CC-13	Fundamentals of Financial Management	6	To familiarize the students with the principles and practices of financial management.
VI	Honours	CC-14	Taxation-II	6	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and GST



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VI	Honours	DSE-3	Tax Procedures and Management	6	To provide basic knowledge of business tax procedures and management under different provisions of the Income tax.
VI	Honours	DSE-4	Project Work	6	Project topics for commerce would involve researching how technological innovations such as artificial intelligence, machine learning, block chain technology, and data analytics have impacted the financial industry.
			Management		




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Enlightenment through Education

Program and Course Outcome

Mathematics

Semester	Program	Course Code	Course Title	Credit	Course Outcomes
I	Honours	CC-1	Calculus, Geometry & Differential Equations	6	In this course each unit covers different aspects of mathematics, ranging from hyperbolic functions, higher-order derivatives, Leibnitz rule, applications in business, economics, and life sciences to reduction formulae, integration techniques, conics, quadric surfaces, and differential equations with mathematical models. Overall, the course seems to provide a comprehensive understanding of advanced calculus, differential equations, and their applications in various fields.
I	Honours	CC-2	Algebra	6	These course outcomes cover a broad range of topics in Complex Numbers, Theory of Equations, Inequalities, and Linear Algebra. Students completing the course should have a solid understanding of these mathematical concepts and their applications. Below are the main outcomes covered in this course: <ul style="list-style-type: none"> • Understanding complex numbers in polar form, calculate n-th roots of unity. • Understanding and applying De Moivre's theorem for rational indices. • Practical applications in solving complex equations. • Techniques for solving systems of linear equations, Applications of linear systems. Understanding row reduction and echelon forms of matrices, etc
II	Honours	CC-3	Real Analysis	6	This course will have a strong understanding of



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					<p>fundamental concepts in real analysis, including properties of real numbers, sequences, and infinite series. Here are the expected course outcomes:</p> <ul style="list-style-type: none"> • Understand the algebraic and order properties of real numbers. • Distinguish between countable and uncountable sets; comprehend the uncountability of \mathbb{R}. • Define sequences and understand the concepts of bounded and convergent sequences. <p>Define and understand monotone sequences and the Monotone Convergence Theorem.</p>
II	Honours	CC-4	Differential Equations and Vector Calculus	6	<p>These course outcomes cover a broad range of topics in Differential Equations and Vector Calculus. Below are the main outcomes covered in this course:</p> <ul style="list-style-type: none"> • Lipschitz condition and Picard's Theorem (Statement only). • General solution of homogeneous equation of second order. • Wronskian: its properties and applications. <p>Apply Euler's equation to solve differential equations, etc.</p>
III	Honours	CC-5	Theory of Real Functions & Introduction to Metric Spaces	6	<p>The expected course outcomes are given below:</p> <ul style="list-style-type: none"> • Understand the concept of limits of functions using the ϵ-δ approach. • Analyze limit theorems, including one-sided limits and limits at infinity • Understand open and closed balls, neighborhoods, open sets, and the interior of a set. <p>Study Taylor's theorem with Lagrange's form of remainder and Cauchy's form of remainder, etc.</p>
III	Honours	CC-6	Group Theory I	6	<p>This course appears to cover a comprehensive range of</p>



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					<p>topics in group theory, from basic definitions to advanced theorems and their applications. Here are the expected course outcomes:</p> <ul style="list-style-type: none"> • Introduction to abstract algebraic structures with examples like permutation groups and quaternion groups (represented through matrices). • Applications of Lagrange's theorem, etc.
III	Honours	CC-7	Numerical Methods & Numerical Methods Lab	6	<p>The course cover various topics in numerical methods and computational mathematics. Here are the potential course outcomes:</p> <ul style="list-style-type: none"> • Understand and apply algorithms in numerical computations. • Apply the Bisection, Newton's, Secant, Regula-falsi, fixed point iteration, and Newton-Raphson methods for solving transcendental and polynomial equations. <p>Apply Gauss Jacobi and Gauss Seidel methods and analyze their convergence, etc.</p>
III	Honours	SEC-1	Logic and Sets	2	<p>This course aims to equip students with a strong foundation in propositional logic, set theory, and relations. Students should be able to apply these concepts to solve problems and analyze real-world scenarios that involve logical reasoning and set operations.</p>
IV	Honours	CC-8	Riemann Integration and Series of Functions	6	<p>This course appears to provide a comprehensive understanding of advanced calculus concepts, including various types of integrals, convergence of sequences and series of functions, and the study of Fourier series and power series. Students are likely to gain a strong foundation in theoretical and applied aspects of calculus through this course.</p>



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IV	Honours	CC-9	Multivariate Calculus	6	<p>Here are the potential course outcomes:</p> <ul style="list-style-type: none"> • Understand limits and continuity for functions of multiple variables. • Learn how to take partial derivatives of functions with respect to multiple variables. • Learn about Jacobian matrices and their applications. <p>Calculate volumes using triple integrals in different coordinate systems, etc.</p>
IV	Honours	CC-10	Ring Theory and Linear Algebra I	6	<p>The course covers fundamental topics in abstract algebra and linear algebra. Each unit seems to build on the previous one, providing a comprehensive understanding of algebraic structures and linear transformations. Here are some expected outcomes:</p> <ul style="list-style-type: none"> • Understand and apply various properties of rings. • Define integral domains and fields and recognize their properties. • Define integral domains and fields and recognize their properties. <p>Understand the concepts of basis and dimension, etc.</p>
IV	Honours	SEC-2	Graph Theory	2	<p>This course covers fundamental concepts in graph theory, including basic definitions, types of graphs, properties of graphs, Eulerian and Hamiltonian paths, matrix representations of graphs, weighted graphs, and algorithms for solving practical problems such as the traveling salesman's problem and finding the shortest path in a graph. Students taking this course can expect to gain a solid understanding of these graph theory concepts and their applications.</p>
V	Honours	CC-11	Partial Differential Equations and Applications	6	<p>The outcomes for the mentioned course can be summarized as follows: Gain a thorough understanding of basic concepts and</p>



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					<p>definitions related to partial differential equations. Develop the ability to formulate and solve mathematical problems involving partial differential equations. Students should be able to derive the heat equation, wave equation, and Laplace equation from appropriate physical contexts, etc.</p>
V	Honours	CC-12	Mechanics I	6	<p>This course covers a broad range of topics in classical mechanics, providing a comprehensive understanding of statics, dynamics, and rigid body motion. Below are the main outcomes:</p> <ul style="list-style-type: none"> • Understanding and analyzing forces acting in the same plane. • Exploring the effects of friction on objects and surfaces. • Analyzing equilibrium conditions for a particle on a curved surface with friction. • Differentiating between stable and unstable equilibrium situations, etc.
V	Honours	DSE-1	Linear Programming	6	<p>Linear programming (LP) is a mathematical optimization technique used for finding the best outcome in a mathematical model with linear relationships. Courses on linear programming typically cover a range of topics, and the outcomes can vary based on the level and focus of the course. However, here are some common course outcomes associated with linear programming:</p> <ul style="list-style-type: none"> • Define and understand the basic concepts of linear programming. • Apply the simplex method to solve optimization problems with multiple variables. <p>Understand the duality concept and its applications in linear programming, etc.</p>



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V	Honours	DSE-2	Probability & Statistics	6	This course cover fundamental concepts in probability theory, random variables, joint distributions, expectations, conditional probabilities, statistical inference, and hypothesis testing. The course seems to progress from basic probability concepts to more advanced topics such as Markov Chains and hypothesis testing.
VI	Honours	CC-13	Metric Spaces and Complex Analysis	6	The course seems to be focused on real and complex analysis, specifically covering topics related to metric spaces, continuity, compactness, complex analysis, and power series. Here are the expected outcomes: <ul style="list-style-type: none"> • Understand the concept of metric spaces. • Examine connectedness and connected subsets of \mathbb{R}. • Understand compactness, sequential compactness, and the Heine-Borel property. Explore analytic functions and examples, etc.
VI	Honours	CC-14	Ring Theory and Linear Algebra II	6	The course outcomes are given below: <ul style="list-style-type: none"> • Understanding polynomial rings over commutative rings. • Knowledge of principal ideal domains and their significance. • Skill in factorization of polynomials and understanding reducibility tests. Application of Least Squares Approximation in linear algebra, etc.
VI	Honours	DSE-3	Project Work	6	The course outcomes for a project work can vary depending on the program, and specific course requirements. Here are some potential course outcomes: <ul style="list-style-type: none"> • Develop the ability to identify, analyze, and solve mathematical problems. • Acquire proficiency in conducting independent



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					research, including literature review, data collection, and analysis. Gain proficiency in using mathematical software, programming languages, and other technical tools relevant to the chosen project, etc.
VI	Honours	DSE-4	Mechanics II	6	Students completing this course should have a solid understanding of classical mechanics, fluid equilibrium, thermodynamics, and principles of constraints in physics. They should also be able to apply these concepts to solve complex problems in the respective domains. They can apply the principle in relevant physics problems, analyze isothermal and adiabatic changes in gases etc.



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Hooghly, W.B., Pin:712138



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Enlightenment through Education

Program and Course Outcome

Physics

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	Honours	CC-I	Mathematical Physics-I	6	This course introduces advanced mathematical techniques and computer programming essential for understanding and solving physical problems in classical mechanics, electromagnetism, and quantum mechanics
I	Honours	CC-II	Mechanics	6	This paper will provides a comprehensive understanding of classical mechanics, covering topics such as kinematics, dynamics, and conservation laws, with an emphasis on analytical and problem-solving skills
II	Honours	CC-III	Electricity and Magnetism	6	This paper integrates theoretical principles with hands-on experiments, fostering a deep understanding of electromagnetism and advanced problem-solving skills in the domain of electricity and magnetism
II	Honours	CC-IV	Waves and Optics	6	This course combines theoretical understanding with practical experiments, developing expertise in wave phenomena and optics for advanced applications in physics
III	Honours	CC-V	Mathematical Physics-II	6	This core course integrates advanced theoretical concepts with computer-based experiments, enabling students to deepen their understanding and apply advanced mathematical methods to solve complex problems in physics
III	Honours	CC-VI	Thermal Physics	6	Thermal Physics provides a theoretical foundation and practical experience, enabling students to analyze and apply principles of heat and thermodynamics in diverse physical systems



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III	Honours	CC-VII	Digital System and Applications	6	This paper explores theoretical principles and hands-on experiments, developing expertise in digital electronics, logic design, and practical applications for advanced problem-solving in the field
III	Honours	SEC-1	Renewable Energy	2	This skill enhancement course provides a contemporary knowledge of renewable energy sources and its application for a better and carbon free life.
IV	Honours	CC-VIII	Mathematical Physics-III	6	This core course integrates advanced theoretical concepts with computer-based experiments, enabling students to deepen their understanding and apply advanced mathematical methods to solve complex problems in physics
IV	Honours	CC-IX	Elements of Modern Physics	6	Elements of Modern Physics course integrates theoretical principles with experimental applications, fostering a comprehensive understanding of key concepts in contemporary physics, including quantum mechanics, radioactivity and laser
IV	Honours	CC-X	Analog Systems and Applications	6	Analog Systems and Application paper provides theoretical insights and practical experience, enabling students to design, analyze, and implement analog electronic systems for various applications
IV	Honours	SEC-2	Computational Physics Skill	2	This course enrich students to improve their programming skill to solve complicated physics problem with the help of computer
V	Honours	CC-XI	Quantum Mechanics and Applications	6	This course integrates theoretical foundations with computer-based experiments, empowering students to comprehend and apply quantum principles for diverse applications in physics and technology
V	Honours	CC-XII	Solid State Physics	6	The Solid State Physics paper integrates theoretical principles with experimental techniques, fostering a deep understanding of the properties and behaviors of condensed matter, and providing skills for advanced material analysis and design
V	Honours	DSE-1	Advanced Mathematical Physics	6	This special paper integrates advanced theoretical concepts with computer-based experiments, empowering students to explore and apply sophisticated mathematical techniques to solve complex problems in physics



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V	Honours	DSE-2	Classical Dynamics	6	This special paper imparts advanced theoretical knowledge, equipping students to analyze and model the motion of particles and systems, and apply classical mechanics principles to complex physical scenarios
VI	Honours	CC-XIII	Electromagnetic Theory	6	The Electromagnetic Theory paper cultivates advanced understanding and practical skills in the principles of electromagnetic fields, waves, and their applications through theoretical insights and hands-on experimentation
VI	Honours	CC-XIV	Statistical Mechanics	6	The Statistical Mechanics course combines theoretical foundations with computer-based experiments, enabling students to analyze and model complex systems, gaining insights into the statistical behavior of particles and physical phenomena
VI	Honours	DSE-3	Nuclear and Particle Physics	6	This special topic imparts advanced knowledge of nuclear structures, interactions, and elementary particles, cultivating skills for theoretical analysis in the realm of subatomic physics
VI	Honours	DSE-4	Astronomy and Astrophysics	6	This topic provides a deep understanding of celestial phenomena, galactic structures, and cosmological principles, fostering advanced analytical skills in astrophysical research




Dr. Arghya Bandyopadhyay

Principal

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Program and Course Outcome

Chemistry

Sl.No.	Subject / Department	Name of the Programme	Semester	Course Code	Course Title	Number of Credit	Course Outcome
1	Chemistry	B.Sc General	1st	CC-1A/GE-1	Atomic structure, chemical periodicity, acids and bases, redox reactions, general organic chemistry of aliphatic hydrocarbons	6 (Th:4; Pr:2)	<i>A student will be able to learn about basic general chemistry and organic chemistry to understand next semester chemistry course.</i>
2	Chemistry	B.Sc. Hons	1st	CC-1	Organic Chemistry-1	6 (Th:4; Pr:2)	<i>It will help students to understand the mechanistic path of organic reactions and their optical properties.</i>
3	Chemistry	B.Sc. Hons	1st	CC-2	Physical Chemistry -1	6 (Th:4; Pr:2)	<i>Concept of thermodynamics and kinetics of reactions to under the endothermic and exothermic chemical reactions and their mechanistic path ways suggested based on chemical kinetic.</i>
4	Chemistry	B.Sc General	2nd	CC-1B/GE-2	States Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure	6 (Th:4; Pr:2)	<i>A student will be able to understand physical properties of solids, liquids and gases, bonding nature in chemical compounds and properties p block elements.</i>



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5	Chemistry	B.Sc. Hons	2nd	CC-3	Inorganic Chemistry-1	6 (Th:4; Pr:2)	<i>Students will get preliminary idea about Atomic spectra, basic quantum chemistry, electronegativity, electron affinity, concept redox reactions and precipitation reactions.</i>
6	Chemistry	B.Sc. Hons	2nd	CC-4	Organic Chemistry-II	6 (Th:4; Pr:2)	<i>Students will be able to understand about chirality, reaction thermodynamics, different intermediates, tautomerism, substitution and elimination reaction.</i>
7	Chemistry	B.Sc General	3rd	CC1C/G E-3	Chemical Energetics, Equilibria, Organic Chemistry-II	6 (Th:4; Pr:2)	<i>Concept of 1st and 2nd law thermodynamics, shifting of equilibrium due to change in external parameters, effect of inert gas on chemical equilibrium and basics of organic chemistry will help a student to prepare himself/herself for the next semester.</i>
8	Chemistry	B.Sc. Hons	3rd	CC-5	Physical Chemistry-II	6 (Th:4; Pr:2)	<i>Physical properties of liquid and its experimental verification along application of quantum chemistry.</i>
9	Chemistry	B.Sc. Hons	3rd	CC-6	Inorganic Chemistry-II	6 (Th:4; Pr:2)	<i>Thorough knowledge of different kinds bonding, concept radio activity and its application in various fields of modern science & technology.</i>
10	Chemistry	B.Sc. Hons	3rd	CC -7	Organic Chemistry-III	6 (Th:4; Pr:2)	<i>Important alkene and alkyne addition reactions, understanding of Name reactions and use of organometallic chemistry in catalysis.</i>
11	Chemistry	B.Sc. Hons	3rd	SEC-1	Basic Analytical Chemistry	2	<i>Analysing and use of experimental data, use of pH meter in soil analysis, water analysis and purifications, purification of organic compounds using chromatographic analysis, use of chemistry in cosmetics.</i>



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12	Chemistry	B.Sc General	4th	CC-1D /Ge-4	Solutions, Phase Equilibria, Conductance, Electrochemistry & Analytical and Environmental Chemistry	6 (Th:4; Pr:2)	<i>Use of physical chemistry in phase equilibrium processes such as liquid -vapour equilibrium, liquid - solid equilibrium, applications of electrochemistry in potentiometric measurements and understanding of environmental chemistry and its application in BOD, COD, TDS analysis of water bodies.</i>
13	Chemistry	B.Sc. Hons	4th	CC-8	Physical Chemistry-III	6 (Th:4; Pr:2)	<i>Applications of thermodynamics and electrical properties of molecules, quantum chemistry related to theoretical studies of molecules etc can be studied by a student.</i>
14	Chemistry	B.Sc. Hons	4th	CC-9	Inorganic Chemistry-III	6 (Th:4; Pr:2)	<i>Students can gather knowledge about applications of chemistry in metallurgy, chemical properties of s-p block elements, applications of silicones , industrial use of chemicals etc</i>
15	Chemistry	B.Sc. Hons	4th	CC-10		Organic Chemistry-IV	6 (Th:4; Pr:2)
16	Chemistry	B.Sc. Hons	4th	SEC-2	Pharmaceuticals Chemistry	2	<i>Use of chemistry in drug synthesis and its use may be applicable for industry related jobs.</i>
17	Chemistry	B.Sc General	5th	DSE-1A	Transition Metal & Coordination Chemistry, Analytical and Industrial Chemistry	6 (Th:4; Pr:2)	<i>A student acquires the skill of complexometric titrations involving metal ions such as Mg^{+2}, Zn^{+2} etc and analytical measurements.</i>
18	Chemistry	B.Sc. Hons	5th	CC-11	Inorganic Chemistry-IV	6 (Th:4; Pr:2)	<i>A student can gather knowledge of coordination chemistry and its application in bio -inorganic chemistry field.</i>



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19	Chemistry	B.Sc. Hons	5th	CC-12	Organic Chemistry -V	6 (Th:4; Pr:2)	<i>This chapter helps a student to get the idea of preparation of heterocyclic compounds via different Name Reactions and its application in medicinal chemistry. Besides these one can get the idea about pericyclic reactions, carbohydrates, important biomolecules, alkaloids, terpenoids and their specific applications.</i>
20	Chemistry	B.Sc. Hons	5th	DSE-1	Advanced Physical Chemistry	6 (Th:4; Pr:2)	<i>A student acquires the knowledge of different forms of solids, statistical thermodynamics, polymer synthesis, diffraction and its application in spectroscopy.</i>
21	Chemistry	B.Sc. Hons	5th	DSE-2	Analytical methods in chemistry	6 (Th:4; Pr:2)	<i>This paper gives an idea how spectroscopy is helpful to identify the organic molecules and also helps a student to know about the purification process to isolate a compound in very pure form.</i>
22	Chemistry	B.Sc General	6th	DSE-1B	Functional Group Organic Chemistry and Industrial Chemistry	6 (Th:4; Pr:2)	<i>A student gets the flavour of preparation, synthetic routes and mechanistic pathways of organic chemistry involving carboxylic acids and their derivatives, amines and diazonium salts along with the methods of preparation and industrial applications of polymers, paints, synthetic dyes, drugs, oils and fats, soaps and detergents, pesticides and food additives.</i>
23	Chemistry	B.Sc. Hons	6th	CC-13	Inorganic Chemistry -V	6 (Th:4; Pr:2)	<i>Biological application of important metal ions, enzymes and uses of organometallic compounds as catalysts.</i>



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24	Chemistry	B.Sc. Hons	6th	CC-14	Physical Chemistry-IV	6 (Th:4; Pr:2)	<i>Identification of organic and inorganic compounds by IR, UV, Microwave, Raman spectroscopy and different kinds of physical phenomena like, surface tension, adsorption and application of colloids in medicine.</i>
25	Chemistry	B.Sc. Hons	6th	DSE-3	Polymer Chemistry	6 (Th:4; Pr:2)	<i>One can get the idea of classification of polymers, preparation, structure, and physical, chemistry properties and along with its applications in various industrial fields.</i>
26	Chemistry	B.Sc. Hons	6th	DSE-4	Dissertation followed by Power Point Presentation	6	<i>At the end semester, a student can get a scope to work with a departmental teacher, studies thoroughly the allotted topic, do some experimental work, established the results & discussion part and important conclusions thorough power point presentations. Link for Power Point Presentations of final year students given :https://drive.google.com/drive/folders/1qMFl_B4LnPVJ1huKp4IjduwiLEvSaLP1?usp=sharing</i>




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Enlightenment through Education

Program: BA General Program and Course Outcome Bengali General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	General	CC/ GE-I/II-A	প্রবন্ধ সাহিত্য: বঙ্কিমচন্দ্র ও রবীন্দ্রনাথ	6	এই কোর্সের উদ্দেশ্য বাংলা প্রবন্ধসাহিত্যের সাথে প্রাথমিক পরিচিতি দান। বঙ্কিমচন্দ্র চট্টোপাধ্যায়ের রম্যরচনার আড়ালে গভীর মনস্তাত্ত্বিক সমাজবীক্ষণ এবং রবীন্দ্রভাবনায় সাহিত্যের উদ্দেশ্য ও গতিপ্রকৃতির প্রাথমিক পরিচয় দান। শিক্ষার্থীরা এই কোর্সে বঙ্কিমচন্দ্রের ও রবীন্দ্রনাথের সাহিত্য ও সমাজ ভাবনার সাথে পরিচয় লাভ করবে।
II	General	CC/ GE-I/II-B	গল্প - প্রভাতকুমার ও শরৎচন্দ্র	6	এই কোর্সে ছোটগল্পের মনোগ্রহীতা ও রবীন্দ্র সমসাময়িক বাংলা সাহিত্যে সার্থক ছোটগল্পের গতিপথের সাথে পরিচিতি লাভ করবে।
II	General	L2 - 1	বাংলা ছোটগল্প	6	শিক্ষার্থীরা এই কোর্সে কয়েকজন ছোটগল্পকারের লেখার সাথে পরিচয় লাভ করল
III	General	CC/ GE-I/II-C	বাংলা সাহিত্যের ইতিহাস	6	এই কোর্সে শিক্ষার্থীরা বাংলা সাহিত্যের ইতিহাসের ব্যাপ্তি সম্পর্কে জ্ঞান লাভ করতে পারলো ও তার সাথে সাথে নির্বাচিত কিছু সাহিত্যিকের সাহিত্যকৃতির পরিচয় ও তাদের সাহিত্যের প্রভাব সম্পর্কে সম্যক জ্ঞান লাভ করলো।
III	General	SEC-I	বাংলা ব্যাকরণ	2	এই কোর্সে শিক্ষার্থীদের বাংলা ব্যাকরণের সাথে পরিচয়, শুদ্ধ রচনার ক্ষেত্রে সঠিক শব্দ ব্যবহার, কারক ও সমাসের সঠিক ধারণা লাভ করতে পারলো।
IV	General	CC/ GE-I/II-D	ভাষাতত্ত্ব	6	এই কোর্সে শিক্ষার্থীরা বাংলা ভাষাতত্ত্ব সম্পর্কে সঠিক ধারণা পেল। বাংলা ভাষার উৎস, অঞ্চলভিত্তিক কথ্য এবং লেখ্য ভাষার সাথে পরিচয় বাংলাভাষায় বিদেশী শব্দগ্রহণের তাৎপর্য এই পাঠদানের মূল উদ্দেশ্য।



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IV	General	SEC-II	রচনাশক্তির নৈপুণ্য	2	এই কোর্সের উদ্দেশ্য শিক্ষার্থীদের ভাবার্থ ও ভাবসম্প্রসারণ লেখার অভ্যাস তৈরি। তার সাথে সাথে প্রকাশনার ক্ষেত্রে বৃহত্তর পরিধিতে প্রতিবেদন রচনার পদ্ধতি সম্পর্কে ধারণা পেল।
IV	General	L2 - 2	বাংলা কবিতা	6	এই কোর্সে শিক্ষার্থীরা কয়েকজন বিভিন্ন সময়ের কবির লেখার সাথে পরিচয় লাভ করল
V	General	DSE-I/II-A	উনিশ শতকের বাংলা উপন্যাস / ছোটগল্প	6	এই কোর্সে শিক্ষার্থীদের উনিশ শতকের বাংলা উপন্যাস/ছোটগল্পের ক্রমবিকাশ ও বিবর্তন সম্পর্কে ধারণা পেল।
V	General	SEC-III	প্রবন্ধ ও প্রতিবেদন রচনা	2	এই কোর্সের উদ্দেশ্য স্বরচিত প্রবন্ধ রচনার ক্ষেত্রে শিক্ষার্থীদের উৎসাহিত করা ও প্রকাশনার ক্ষেত্রে বৃহত্তর পরিধিতে প্রতিবেদন রচনার পদ্ধতি সম্পর্কে ধারণা পেল।
VI	General	DSE-I/II-B	উনিশ শতকের বাংলা নাটক / প্রবন্ধ	6	এই কোর্সের উদ্দেশ্য শিক্ষার্থীদের উনিশ শতকের বাংলা নাটক / প্রবন্ধ ক্রমবিকাশ ও বিবর্তন সম্পর্কে ধারণা পেল।
VI	General	SEC-IV	ব্যবহারিক বাংলা চর্চা ও অনুবাদ চর্চা	2	এই কোর্সে শিক্ষার্থীরা অনুবাদ সাহিত্যের সাথে পরিচয় হল এবং অনুবাদের পদ্ধতি জেনে অনুবাদে উৎসাহ পেল।



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Enlightenment through Education

Program and Course Outcome History General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	General	CC/ GE-I/II-A	History of India, From Earliest Times to 300 CE	6	Students will acquire a general concept on politics, society, economy and cultural aspects of early India.
II	General	CC/ GE-I/II-B	History of India (300-1200 CE)	6	This paper provides a general idea on the evolution of early India from the Gupta period to the early medieval India covering all aspects of politics, administration, society, economy and culture.
III	General	CC/ GE-I/II-C	History of India (1206-1707 CE)	6	The students of B.A General shall have a conceptual knowledge on the Islamic rule in India, the rise and fall of the Delhi Sultanate and that of the Mughal Empire along with the multi-dimensional interaction and synthesis between Hindu and Islamic cultures.
III	General	SEC-I	Archives and Museums	4	Students of History must acquire first and knowledge of historical documents and the method of their preparation and this paper will provide some knowledge in this field where both archives and museums are the two main pillars. The primary outcome will be developing some sort of skill among the students in this particular field.
IV	General	CC/ GE-I/II-D	History of India (1707-1950 CE)	6	This course will enable the students to get a clear idea on colonial India and its significance. This paper is of immense importance in the light of competitive examinations conducted by UPSC and PSC.



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IV	General	SEC-II	Understanding Heritage	4	This course is intended for developing skills and theoretical knowledge among the students. The paper deals with the concept of heritage and heritage preservation by means of acts, archaeology and museum - particularly in Indian perspective.
V	General	DSE-I/II-A	Some aspects of Society and Economy of Modern Europe (15-18th c)	6	Going through this curriculum the learners can have a good idea about the transition of Europe from medieval to modern times or in other words from feudalism to capitalism. The catalyst of this process of transition inter alia Renaissance, the Geographical Discoveries, the Reformation and Rise of Nationa States are some areas where the students can
V	General	GE-I	Some Perspectives of Women Rights in India	6	This Generic Paper is much value oriented and possess valuable information regarding rights of the womenfolk in India and by studying this paper properly the students can assimilate a handful idea about those women rights.
V	General	SEC-III	An Introduction to Archaeology	4	This skill enhancement course, though quite difficult, will provide some theoretical and technical knowledge on archaeological field work by highlighting the methods of exploration, excavation and archaeological preservation



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VI	General	DSE-I/II-B	Some aspects of European History - (1789-1939 CE)	6	The students shall have the idea of important historical events of Modern Europe, such as, the French revolution and its aftermath, the triumph of nationalism and progressive ideas, the unification of Italy and Germany, the coming of the two world wars etc. Germany etc. This period of history is also of enormous importance.
VI	General	GE-II	Gender and Education in India	6	The outcome is a thorough knowledge about how the women in India were provided with education in comparison with their male counterparts. More importance is given for the colonial and post-independence period.
VI	General	SEC-IV	Art Appreciation- An Understanding to Indian Art	4	The primary outcome of this course is to enhance the skill of the students by providing them with an idea of Indian built heritage - the evolution of Art and Architecture from the Mesolithic days of Bhimbetka to the Churches of Colonial era.



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Program and Course Outcome Philosophy General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
1	General	CC-IA &GE-1	Indian Philosophy	6	General concept of Indian tradition and Philosophy
2	General	CC-IB &GE-2	Western Philosophy	6	General concept of Western tradition and Philosophy
3	General	CC-IC &GE-3	Logic	6	Concept of reasoning and of reaching conclusion with the help of WEstern Logical Method
3	General	SEC-1	Philosophy in Practice	2	Aggrandisement of Skill in Philosophy
4	General	CC-ID &GE-4	Contemporary Indian Philosophy	6	Knowledge of phylosophical views of different contempory philosophers on the basis of Traditional philosophy
4	General	SEC-2	Philosophy of Human Rights	2	concept of Human Rights with philosophical illustration
5	General	DSE-1A	Philosophy of Religion	6	Knowledge and concept of Religion in the light of Philosophy and thereby eradication of existing superstitions in the name of Religion
5	General	GE-1	Indian Philosophy	6	General concept of Indian tradition and Philosophy
5	General	SEC-3	Philosophical Analysis	2	profound knowledge of analysis on different issues of traditional Western Philosophy
6	General	DSE-1B	Tarkasamgraha (Saptapadartha)	6	Metaphical concept in Indian tradition
6	General	GE-2	Western Philosophy	6	General concept of Western tradition and Philosophy
6	General	SEC-4	Ethics in practice	2	Knowledge of the utility of Ethics in human life



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Program and Course Outcome Geography General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
1	BA General	CC-1A	Geotectonics & Geomorphology	6	This course helps the student to understand the different physical features of earth surface as well as beneath the surface and role of ongoing processes to create such features. Such understanding will help to know our environment in better way for sustainable management.
2	BA General	CC-1B	Climatology, Soil and Bio-geography	6	This paper will help to under that climatic characteristic of earth and role of climate on the distribution of different environmental characteristics. The different types of soil and its profile, soil classification and factors effecting soil formation and brief understanding of soil forming processes.
3	BA General	CC 1C	Human Geography	6	This field of study will promote students to understand distribution and pattern of different attribute of society with detail evolution of human civilization and their relationship with environment.
3	BA General	SEC 1	Computer Basics and Computer Applications	2	This course helps to enhance skill in basic computing analysis using excel and creating different charts and diagrams.
4	BA General	CC 1D	Environmental Geography	6	This course helps to improve the knowledge of environmental sustainability with diverse knowledge on climate change, global warming, health issues, SDGs etc.
4	BA General	SEC 2	Regional Planning and Development	2	This course could improve the ethical issue and human values with the knowledge of regional disparity and prospect of development of specific region



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5	BA General	DSE 1A	Economic Geography	6	This course helps to enrich student with the understanding about the environmental sustainability by detail knowledge on renewable and non-renewable resources, their availability, and distribution; Student could understand the potential locations for renewable energy. The course also helps to understand the best agricultural and mining practices for environmental sustainability.
5	BA General	GE 1	Physical Geography	6	This course helps the student to understand the different physical features of earth surface as well as beneath the surface and role of ongoing processes to create such features. Briefly discuss the Geomorphic landforms and its forming factors and distribution across different parts of the worlds. Such understanding will help to know our environment in better way for sustainable management.
5	BA General	SEC 3	Collection Mapping and Interpretation of Climatic data	2	This course helps the student to understand the different data related to climate, sources of climatic data and preparation of different climatic graphs and interpretation of Weather Maps.
6	BA General	DSE 1B	Disaster Management	6	This course directly helps student with detail knowledge on environmental issues like environmental hazard and disaster management, assessment of risk and vulnerability of any particular hazard.
6	BA General	SEC 4	Rocks and Minerals and their Megascopic Identification	2	This course helps student to understand difference between rocks and minerals, process of collection, their identifiable characteristics and megascopic identification.



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Program and Course Outcome Sanskrit General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
SEM1	BA General	CC1A/2A/GE1	Classical Sanskrit Literature (Poetry)	6	This course aims to get students acquainted with Classical Sanskrit Poetry. It intends to give an understanding of literature, through which students will be able to appreciate the development of Sanskrit Literature. The course also seeks to help students to negotiate texts independently.
SEM2	BA General	CC1B/2B/GE2	Classical Sanskrit Literature (Prose)	6	This course aims to acquaint students with Classical Sanskrit Prose literature. Origin and development of prose, Important prose romances and fables Sanskrit are also included here for students to get acquainted with the beginnings of Sanskrit Prose literature. The course also seeks to help students negotiate texts independently.
SEM3	BA General	CC1C/2C/GE3	Classical Sanskrit Literature (Drāmā)	6	This course aims to acquaint students with most famous dramas of Sanskrit literature which represent three stages in the growth of Sanskrit drama. The dramatists like Bhāsa, Aśvaghōṣa, Kālidāsa, Śūdraka, Viśākhadatta, Śrīharṣa, Bhavabhūti, Bhaṭṭanārāyaṇa etc. will be known to the students and their creations will be highlighted. They will be able to know the philosophical outlook of Kalidasa through the drama Abhijñānaśakuntalam.



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	BA General	SEC1	Basic Elements of Ayurveda Or, Yogasutra of Patanjali	4	Āyurveda is a traditional Indian system of healthcare that has been traced back as early as 5,000 BCE. Through the classroom lectures and discussions, this course will introduce students to the theory of Āyurveda. The major objective is to understand the basic principles and concepts of preventative medicine and health maintenance, diet and nutrition, usage of commonly used spices and herbs and outline of Āyurvedic therapeutic procedures in Āyurveda.
SEM4	BA General	CC1D/2D/GE4	Sanskrit Grammar	6	This is an elementary course in Sanskrit language designed for students who wish to learn Sanskrit from the very beginning. Essential Sanskrit grammar will be introduced (without reference to Panini's sutras) through the multiple example method with emphasis on students constructing themselves sentences.
	BA General	SEC2	Indian Theatre	4	Sanskrit rhetoric has a long tradition of critical study of literature for thousands of years. Sahityadarpan of Biswanath is one of the great treatises where discussion about the characteristics of Poetry, Epics, Drama etc. This course aims to acquaint students with the view of ancient Sanskrit scholars regarding poetic issues.
SEM5	BA General	DSE1A/2A	Epigraphy	6	This course aims to acquaint the students with the epigraphical journey in Sanskrit, the only source which directly reflects the society, politics, geography and economy of the time. The course also seeks to help students to know the different styles of Sanskrit writing.
	BA General	GE1	Indian Social Institution and Polity	6	This course aims to acquaint students with the political literature of ancient India. Texts like Manusamhita and Arthashastra of Kautilya make the students aware of the social and political responsibilities which is still relevant to the present time.



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	BA General	SEC3	Sanskrit Composition	4	This course aims to get the students acquainted with the fable literature in Sanskrit. Panchatantra of Vishnusarma and Hitopadesha of Narayana are two gems of Sanskrit literature which teach morality and diplomacy to the students. Apart from this writing of essays in Sanskrit builds capacity of composition.
SEM6	BA General	DSE1B/2B	Literary Criticism	6	Sanskrit rhetoric has a long tradition of critical study of literature for thousands of years. Sahityadarpan of Biswanath is one of the great treatises where discussion about the characteristics of Poetry, Epics, Drama etc. This course aims to acquaint students with the view of ancient Sanskrit scholars regarding poetic issues.
	BA General	GE2	Sanskrit Metre and Composition	6	The study of sāhityaśāstra (Sanskrit Poetics) embraces all poetic arts and includes concepts like alaṅkāra, rasa, rīti, vakrokti, dhvani, aucitya etc. The entire domain of Sanskrit poetics has flourished with the topics such as definition of poetry and divisions, functions of word and meaning, theory of rasa and alaṅkāra (figures of speech) and chandas (metre), etc.
	BA General	SEC4	Vedic Literature	4	This course on Vedic literature aims to introduce various types of vedic texts. Students will also be able to read various suktas of the Rk Veda, one Upaniṣad, namely, Ishopanīṣad, where primary Vedānta-view is propounded.



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Program and Course Outcome Political Science General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	BA GENERAL	CC1	WESTERN POLITICAL THOUGHT	6	This course helps the students to gather knowledge about Western political thought and thinkers like Plato, Aristotle, Hegel, Marx and others. This helps the students to acquaint with the basic concepts of Western political thought like utilitarianism, Marxism, liberalism which facilitates them to acquire knowledge about diverse concepts. Students can acquire knowledge about political thinkers from the medieaval period like St. Augustine and Machiavelli to Marxian political thinkers. Ideas about the theories of Hobbes, Locke and Roussaeu help the students to acquire knowledge about them.
II	BA GENERAL	CC2	POLITICAL THEORY	6	Students will acquire a general concept of theory building that would be beneficial in preparing the foundation.
III	BA GENERAL	CC 1C	INDIAN POLITICAL THOUGHT	6	This paper will enable the students to get an idea of Indian political thinkers from ancient times to the modern period.
III	BA GENERAL	SEC 1	ELECTORAL PRACTICES AND PROCEDURES	2	This course provides an insight into the electoral practices and procedures of India. The course helps the students to understand the structure and functions of the Election Commission in India, the role of the Election Commissioner and electoral reforms in India.



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IV	BA GENERAL	CC 1D	INDIAN GOVERNMENT AND POLITICS	6	This paper helps the students in gaining knowledge about the largest democracy of the world. Students can gain idea about the philosophy of the Indian Constitution, get the knowledge about their rights and duties and understand the basic features of the Indian constitutional system. This would help them to understand their country, the laws and regulations and the basic structure of the Indian political system.
IV	BA GENERAL	SEC 2	ENVIRONMENTAL AWARENESS	2	The course helps the students to understand the significance of environmentalism and helps them to understand the problems and challenges faced by the countries to address environmental issues. Students are made aware of major environmental movements in India like the Chipko and Narmada Banchao. The students develop an understanding on sustainable human development.
V	BA GENERAL	DSE 1A	SELECT COMPARATIVE POLITICAL THEORIES	6	This paper familiarise the students with the ideas of Kautilya, Gandhi, Tilak, Ambedkar, Nehru, Jayprakash Narayan also our western thinkers like Mill, Rousseau.
V	BA GENERAL	SEC 3	DEMOCRATIC AWARENESS THROUGH LEGAL LITERACY	2	This paper makes the students aware of the democratic rights and duties. Students can learn about laws related to dowry, sexual harrassments, anti-terrotist laws.
VI	BA GENERAL	DSE 1B	UNDERSTANDING GLOBALIZATION	6	This paper helps the students to acquire knowledge about meanings and debates of globalization and evaluate the impact of globalization on Indian economy and new international economic order.



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VI	BA GENERAL	SEC 4	HUMAN RIGHTS EDUCATION	2	The course makes the students aware on the basic human rights- theory building and also practical application. Students can understand the statutes and legal provisions related to human rights that make them aware and conscious.
VI	BA GENERAL	GE 2	INDIAN GOVERNMENT AND POLITICS	6	This paper helps the students in gaining knowledge about the largest democracy of the world. Students can gain idea about the philosophy of the Indian Constitution, get the knowledge about their rights and duties and understand the basic features of the Indian constitutional system. This would help them to understand their country, the laws and regulations and the basic structure of the Indian political system.



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Program and Course Outcome English General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	General	CC/ GE-I/II-A	Poetry and Short Story	6	Students will acquire a general concept on poetry and short story.
II	General	CC/ GE-I/II-B	Essay, Drama, Novel	6	This paper provides a general idea on essay, drama and novel and familiarises the students with some examples of the same.
III	General	CC-I-C/ GE-I/II-C	Contemporary India: Women and Empowerment	6	This course informs the students about the new India and the role of women in it.
I	General	AECC	L1-1 (Language, Variety and Stylistics)	4	This course informs the students about language, variety and stylistics
IV	General	CC/ GE-I/II-D	Academic Writing and Composition	6	The students will learn about academic writing and composition in this course.
III	General	AECC	L1-2 (Language, Imagination and Creativity)	4	The students will learn about rhetoric and how to use them to make language impactful and dramatic
V	General	DSE-I/II-A	British Literature	6	This course will inform the students about the works of English authors such as RL Stevenson, Shakespeare and others
V	General	GE-I	Gender and Human Rights	6	This course discusses the issues of gender and human rights.
V	General	SEC-III	Technical Writing	4	The students learn about technical writing.



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VI	General	DSE-I/II-B	Indian Literature in Translation	6	This course discusses the various issues related to translation of Indian literatures.
VI	General	GE-II	Environment and Literature	6	The outcome is a thorough knowledge about how the environment and literature are related.
VI	General	SEC-IV	Soft skills	4	The primary outcome of this course is to enhance the skill of the students by providing them with an idea of soft skills.



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Program and Course Outcome Education General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	General	CC-1A/GE-1	Principles of Education	6	Through this course, students will be informed about the aims and components of education, principles and types of curriculum, child-centred education, play-based learning and freedom and structure in education.
II	General	CC-1B/GE-2	Educational Psychology	6	Through this course, students gain an understanding of the relationship between education and psychology, growth and development, personality development, personality traits, individual differences and theories of intelligence, the pursuit of intelligence and elements of learning.
III	General	CC-1C/GE-3	Educational Sociology	6	Through this course, students will learn about the relationship between education and society, social change, social stratification, socialization, social control, social organizations.
III	General	SEC-1	Measurement and Evaluation in Education	2	Through this course, students will be introduced to measurement and evaluation in the field of education. Gain an understanding of various standard deviations, precision, reliability and numerology.
IV	General	CC-1D/GE-4	History of Education in India	6	Through this course, students will learn about various committees and commissions before and after independence.
IV	General	SEC-2	Value Education	2	Through this course students will be aware about ethics, social values, peace education etc.
V	General	DSE-1A	Great Educators	6	Through this course students will learn about the contribution of various great educationists in the field of education.
V	General	GE-1	Current Issues in Indian Education	6	Through this course, students will gain an understanding of different levels of education, educational opportunity, education for backward classes, non-traditional education, adult education, universal education campaign and various institutions of education during the period of independence.
V	General	SEC-3	Educational Guidance and Counselling	2	Through this course students will know about guidance and counselling, need of guidance, types, types of counselling, difference between guidance and counselling.
VI	General	DSE-1B	Educational Technology	6	Through this course, students will learn about educational technology, its components, systems approach, communication systems, multimedia, audio-visual aids and use of computers in education.



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VI	General	GE-2	Psychology of Mental health and Hygiene	6	Through this course, students will gain an understanding of mental health, mental hygiene, adaptation and maladaptive behavior.
VI	General	SEC-4	Distance Education	2	Through this course, students will learn about the development of distance education, self learning material in distance education, self support system, vocational and technical programme, quality improvement of distance education and the role of Distance Education Council.



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Program and Course Outcome

Economics General

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	BA General	CC1A/ GE-1	Microeconomics	6	The outcome of this paper is to understand the economic behaviour of individuals, firms and markets. It is mainly help the students to understand various aspects of consumer behaviour and Economic Welfare, Firm Behaviour and theories of imperfect markets and equilibrium in different conditions.
II	BA General	CC1B/ GE-2	Macroeconomics	6	Macroeconomics provides an idea of elementary theoretical foundation of key issues and polices. It attempts to discuss the functional relationship between aggregates.
III	BA General	CC1C/ GE-3	Development Economics	6	The paper provides fundamental of basic growth and development issues, approaches and models. It helps to understand the overall static and dynamic perspectives of the economy in a purely theoretical perspective.
III	BA General	SEC-I	Indian Financial System	2	Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
IV	BA General	CC1D/ GE 4	Features of Indian Economy	6	Contemporary Issues in Indian Economy shall provide basic knowledge on national income accountings, various issues involved in agricultural, industrial, financial, trade sectors, public institutions and finally human resources development. This paper is of immense importance in the light of competitive examinations conducted by UPSC and PSC.
IV	BA General	SEC-II	Entrepreneurship Development	2	Learners will identify the type of entrepreneur and the steps involved in an entrepreneurial venture. It helps to explore marketing methods & new trends in entrepreneurship.
V	BA General	DSE-1A	Basic Statistics/Indian Economic History	6	This Paper will provide the students with a thorough knowledge on basic statistical techniques. Statistical Techniques are discussed with examples from economics.



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V	BA General	GE-1	Basic Economics	6	The outcome of this paper is to understand the economic behaviour of individuals, firms and markets. It is mainly help the students to understand various aspects of consumer behaviour and Economic Welfare, Firm Behaviour and theories of imperfect markets and equilibrium in different conditions.
V	BA General	SEC-3	Money and Banking/ Insurance Market and Products	2	Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
VI	BA General	DSE-1B	Public Economics	6	Considering the increasing role of Government in economy, this paper aims to generate theoretical and empirical understanding of students about different aspect of Governmental activities and their rationality. It covers fundamental concepts of public economics, public expenditure, public revenue, and public debt with special reference of Indian economy.
VI	BA General	GE-2	Indian Economic Development	6	The paper provides fundamental of basic growth and development issues, approaches and models. It helps to understand the overall static and dynamic perspectives of the economy in a purely theoretical perspective.
VI	BA General	SEC-4	Indian Stock Market Trading	2	Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.



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Program and Course Outcome Mathematics

Semester	Program	Course Code	Course Title	Credit	Course Outcomes
I	B.Sc. Pure General	GE1/CC1A	Differential Calculus	6	This course seems like a comprehensive calculus course covering fundamental concepts such as limits, continuity, differentiability, analytical geometry, and various calculus theorems and series. Students should gain a solid understanding of calculus and its applications through these topics.
II	B.Sc. Pure General	GE2/CC1B	Differential Equations	6	Below are the main outcomes covered in this course: <ul style="list-style-type: none"> • Understanding and solving differential equations, exploring general, particular, explicit, implicit, and singular solutions. • Solving exact differential equations and using integrating factors. • Solving separable and Bernoulli differential equations.
III	B.Sc. Pure General	GE3/CC1C	Real Analysis	6	This course will have a strong understanding of fundamental concepts in real analysis, including properties of real numbers, sequences, and infinite series. Here are the expected course outcomes: <ul style="list-style-type: none"> • Understand the algebraic and order properties of real numbers. • Distinguish between countable and uncountable sets; comprehend the uncountability of \mathbb{R}. Define sequences and understand the concepts of bounded and convergent sequences, etc.
IV	B.Sc. Pure General	GE4/CC1D	Algebra	6	This course appears to cover a comprehensive range of topics in group theory, from basic definitions to advanced theorems. Here are the expected course outcomes: <ul style="list-style-type: none"> • Introduction to abstract algebraic



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					<p>structures with examples like permutation groups and quaternion groups (represented through matrices).</p> <ul style="list-style-type: none"> • Introduction to abstract algebraic structures with examples like permutation groups and quaternion groups (represented through matrices). • Applications of Lagrange's theorem, etc.
V	B.Sc. Pure General	DSE1A	Linear Algebra	6	<p>This course will have a strong understanding of fundamental concepts in Vector spaces and Linear transformation. Some outcomes are given below:</p> <ul style="list-style-type: none"> • Understanding vector spaces and subspaces in \mathbb{R}_n. • Determining the dimension of subspaces in \mathbb{R}_n. • Calculating the rank of matrices. • Understanding eigenvalues and eigenvectors. <p>Solving characteristic equations, etc.</p>
V	B.Sc. Pure General	SEC3	Probability & Statistics	2	<p>This course cover fundamental concepts in probability theory, random variables, joint distributions, expectations, conditional probabilities, statistical inference, and hypothesis testing. The course seems to progress from basic probability concepts to more advanced topics such as Markov Chains and hypothesis testing.</p>
VI	B.Sc. Pure General	DSE1B	Linear Programming	6	<p>Linear programming (LP) is a mathematical optimization technique used for finding the best outcome in a mathematical model with linear relationships. Courses on linear programming typically cover a range of topics, and the outcomes can vary based on the level and focus of the course. However, here are some common course outcomes associated with linear programming:</p> <ul style="list-style-type: none"> • Define and understand the basic



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					<p>concepts of linear programming.</p> <ul style="list-style-type: none">• Apply the simplex method to solve optimization problems with multiple variables. <p>Understand the duality concept and its applications in linear programming, etc.</p>
VI	B.Sc. Pure General	SEC4	Transportation and Game Theory	2	<p>On completion of this course, the student should understand the concept of transportation problems in the context of logistics and supply chain management, formulate transportation problems and apply optimization techniques to find the optimal solution and gain a solid understanding of the fundamental principles of game theory.</p>



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Program and Course Outcome Chemistry

Semester	Program	Course Code	Course Title	Credit	Course Outcome
1	B.Sc. Pure (Gen)	CC-1A	Atomic Structure, Chemical Periodicity, Acids And Bases, Redox Reactions, General Organic Chemistry & Aliphatic Hydrocarbons	6 (Th:4; Pr:2)	i) preliminary idea of atoms, molecules and their abilities to act as acids & bases. ii) How concept of Oxidation number, ionic balance method involves to explain redox behavior of elements during chemical changes. iii) Fundamental and basic organic chemistry helps to explain Name Reactions, detection of functional groups, and their stereo chemical properties.
2	B.Sc. Pure (Gen)	CC-1B	States of Matter & Chemical Kinetics, Chemical Bonding & Molecular Structure, P-Block Elements	6 (Th:4; Pr:2)	i) Physical Characteristics of gases, liquids and solids, Origin of liquid viscosity and gas viscosity. ii) Detection of unknown acid and basic radicals present in the inorganic salt. iii) different types solid systems and their properties, iv) Nematic and Sematic liquid crystals and their applications. v) Concept of MO and LCAO approach towards the combination of atoms and controlling their bond orders, bond strengths.



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3	B.Sc. Pure (Gen)	CC-1C	Chemical energetic, equilibria, organic chemistry	6 (Th:4; Pr:2)	i) Basic concept of thermodynamics helps to explain homogeneous and heterogeneous chemical equilibrium. ii) Concept of strong, moderate and weak electrolytes. iii) different kinds of buffer solutions and their specific uses. iv) Organometallic chemistry and their uses.
3	B.Sc. Pure (Gen)	SEC-1	Analytical clinical biochemistry	2	Concept of clinical biochemistry helps to detect different kinds of disease by blood and urine analysis.
4	B.Sc. Pure (Gen)	CC-1D	Solutions, Phase Equilibria, Conductance, Electrochemistry & Analytical and Environmental Chemistry	6 (Th:4; Pr:2)	i) application of thermodynamics in ideal and non-idea solutions, phase diagrams, distillation of solvents and azeotrope formation. ii) Replacement of conventional acid - base titration by conductometric titrations without use of indicator. iii) Distinction between Electrolytic cell and Galvanic cell and their applications towards potentiometric titrations. iv) Use of analytical chemistry towards the chromatographic purification process. v) How to maintain water quality standards by measuring BOD, COD, TDS, hardness parameters. vi) Application of reverse osmosis in the commercial market in water purifiers (EUREKA FORBES, KENT etc.



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					vii) Use of electro dialysis in the case of kidney failure patients by purifying blood.
4	B.Sc. Pure (Gen)	SEC-2	Pharmaceuticals Chemistry	2	Findings of specific nature of organic compounds controlling drug industry and their potential applications towards medicines for different diseases.
5	B.Sc. Pure (Gen)	DSE-1A	Transition Metal & Coordination Chemistry, Analytical and Industrial Chemistry	6 (Th:4; Pr:2)	Concept of 3d series transitions elements and lanthanides and their complexing abilities to explain fascinating inorganic chemistry and their potential applications.
6	B.Sc. Pure (Gen)	Sec-4	Polymer Chemistry	2	One can get the idea of classification of polymers, preparation , structure, and physical, chemistry properties and along with its applications in various industrial fields.
6	B.Sc. Pure (Gen)	DSE-1B	Functional Group Organic Chemistry and Industrial Chemistry	6 (Th:4; Pr:2)	i) Preparation and reactions of functional group approach towards famous Name reactions and their uses in protein chemistry and carbohydrate chemistry. ii) Industrial use of polymers, paints, varnishes, drugs, oil, fat, soap, detergent, pesticides and food additives.



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Program Name : B.Sc General (Pure)

Program and Course Outcome

Physics

Semester	Program	Course Code	Course Title	Credit	Course Outcome
I	BSc Pure General	CC-1A	Mechanics	6	The Mechanics course offers a foundational understanding of classical mechanics, focusing on principles of motion, forces, and energy, with applications to real-world problems
II	BSc Pure General	CC-1B	Electricity and Magnetism	6	The primary focus of this paper is to integrate theoretical principles with hands-on experiments, fostering a deep understanding of electromagnetism and advanced problem-solving skills in the domain of electricity and magnetism
III	BSc Pure General	CC-1C	Thermal Physics and Statistical Mechanics	6	It integrates theoretical principles with experimental applications, equipping students to analyze and model complex systems, and understand the statistical behavior of particles in diverse physical scenarios
III	BSc Pure General	SEC-1	Renewable Energy	2	This skill enhancement course provides to physics general students a contemporary knowledge of renewable energy sources and its application for a better and carbon free life.
IV	BSc Pure General	CC-1D	Waves and Optics	6	This course combines theoretical understanding with practical experiments, developing expertise in wave phenomena and optics for advanced applications in physics



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IV	BSc Pure General	SEC-2	Weather Forecasting	2	This paper provides contemporary information about the modern weather forecasting techniques and various weather forecasting model and their accuracy
V	BSc Pure General	SEC-3	Computational Physics	2	This course helps physics general students to improve their programming skill to solve complicated physics problem with the help of computer
V	BSc Pure General	DSE-1A	Elements of Modern Physics	6	Elements of Modern Physics course integrates theoretical principles with experimental applications, fostering a comprehensive understanding of key concepts in contemporary physics, including quantum mechanics, radioactivity and laser
VI	BSc Pure General	SEC-4	Electrical Circuits and Network Skills	2	In this paper students will develop advanced proficiency in analyzing, designing, and optimizing electrical circuits and networks for diverse engineering applications
VI	BSc Pure General	DSE-1B	Quantum Mechanics	6	This course integrates theoretical principles with experimental techniques, equipping students with advanced knowledge to understand and apply quantum phenomena in diverse scientific contexts.



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Program and Course Outcome

Botany

Sl.No.	Name of the Programme	Semester	Course Code	Course Title	Number of Credit	Course Outcome
1	B.Sc Bio-General	1st	CC-1A	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	6 (Th:4; Pr:2)	This topic helps student about the overall plant diversity of this planet. Starting from unicellular and celluar or acellular virus, bacteria, unicellular to multicellular algae, heterotrophic fungi, thalloid bryophyte & mosses, primitive vascular land plant Pteridophyte & ferns and seeded gymnosperms.
2	B.Sc Bio-General	2nd	CC-1B	Plant Ecology and Taxonomy	6 (Th:4; Pr:2)	This course comprises two topics. Plant Ecology enrich students about the relevance of mother nature and ecosystem of environment, its importance and coservation of nature and natural resourses. On the other hand Plant Taxoomy deals with the classification of angiospermic plants and its nomenclature. It also help students to identify and characterize plant species.
3	B.Sc Bio-General	3rd	CC1C	Plant Anatomy and Embryology	6 (Th:4; Pr:2)	This course comprises two topics. Plant Anatomy illustrates students about the basic knowledge of internal



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						organization of plant body, their composition, constituents and functions. Studying Embryology students can understand the process of embryo formation, its growth and its types. It helps students to understand how a small seed can grow into a tree.
4	B.Sc Bio-General	3rd	SEC-1	Biofertilizers	2	This topic deals with the benefit of the using biofertilizer over the chemical fertilizer. It helps student to know about the basic process of manufacturing the biofertilizer, their nature and the micro-organisms which can best suited to use as biofertilizer.
5	B.Sc Bio-General	4th	CC-1D	Plant Physiology and Metabolism	6 (Th:4; Pr:2)	This is one of the most important topic of this programme. Here students can easily understand the biochemical and physiological processes continuously happening inside the body of plants, their mechanism, their reactions, factors affecting the pace of those reactions, their limitations, site of the reactions etc. which is mostly required to forming a living being alive.



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6	B.Sc Bio-General	4th	SEC-2	Floriculture	6	This topic helps the students to types and parts of plants which is beneficial in terms of economy. The importance of flower and its used in various ways. The way of flower cultivation, the gardens and nurseries where flowers can be grown, its proper packaging and transporting.
7	B.Sc Bio-General	5th	DSE-1A	Economic Botany and Biotechnology	6 (Th:4; Pr:2)	This course comprises two topics. Economic botany deals with the study of economically beneficial plants and plant parts, their uses, active components etc. Biotechnology helps students to know about the modification of economically valuable plants to grow more yield or resistant to pest and diseases.
8	B.Sc Bio-General	5th	SEC-3	Nursery and Gardening	6	This topic illustrate about the importance and scopes of gardening and nursery, their types, nature, types of flower grown, process of gardening and its maintenance.
9	B.Sc Bio-General	6th	DSE-1B	Cell Biology, Genetics and Molecular Biology	6 (Th:4; Pr:2)	This topic illustrate about the strutures, types and compositions in the plant cell. It also help to understand the chemical composition of the cell as well as the plant body. Student can know about



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						the gene concept of the nucleus of the cell, their expression and genetic diseases.
10	B.Sc Bio-General	6th	SEC-4	Mushroom Culture Technology	6	This topic help to know about the nutritional and medicinal value of edible ad poisonas mushrooms, their characters and nature, their cultivation procedures, their nutritions, storage and marketing.



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Program and Course Outcome

Zoology

PROGRAM	SEMESTER	COURSE NAME	COURSE DETAIL	CREDIT	COURSE OUTCOME
B.Sc. Bio (General) Subject: Zoology	I	CC-I	Animal Diversity	4	<ul style="list-style-type: none">• Students will understand and learn about the taxonomy and the biology of non-chordates and chordates with their structural organization, adaptive features, and evolutionary relationships.• Able to learn about the diversity of chordates and non-chordates groups and also can identify the animals in this regard.
	II	CC-II	Comparative Anatomy & Developmental Biology of Vertebrates	4	<ul style="list-style-type: none">• Students will learn about the anatomy of different organ systems in vertebrates and the process of how they evolved in the course of evolution.• Gain a comprehensive knowledge of early and late embryonic development of life and the role of fundamental processes in controlling the development.
	III	CC-III	Physiology and Biochemistry	4	<ul style="list-style-type: none">• Students will understand the details of the physiology of digestion, respiration, excretion, blood circulatory system, reproduction and various endocrine glands with their functions in the human body.• Students will be able to explain biomolecules like carbohydrates, lipids, and proteins addressing their synthesis, structure, functions,



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					and metabolism in the human body.
	III	Skill Enhancement Course-I	Apiculture	2	<ul style="list-style-type: none"> • Learners will have an understanding of honey bees, biology and social organization of Bee colonies. • Learning the process of Beekeeping, honey extraction methods, and management of bee enemies and diseases for farming. • Able to learn the economic importance of Apiculture and the Modern Methods of implementing cross-pollination in horticultural gardens.
	IV	CC-IV	Genetics and Evolutionary Biology	4	<ul style="list-style-type: none"> • Understanding Mendelian Genetics and its Extension, Chromosomal Mapping and the role of genetic mechanisms in evolution. • Acquire a comprehensive knowledge of the different processes of evolution and the mode of speciation.
	V	Skill Enhancement Course- III	Sericulture	2	<ul style="list-style-type: none"> • Students will be able to gain comprehensive knowledge on Sericulture about the variety of silkworms, cultivation of mulberry plants, maintenance of the farm, silkworm rearing and silk reeling technology. • Identifying various diseases and pests of the mulberry plant with the control measures necessary for self-employment in mulberry and silk production.



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	V	Discipline Specific Elective-I	Applied Zoology	4	<ul style="list-style-type: none">• Students gain several knowledge on hosts, parasites, and different types of host-parasite interactions.• Understand the Epidemiology of several diseases, life history, and pathogenicity of various protozoa, and helminths.• Acquire a comprehensive idea about the biology of various Insects that have economic and medical importance.
	V	Discipline Specific Elective-2	Immunology	4	<ul style="list-style-type: none">• Students will have an understanding of basic concepts in immunology comprising the components of immune system, innate and adaptive immunity, lymphoid organs, antigens and antibodies in elaboration.• Learning how the immune system defends against foreign antigens by processing and presenting antigens to immune cells for destruction and also in a couple of ways.• Gain knowledge of how the immune system plays a key role in various types of hypersensitivities, autoimmunity and immunodeficiency diseases.• Acquire a preliminary concept of how the different vaccines are developed.



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Program: B.Com General

Program and Course Outcome

Commerce

Semester	Programme	Course Code	Course Title	Credit	Course Outcome
I	General	CC-1	Financial Accounting-I	6	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
I	General	CC-2	Business Management	6	The objective of the course is to provide the student with an understanding of basic management concepts, principles and practices.
II	General	GE-1	Principles of Economics	6	The objective of this course is to acquaint the students with the basic principles of economics.
II	General	CC-3	Business Law	6	The objective of the course is to impart basic knowledge of the important business legislations along with relevant case laws.
II	General	CC-4	Cost Accounting-I	6	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.
III	General	CC-5	Cost Accounting-II	6	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.
III	General	CC-6	Financial Accounting-II	6	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
III	General	SEC-1	E-Commerce	2	The objective of the paper is to help students learn the concepts, vocabulary and procedures associated with E-Commerce and the Internet.



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IV	General	CC-7	Financial Accounting-III	6	To enable the students to acquire the basic knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.
IV	General	CC-8	Corporate Laws	6	The objective of the course is to impart basic knowledge of the important corporate legislations along with relevant case laws.
IV	General	SEC-2	Computer Applications in Business (Practical)	2	To provide computer skills and knowledge for commerce students and to enhance the student understands of usefulness of information technology tools for business operations.
IV	General	SEC-3	Entrepreneurship	2	The purpose of the paper is to orient the learner toward entrepreneurship as a career option, creative thinking and behavior.
V	General	CC-9	Taxation-I	6	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961.
V	General	CC-10	Auditing	6	To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards.
V	General	DSE-1	Management Accounting	6	To impart the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.
V	General	DSE-2	Indian Financial System	6	To provide the student a basic knowledge of financial markets and institutions and to familiarise them with major financial services in India.
VI	General	SEC-3	Personal Selling and Salesmanship	2	The purpose of this course is to familiarize the students with the fundamentals of personal selling and the selling process. They will be able to understand selling as a career and what it takes to be a successful salesman.



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VI	General	GE-2	Business Mathematics and Statistics	6	The objective of this course is to familiarize students with the applications of mathematics and statistical techniques in business decision-making.
VI	General	DSE-3	Taxation-II	6	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and GST.
VI	General	DSE-4	Fundamentals of Financial Management	6	To familiarize the students with the principles and practices of financial management.




Dr. Arghya Bandyopadhyay

Principal

Principal
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