

BUDGE BUDGE COLLEGE
PROGRAM AND COURSE OUTCOMES

BUDGE BUDGE COLLEGE

PROGRAM OUTCOMES

Program Outcome	Operational Conceptual Framework
PO1: Critical Thinking	It involves analytical exploration of various assumptions and concepts, testing their validity to arrive at conclusions and discover wider newer perspectives.
PO2: Effective Communication	Emphasizing on healthy interface with the students through all modes e.g. speech, written and more importantly listening to and acknowledging another's perspective through use of not just books but also auto-visual modes and inter-personal communication.
PO3: Social Interaction	Stressing on development of social capital through emphasis on cooperation, coordination, tolerance, respect for other's opinion through several team building activities within and outside the curriculum.
PO4: Effective Citizenship	Focus on enabling students to be diligent citizens with a sense of responsibility towards the society, equity and environment, wherein they themselves take active role in building a community.
PO5: Ethics	Inculcating in students the need to recognize the importance of moral living, integrity and to be aware of one's conscience and learn to take responsibility for one's decision.
PO6: Environment and Sustainability	It involves recognizing the importance of physical as well as socio-cultural environment. It stresses on recognizing the significance of sustainability in all forms of livelihood and man-environment interactions.
PO7: Self-directed and Life-long Learning	Involves applying knowledge in real life situation and creating a legacy of teaching learning and generating a discourse of education in which mentor and mentee both contribute to the knowledge system.

DEPARTMENT OF BENGALI

Program Outcome and Attainment: Honours & General – SUMMARY

This programme will make the students eligible for becoming an academicians of Bengali literature and various professions. They can also choose their career in the field of Script writing, Publishing, Reciting, Acting etc. Specific outcomes of this programme are identified by what students learn and apply. The Course imparts a deep and profound understanding about the journey of Bengali Language and Literature through the stages of evolution and transformation. The programme also sheds light on the different perspectives and the valuable contribution of Bengali Literature to society, the influences Bengali literary works have drawn from historical experiences and their evolution into an Indian and International language in its modern and more functional form. The prospects of the undergraduate program in Bengali Honours and General, are as follows –

- Higher studies in different reputed Universities.
- Studies and opportunities for employment in the field of Advertising, Media, Journalism, Print Media and Publishing Houses etc.
- Eligibility as teaching faculty in schools at the Primary, Secondary and Higher Secondary levels through School Service Commission Examinations and other competitive exams.
- Scope of social, community and rural engagement through involvement with government institutions and NGOs. Course Outcomes of Bengali Honours and general Course Through this curriculum students learn to translate English to Bengali and from Bengali to English which can help them in future to upgrade themselves for becoming a translator, if they undergo formal training in this field. Moreover, they can acquire skills in proof-reading, formal letter-writing, reporting etc. that help them choose their career.

Department of Bengali: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
BNG-A- CC 1	History of Bengali Literature till 1800 AD	1	To provide a comprehensive knowledge about origin, evolution and development of Bengali Literature and Culture spanning pre-19 th century.	Students learn about various stream of the history of Bengali literature from the very beginning up to 1800 A.D.
BNG-A- CC 2	Descriptive Linguistics and Bengali Language		To explain different styles and techniques of Bengali language and grammar – linguistics and phonology, Functional Grammar, Bengali dialects & their classification and chronological changes, evolution and morphological study of Bengali language.	Students gain the knowledge about the basic concept of Bengali language and linguistics.
BNG-AECC-1-1	MIL(Bengali)		To introduce all the students of all different streams to Bengali language and Literature	Students of different streams will have the opportunity to develop a notion about the Bengali literary work
BNG-A- CC 3	History of Bengali Literature-19th century	2	To provide a detailed knowledge about origin, evolution and development of Bengali Literature and Culture spanning the 19 th Century. Students learn about the basic textual nuances of Modern Bengali Literature and the inextricable interconnection between Literature and Culture	Students get precious information on the revolution of 19 th century in the history of Bengali literature.
BNG-A- CC 4	Bengali Literature: Introductory lesson		To provide students with an opportunity to draw aesthetic enjoyment from literature after acquiring basic knowledge literary work.	Students enjoy the aesthetic flavour from texts.
BNG-A- CC 5	History of Bengali Literature-20th century	3	To provide a detailed knowledge about origin, evolution and development of Bengali Literature and Culture spanning pre-19 th , the 19 th and the 20 th Centuries. Students learn about the basic textual nuances of Early, Medieval and Modern Bengali Literature and the inextricable interconnection between Literature and Culture	Students are introduced with the History of Bengali Literature of 20 th Century.
BNG-A- CC 6	Historical Linguistics		To enlighten the students about the origin and developing phases of Bengali language within the journey of old Indo-Aryan language to New Indian language as well as providing idea about the literary works of that period	Students get the complete idea of Diachronic Linguistics along with text-based example.
BNG-A- CC 7	Fiction		To highlight the sufferings of the modern era, the socio-cultural canopy of casteism, religious taboos, women's position in the Bengali household, environmental issues and people's struggle for socio-economic and political existence.	Students can realise the complexity of modern Bengali society, social status of women, and struggle of subaltern class by the help of some selected novels and short stories.
BNG-A- SEC-A-3-2	Applied Bengali 1		To provide a basic idea to the students who want to work in drama, cinema, serials as a career in future or work as a recital artist.	Students gain the knowledge about story writing based on some plot; cinema and television script writing, dialogue writing, editing, screen play. They also learn about the correct pronunciation of Bengali words, rhyming and recitation, the inter-relation between cinema and literature.
BNG-A- CC 8	Primordial Literature	4	To enlighten the students about the Vaishnava Padavali, Chandimangal and Shakta Padavali and traces the transformation of society, culture and religious formations of medieval period of Bengal.	In the Medieval Literary Texts students get the aesthetic flavour of that time and also informed about the Social-Spiritual and Cultural transformation
BNG-A- CC 9	Prosody, Rhetoric and Poetics		To explain different styles and techniques of Rhetoric and Prosody as well as the basic thoughts of Indian & Western aesthetics.	They acquire knowledge about the Rhetoric, Prosody and Poetics which are very important for the students of literature.
BNG-A- CC 10	Essays and various type of compositions		To enlighten the students about the emergence and growth of the essay, arguments, discourses, subjective perspectives from mid-19 th century	Essays and other writings of eminent personalities enrich the students about the social, political, educational, spiritual, philosophical thoughts of that era.

Course Code	Course Name	Semester	Objective	Outcome
BNG-A- SEC-B-4-2	Applied Bengali 2		To explain the appropriate rules of Bengali spelling, IPA and Roman scripts	Students will be introduced about the structural method of various literary form, spelling, IPA and about Roman Scripts.
BNG-A- CC 11	Forms and genres of Literature	5	To enlighten the students about the different literary forms and their structure	This course will give students an idea about the various genre and formations of literature and also the form, evolution and variation of different manifestation of literature.
BNG-A- CC 12	Drama and theatrical stage		To develop an understanding of theatre as a mirror to the society.	The main object is to give knowledge about the development and evolution of drama and theatrical stage as a mirror of social reality.
BNG-A-DSE-A-1	History of Bengali society and culture		To acquaint the students of our cultural development of the Bengali race from the period of emergence of Bengali language to modern times	The main outcome is the outlines of the cultural development of Bengalis from the time of emergence of Bengali language to modern times.
BNG-A-DSE-B-1	Bengali Juvenile Literature		Conveying to the students about the importance of Juvenile Literature as a rich part of our Bengali classic	This course will give students some lessons about Juvenile Literature as a part of our tradition.
BNG-A-CC13	Modern Bengali Poetry		Bringing the attention of the students the different phases of the new age that was transmitted in Bengali poetry after coming in contact with the colonial modernity	This course will give students a knowledge about the advent of the new age in our poetry came with the touch of Colonial Modernity
BNG-A-CC 14	History of Sanskrit, English and Hindi Literature	6	To give students a basic introduction to the History OF Sanskrit, English and neighbouring Hindi literature	This course will give students a brief introduction about the History of Sanskrit, English and neighbouring Hindi Literature
BNG-A-DSE-A-3	Bengali detective literature, science fiction and unearthly stories		To make students more interested in literature by reading detective stories, science fictions and ghost stories	This course will give students a knowledge about Detective stories, Science Fiction stories and Ghost stories as the teenagers get into the habit of reading through these literatures.
BNG-A-DSE-B-4	Folk culture and folk literature		To introduce students to the rich folk traditions of Bengal	Students will be introduced to some of the lessons of Folk Culture and Folklore to understand the Bengali Tradition and Culture.

Department of Bengali: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
BNG-G-CC/GE1-1	History of Bengali Literature –Modern Era	1	To introduce the students to the dynamic nature of Bengali literature from the period after 1800.	In the later period of 1800 AD the students will get acquainted with the progress of various genres of Bengali Literature.
BNG-AECC-1-1	MIL(Bengali)		To introduce all the students of all different streams to Bengali language and Literature.	Students of different streams will have the opportunity to develop a notion about the Bengali literary work.
BNG-G-CC/GE-2-2	Historical Linguistics, Prosody, Rhetoric	2	To enlighten the students about the origin and development of Bengali language as well as the different styles and techniques of Rhetoric and Prosody.	Students will get an idea about the Origin and Development of Bengali Language. They will get a short knowledge on rhetoric and prosody as one of the elements of composing poetry.
BNG-G-CC/GE-3-3	Bengali Poetry & Drama	3	To make students aware of the aesthetic flavour of Bengali literary works.	After getting a short knowledge on the History of Bengali Language and Literature they will taste the literature and the evolution of Bengali Poetry will be clear to them.
BNG-G-SEC-A-3/5-2	Applied Bengali 1		To provide a basic idea to the students who want to work in drama, cinema, serials as a career in future or work as a recital artist.	These lessons are useful for those students who want to take up Drama, Movies or Recitations as a career in their future.
BNG-G-CC/GE-4-4	Bengali Fiction & Essays	4	To introduce the students to the world of Bengali fictional studies and essays through some selected literary piece.	Students will get a lesson in Bengali Fictions and essays.
BNG-G-SEC-B-4/6-2	Applied Bengali 2		To explain the appropriate rules of Bengali spelling, IPA and Roman scripts	Students will be introduced about the structural method of various literary form, spelling, IPA and about Roman Scripts.
BNG-G-LCC(2)-4-1	Bengal linguistics, forms of literature and poetry		To acquaint the students with the varied aspects of Bengali Language and Literature along with literary composition of Madhusudan Datta	Students get a general overview of Bengali Language and Literature.
BNGG-G-DSE-A-5-2	Bengali detective literature, science fiction and unearthly stories	5	To make students more interested in literature by reading detective stories, science fictions and ghost stories.	This course will give students a knowledge about Detective stories, Science Fiction stories and Ghost stories as the teenagers get into the habit of reading through these literatures.
BNG-G-DSE-B-6-2	Folk culture and folk literature	6	To introduce students to the rich folk traditions of Bengal	Students will be introduced to some of the lessons of Folk Culture and Folklore to understand the Bengali Tradition and Culture.
BNG-G-LCC(2)-6-2	Periodicals and Literature		Let students be aesthetically aware of the influence of Bengali periodicals and Literature on the thought-world	Students come to know the impact of Bengali periodicals on the literary thought-world, and besides this they also gain aesthetic consciousness about selected Bengali novel and some short stories.

Department of Bengali: Mapping Program Outcome (PO) and Course Outcome (CO)

Department of Bengali: Mapping Program Outcome (PO) and Course Outcome (CO)										
Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7	
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning	
Honours										
BNG-A- CC 1	History of Bengali Literature till 1800 AD	1		√	√	√		√	√	
BNG-A- CC 2	Descriptive Linguistics and Bengali Language			√	√	√		√	√	
BNG-AECC-1-1	MIL(Bengali)			√	√	√			√	
BNG-A- CC 3	History of Bengali Literature-19 th century	2	√	√	√	√		√	√	
BNG-A- CC 4	Bengali Literature: Introductory lesson			√	√		√	√	√	
BNG-A- CC 5	History of Bengali Literature-20 th century	3	√	√	√	√			√	
BNG-A- CC 6	Historical Linguistics			√	√	√	√		√	
BNG-A- CC 7	Fiction			√	√	√	√	√	√	
BNG-A- SEC-A-2	Applied Bengali 1			√	√	√			√	
BNG-A- CC 8	Primordial Literature	4		√	√			√	√	
BNG-A- CC 9	Prosody, Rhetoric and Poetics				√	√			√	√
BNG-A- CC 10	Essays and various type of compositions			√	√	√		√		√
BNG-A- SEC-B-2	Applied Bengali 2				√	√				√
BNG-A- CC 11	Forms and genres of Literature	5		√	√			√	√	
BNG-A- CC 12	Drama and theatrical stage			√	√	√		√	√	√
BNG-A-DSE-A-5-1	History of Bengali society and culture			√	√	√				√
BNG-A-DSE-B-5-1	Bengali Juvenile Literature			√	√	√				√
BNG-A- CC 13	Modern Bengali Poetry	6	√	√	√		√	√	√	
BNG-A- CC 14	History of Sanskrit, English and Hindi Literature			√	√	√	√		√	√
BNG-A-DSE-A-6-3	Bengali detective literature, science fiction and unearthly stories			√	√	√			√	√
BNG-A-DSE-B-6-4	Folk culture and folk literature			√	√	√			√	√
General										
BNG-G-CC/GE1-1	History of Bengali Literature –Modern Era	1		√	√			√	√	
BNG-AECC-1-1	MIL(Bengali)				√	√			√	√
BNG-G-CC/GE-2-2	Historical Linguistics, Prosody, Rhetoric	2	√	√	√				√	
BNG-G-CC/GE-3-3	Bengali Poetry & Drama	3	√	√	√			√	√	
BNG-G-SEC-A-3/5-2	Applied Bengali 1			√	√	√				√
BNG-G-CC/GE-4-4	Bengali Fiction & Essays	4	√	√	√		√	√	√	
BNG-G-SEC-B-4/6-2	Applied Bengali 2			√	√	√				√
BNG-G-LCC(2)-4-1	Bengal linguistics, forms of literature and poetry			√	√	√				√
BNGG-G-DSE-A-5-2	Bengali detective literature, science fiction and unearthly stories	5	√	√	√				√	
BNG-G-DSE-B-6-2	Folk culture and folk literature	6	√	√	√			√	√	
BNG-G-LCC(2)-6-2	Periodicals and Literature			√	√	√				√

DEPARTMENT OF BOTANY

Program Outcome and Attainment: Honours & General – SUMMARY

The programme has succeeded to create an understanding about the structure, role, life cycle, identification, classification and diversity of different groups of plants viz., Algae, Bacteria, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms. The programme has taught botanical regions of India and different vegetation types and structure and importance of plant communities, ecosystem structure and function, adaptations, phytoremediation, sustainable development and application of these concepts. Understanding the concepts of photobiology, plant-water physiology and signal coordination of the biomolecules, biochemical contents of the plants and plant products have created a detailed understanding of the bases of improvement of crop and crop biotechnology for human welfare is an important outcome of this 6-semester Botany Honours programme. Overall, the students have been educated on the field and laboratory based microscopic and biochemical techniques which has evidence in the form of the development of research skills of the final semester honours students for which they have co-authored two research works and presented them in the 2nd international symposium organized by the Botanical survey of India during 13-14 Feb, 2023.

Department of Botany: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
BOT-A-CC-1-1	Phycology and microbiology	1	TH: To teach students about basics and some details of green and other algae and virus & bacteria. PR: Best possible hands-on training on preparation of specimens and observation of structure of algae and bacteria.	Th: Students should gather knowledge on ultra structure, functions of algae and microbes. PR: Students should learn about diversity, structure and identification of algae and bacteria pathogens in practical classes as well as in field studies.
BOT-A-CC-1-2	Mycology and phytopathology		TH: To guide students about domain fungi and plant pathogens PR: To confer practical knowledge of fungi and plant pathogens in the students' surroundings.	Th: The course will increase the understanding of the students about the diversity, classification, structure, role of Fungi and economic loss caused by plant pathogens PR: Students will acquire knowledge on different habitats, substrata and diversity of different fungi and plant pathogens in practical classes as well as in field studies
BOT-A-CC-2-3	Plant anatomy	2	TH: To teach students about the scope & importance of plant anatomy, knowledge on various types of tissue systems, normal & anomalous secondary growth in plants. PR: To guide students on sectioning, staining and characterising various types of tissue systems, normal & anomalous secondary growth in plants.	Th: The course would create understanding on the scope & importance of plant anatomy, knowledge on various types of tissue systems, normal & anomalous secondary growth in plants. PR: Students have learnt about anatomical characteristics and diversity of plant tissue systems.
BOT-A-CC-2-4	Archegoniate		TH: To mentor students on structural and functional variations and classification of Bryophyte, Pteridophyta and Gymnosperms plant groups PR: To train students on transverse and longitudinal sectioning the structures of archegoniates	TH: Students have acquired concepts of characteristics and evolution of archegoniates PR: Students are trained about the external and internal structures of Bryophyte, Pteridophyta and Gymnosperms in practical classes and during field studies
BOT-A-CC-3-5	Palaeobotany and palynology	3	TH: Students should learn about different forms of plant fossils and pollen types PR: To demonstrate the students about plant parts of previous ages and to train them how to prepare and observe angiosperm pollen specimens	TH: Students are educated on plants that are extinct today and different types of pollens of various angiosperms PR: Students are trained how to prepare and observe angiosperm pollen specimens and students now learn about plant of previous ages
BOT-A-CC-3-6	Reproductive biology of angiosperms		TH: Students will be able to differentiate properties of reproductive organs like flower at Morphological level. To teach them on plant development from embryo. PR: Students will study the properties of reproductive organs like flower, ovules and fruits.	TH: Students have known to differentiate properties of reproductive organs like flower at Morphological level. To teach them on plant development from embryo. PR: Students know to study properties of reproductive organs like flower, ovules and fruits.

Course Code	Course Name	Semester	Objective	Outcome
BOT-A-CC-3-7	Plant systematics		<p>TH: The students will know about the systematic position of Genera, Species and Families. They will develop knowledge about plant nomenclature. They will understand the status of angiosperms in plant kingdom. They will realize the origin of angiosperms. They will study various systems of classification.</p> <p>PR: To make pupils knowledgeable to study plants of various angiosperm families in the field and working out them for their identification and classification</p>	<p>TH: Students have understood various angiosperm families emphasizing their morphology, distinctive features and nomenclature. They have acquired knowledge of their economic importance also.</p> <p>PR: Pupils have learned to observe and characterize plants of various angiosperm families in the field and working out them for their identification and classification.</p>
BOT-A-SEC-A-3-1	Applied Phycology, Mycology and Microbiology		To teach students about skills of applications of algae, fungi and bacteria.	Students have acquired knowledge on various applications and utility of algae, fungi and microbes.
BOT-A-CC-4-8	Plant geography, ecology and evolution	4	<p>TH: Students will understand plant communities and ecological adaptations in plants. They will learn about biodiversity and its conservation, study botanical regions of India and different vegetation types.</p> <p>PR: Students will know on biological diversity, conservation, population, community and ecosystem structure and function and biochemical properties of habitats; application of these concepts to solve environmental problems.</p>	<p>TH: Students have gathered knowledge on ecosystem, biodiversity conservation, bioremediation, global warming, sustainable development and climate change.</p> <p>PR: Students have knowledge on plant diversity of different phytogeographical regions of India their conservation, population, community and ecosystem structure and function during the field study; application of these concepts to solve environmental problems.</p>
BOT-A-CC-4-9	Economic botany		<p>TH: To provide knowledge on the economical significance of different crop plants</p> <p>PR: To understand the chemical contents of the plant products. Know about the utility of plant resources</p>	<p>TH: Students' learning on the plants' role in human welfare. Students have known importance of plants & plant products</p> <p>PR: Pupils' practical knowledge on experiments on chemical constituents of economic plants</p>
BOT-A-CC-4-10	Genetics		<p>TH: The objective is to impart concepts on Mendelian and non-Mendelian inheritance, genetic mutation</p> <p>PR: To develop practical training on chromosomal karyotype, meiotic stages of pollen mother cells</p>	<p>TH: Students become knowledgeable about Mendelian and non-Mendelian inheritance and the basis of genetic variation</p> <p>PR: Students are to trained how to stain and study mitotic and meiotic stages of plant cells</p>
BOT-A- SEC-B-4-3	Plant Breeding		To develop skills on various conventional as well as modern breeding techniques for crop improvement	The course has create understanding on the scope and importance of breeding of different crops
BOT-A-CC-5-11	Cell and molecular biology		<p>TH: To guide the students on origin and ultrastructural and molecular features of plant cells</p> <p>PR: To train the students about estimation of different biomolecules, nucleolar staining and pollen counting by haemocytometer</p>	<p>TH: The students have learnt about plant parts of previous ages and to train them how to prepare and observe angiosperm pollen specimens</p> <p>PR: Students have acquired knowledge on various hands-on-training on biomolecular estimation and cell and cell organeller staining</p>

Course Code	Course Name	Semester	Objective	Outcome
BOT-A-CC-5-12	Biochemistry	6	<p>TH: To educate pupils about the fundamental molecules of plant cells and organs and their importance in plant metabolism</p> <p>PR: To demonstrate pupils by qualitative and quantitative experiments about the biomolecules of plant body and their importance in plants' structure and function</p>	<p>TH: Pupils are knowledgeable about the constituent molecules of plant body and importance of these molecules in plant organisation and metabolism</p> <p>PR: Pupils are trained to experimentally prove the constituent molecules of plant body and their role in structural and metabolic functions of plants.</p>
BOT-A- DSE-A-5-1	Biostatistics		<p>TH: To impart students discipline specific knowledge on sample, data, statistical variations and test of significance of diverse morphological and reproductive organs</p> <p>PR: To teach how to collect data and samples and correlate their variations for discipline specific awareness</p>	<p>TH: Students are now aware of discipline specific course on sample, data, statistical variations and test of significance of various plant structures</p> <p>PR: The course has created understanding on practical training of significance of and to test different statistical hypotheses</p>
BOT-A- DSE-B-5-5	Plant Biotechnology		<p>TH: To understand different aspects and future of biotechnology in India and abroad. Recognize impact of biotechnology on socioeconomic aspects of life.</p> <p>PR: To gain knowledge of different techniques and instruments related to plant biotechnology.</p>	<p>TH: Students are learnt about different aspects and future of biotechnology. Understand the importance of interdisciplinary and industrial approaches of Biotechnology.</p> <p>PR: Students have gained knowledge of different techniques and instruments of plant biotechnology</p>
BOT-A-CC-6-13	Plant physiology		<p>TH: To educate pupils about the fundamental molecules of plant cells and organs and their importance in plant metabolism</p> <p>PR: To demonstrate pupils by qualitative and quantitative experiments about the biomolecules of plant body and their importance in plants' structure and function</p>	<p>TH: Pupils are knowledgeable about the constituent molecules of plant body and importance of these molecules in plant organisation and metabolism</p> <p>PR: Pupils are trained to experimentally prove the constituent molecules of plant body and their role in structural and metabolic functions of plants.</p>
BOT-A-CC-6-14	Plant metabolism		<p>TH: To teach how structural and functional plant cell molecules coordinate for maintaining physiological and structural properties of plants</p> <p>PR: To demonstrate pupils by quantitative experiments about the metabolic functions of plant body and their importance in plants' structure</p>	<p>TH: Pupils become knowledgeable about the biochemistry of plant body and importance of plant metabolism in plant structure and organisation</p> <p>PR: Pupils are trained to show experimentally about the metabolic reactions of plant body and their role.</p>
BOT-A- DSE-A-6-3	Medicinal and Ethnobotany		<p>TH: To impart students discipline specific knowledge of medicinal plants and ethnobotany because 40% therapeutics primarily originate from natural plants</p> <p>PR: To impart hands-on training on the histological and biochemical properties of medicinal plants.</p>	<p>TH: Students are now aware of discipline specific knowledge of medicinal plants and ethnobotany and active constituents of drugs of plant origin</p> <p>PR: Students practically are now aware of histological and biochemical properties of plants like Vinca, Ginger and Turmeric.</p>
BOT-A- DSE-B-6-7	Research Methodology		<p>TH: Overall, to mentor what research aspects of different branches of plant sciences are important for research designing and how to perform them</p>	<p>TH: Students are now learned about discipline specific knowledge of basic calculations, field and micro- photography, laboratory work outs of plant description, phylogeny, cytology etc., writing research articles</p>

Course Code	Course Name	Semester	Objective	Outcome
			PR: To experimentally exhibit some basic field and laboratory observations, morpho- anatomical, biochemical and biostatistical work outs of different branches of plant sciences for primary research works	PR: Students are educated to perform experimentally at least some basic field and laboratory observations, morpho-anatomical, biochemical and biostatistical work outs of different branches of plant sciences for research designing

Department of Botany: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
BOT-G-CC-1-1	Plant Diversity I (Phycology, Mycology, Phytopathology, Bryophytes and Anatomy)	1	TH: To teach students on structural and functional diversity and classification of Bryophyte, Algae and Fungi. PR: To educate students on practical workout of the structures of Bryophyte, Algae and Fungi.	TH: Students should acquire concepts of structural and functional diversity of Bryophyte, Algae and Fungi. PR: Students are trained about the external and internal structures of Bryophyte, Algae and Fungi in practical classes and during field studies.
BOT-G-CC-2-2	Plant Diversity II (Pteridophytes, Gymnosperms, Palaeobotany, Morphology and Taxonomy)	2	TH: The students will know about the systematic position of Genera, Species and Families of Gymnosperms and Angiosperms and they will develop knowledge about plant nomenclature. They will understand the status of angiosperms and gymnosperms in plant kingdom. PR: To make pupils practical study of plants of various angiosperm and pteridophyte families in the field and working out them for their identification and classification.	TH: Students have understood various angiosperm and gymnosperms families emphasizing their morphology, distinctive features and nomenclature. They have acquired knowledge of their economic importance. PR: Pupils have learned to observe and characterize plants of various angiosperm and pteridophyte families in the field and working out them for their identification and classification.
BOT-G-CC-3-3	Cell Biology, Genetics and Microbiology	3	TH: To guide the students on structural and genetic features of plant cells and microbes. PR: To train the students about cell divisions and chromosomes of plant cells and bacteria.	TH: The students have learnt on structural and genetic features of plant cells and microbes. PR: Students would acquire knowledge on hands-on-training on cell divisions and chromosomes of plant cells and bacteria.
BOT-G-CC-4-4	Plant Physiology and Metabolism	4	TH: To teach pupils about the physiology of plants and their importance in plant metabolism PR: To demonstrate pupils the experiments on plant physiology.	TH: Pupils are knowledgeable about the physiology of plants and their importance in plant metabolism. PR: Pupils are trained to experimentally prove the properties of plant physiology.
BOT-G-SEC-A-5	Plant breeding and biometry	5	To teach skills on various conventional as well as modern breeding techniques and biometry	The course would create understanding on the scope and importance of breeding and biometry of different plants.
BOT-G-DSE-A-5	Phytochemistry and medicinal botany		TH: To impart students discipline specific knowledge of medicinal plants and Phytochemistry PR: To impart field oriented and practical training on the medicinal plants and their biochemical properties.	TH: Students are now aware of discipline specific knowledge of medicinal plants and Phytochemistry. PR: Students practically are now aware of field oriented and practical training on the medicinal plants and their biochemical properties.
BOT-G-SEC-B-6	Plant Biotechnology	6	To teach different aspects and future of biotechnology and their impact on socioeconomic aspects of life.	Students are learnt about different aspects and future of biotechnology and their impact on socioeconomic aspects of life.

Course Code	Course Name	Semester	Objective	Outcome
BOT-G-DSE-B-6-3	Economic Botany		<p>TH: To provide knowledge on the economical significance of different crop plants.</p> <p>PR: To understand the utility of plant resources and cultivation process of some crop plants.</p>	<p>TH: Students' learning on the plants' role in human welfare. Students have known importance of plants & plant products.</p> <p>PR: Pupils' practical knowledge on the utility of plant resources and cultivation process of some crop plants.</p>

Department of Botany: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
BOT-A-CC-1-1	Phycology and microbiology	1	√	√				√	√
BOT-A-CC-1-2	Mycology and phytopathology		√					√	
BOT-A-CC-2-3	Plant anatomy	2	√						
BOT-A-CC-2-4	Archegoniate			√		√	√		
BOT-A-CC-3-5	Palaeobotany and palynology	3							
BOT-A-CC-3-6	Reproductive biology of angiosperms		√						
BOT-A-CC-3-7	Plant systematics		√	√	√		√	√	√
BOT-A-SEC-A-3-1	Applied Phycology, Mycology and Microbiology		√				√	√	
BOT-A-CC-4-8	Plant geography, ecology and evolution	4		√		√		√	
BOT-A-CC-4-9	Economic botany		√		√	√	√		
BOT-A-CC-4-10	Genetics		√				√		√
BOT-A-SEC-B-4-3	Plant Breeding				√	√	√	√	
BOT-A-CC-5-11	Cell and molecular biology	5	√						√
BOT-A-CC-5-12	Biochemistry		√				√	√	√
BOT-A-DSE-A-5-1	Biostatistics		√						√
BOT-A-DSE-B-5-5	Plant Biotechnology				√			√	
BOT-A-CC-6-13	Plant physiology	6						√	√
BOT-A-CC-6-14	Plant metabolism		√						√
BOT-A-DSE-A-6-3	Medicinal and Ethnobotany				√	√			
BOT-A-DSE-B-6-7	Research Methodology		√	√		√	√	√	√
General									
BOT-G-CC-1-1	Plant Diversity I (Phycology, Mycology, Phytopathology, Bryophytes and Anatomy)	1	√	√				√	√
BOT-G-CC-2-2	Plant Diversity II (Pteridophytes, Gymnosperms, Palaeobotany, Morphology andTaxonomy)	2			√	√	√	√	
BOT-G-CC-3-3	Cell Biology, Genetics and Microbiology	3	√				√		√
BOT-G-CC-4-4	Plant Physiology andMetabolism	4	√						√
BOT-G-SEC-A-3/5-1	Plant breeding and biometry	5			√		√	√	
BOT-G-DSE-A-5-1	Phytochemistry and medicinal botany		√	√	√		√		
BOT-G-SEC-B-4/6-3	Plant biotechnology	6	√				√	√	
BOT-G-DSE-B-6-3	Economic botany				√	√	√	√	

DEPARTMENT OF CHEMISTRY

Program Outcome and Attainment: General – SUMMARY

- Students will be able to understand basic concept in different field of chemistry.
- Students will be able to solve chemistry related problem with logical conclusion.
- Find out the green route for chemical reaction for sustainable development.
- Students will be able to get good laboratory practice with proper safety.
- Students will be able to demonstrate the experimental techniques and methods for chemical analysis, synthesis and important data collection and their interpretation.
- Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
- To prepare the students for a successful career in industry and to motivate them for higher education and take up research as a career.
- To develop an opportunity to work in interdisciplinary groups

Department of Chemistry: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC1/GE1	Physical chemistry, General chemistry, fundamentals of organic chemistry	1	Concepts of Kinetic Theory, Atomic Structure, Chemical Periodicity, Acids and Bases are discussed with students to achieve working knowledge of Organic chemistry, Properties of matter, quantitative calculation of physical reactions	CO 1. To learn about the Kinetic Theory of Gases and Real Gases. To get an idea about the liquid state of matter, chemical kinetics. CO 2. To learn the basic concept of Atomic Structure, Chemical Periodicity and Acids and Bases. CO 3. To learn about the fundamentals of organic chemistry, stereochemistry, nucleophilic substitution and elimination reactions. CO 4. To learn experimentally the quantitative estimation of some compounds and ions in a solution by using iodometric titration, permanganate titration and dichromate titration.
CC2/GE2	Physical Chemistry, organic chemistry, inorganic chemistry, error analysis and computer application	2	Concepts of Thermodynamic, Chemical / Physical equilibrium and properties of solid are discussed to achieve working knowledge of Heat and Internal energy exchange mechanism and thermodynamic equilibrium of chemical systems	CO 1. To learn about Thermodynamics, Chemical Equilibrium, Solutions, Phase Equilibria and Solids. CO 2. To learn the basic concept of Aliphatic Hydrocarbons. CO 3. To learn about the Error Analysis and Computer applications. CO 4. To understand the various types of Redox Reactions and their applications CO 5. To learn experimentally the how to study the kinetics of some reactions, viscosity of unknown liquid, surface tension of a liquid and solubility of sparingly soluble salt.
CC3/GE3	Comparative study of elements, bonding, electro chemistry, organic chemistry	3	Concepts of Chemical Bonding and Molecular Structure, Aromatic Hydrocarbons, Organometallic Compounds and Aryl Halides. Electrochemistry are discussed to achieve working knowledge of structure of molecules, electrochemical cell, importance of organometallic compounds in organic chemistry	CO 1. To understand Chemical Bonding and Molecular Structure and also, to learn about the p-Block Elements, Transition Elements and Coordination Chemistry. CO 2. To learn the basic concept of Aromatic Hydrocarbons, Organometallic Compounds and Aryl Halides. CO 3. To get detailed knowledge of Electrochemistry. CO 4. To study experimentally the qualitative detection of known and unknown radicals in a mixture.
SEC (A)	1. Basic Analytical Chemistry 2. Analytical clinical biochemistry		Concepts of basic principles of analytical chemistry and clinical biochemistry are discussed to achieve (SEC1) working knowledge of analysis of soil, water and food and chromatographic method of separation of compounds (SEC 2) working knowledge of biochemistry of different diseases through blood and urine analysis	SEC-1. Basic Analytical Chemistry CO 1. To get a basic idea of analytical chemistry, sampling, accuracy and precision, sources of errors in analytical measurements. CO 2. To learn about the analysis of soil, cosmetics, water and food products. CO 3. To understand Chromatography and Ion-exchange phenomenon. SEC-2. Analytical clinical biochemistry CO 1. To learn about the preparation, structures, reactions and biological importance of carbohydrates, proteins, enzymes, lipids and lipoproteins. CO 2. To know the biochemistry of different diseases through a diagnostic approach by blood and urine analysis.
CC4/GE4	Organic chemistry, quantum chemistry, crystal field theory	4	Concepts of fundamentals of quantum chemistry and crystal field theory, various group of organic compounds are discussed to achieve basic knowledge quantum theory and to solve numerical problems, properties of some compounds and structure of metal complexes	CO 1. To learn about Alcohols, Phenols, Ethers, Carbonyl Compounds, Amines, Diazonium Salts, Amino Acids and Carbohydrates. CO 2. To learn the basic concept of Crystal Field Theory. CO 3. To learn about the fundamentals of Quantum Chemistry and Spectroscopy. Fundamentals of quantum chemistry

Course Code	Course Name	Semester	Objective	Outcome
				CO 4. To learn experimentally the qualitative analysis of single solid organic compound(s) and identification of a pure organic compound
SEC (B)	1. Pharmaceuticals Chemistry 2. Pesticide Chemistry		Pharmaceutical Chemistry Concepts of drug designing and development are discussed to achieve basic knowledge about discovery and upgradation of drugs Pesticide Chemistry Concepts of preparation, properties and effects of various pesticides are discussed to achieve basic knowledge about commonly used groups of pesticides	SEC-3. Pharmaceuticals Chemistry CO 1. To learn about the drug discovery, design and development of representative drugs of the following classes: Analgesics, Antipyretic, Anti-inflammatory, Anti-bacterial, Antifungal, Antiviral, Antibiotics, Anti-leprosy, Central Nervous System agents, HIV-AIDS related drugs. CO 2. To get idea about aerobic and anaerobic fermentation. SEC-4. Pesticide Chemistry CO 1. To learn about the preparation, structures, properties, reactions, benefits and adverse effects of representative pesticide of the following classes: Organochlorines, Organophosphates, Carbamates, Quinones.
DSE (A)	Novel Inorganic Solids	5	Concepts of synthesis of various inorganic solids are discussed to introduce some industrially important compounds of present and future	DSE A-1. Novel Inorganic Solids CO 1. Introduces students with advance fields of chemistry like synthetic modification of different industrially important Inorganic solids, synthesis of Nano material, polymers etc. CO 2. To understand how to synthesize hydro-gel by co-precipitation method and silver and gold nanoparticles. CO 3. Determination of ions by cation exchange method and total difference of solids in a composite material.
	Inorganic Materials of Industrial Importance		Concepts of synthesis of various inorganic solids are discussed to introduce some industrially important compounds of present and future	DSE A-2. Inorganic Materials Of Industrial Importance CO 1. Students will learn the synthetic procedure and use of different commercially important materials like silicates, fertilizers, alloys, catalysts, surface coating materials and batteries. CO 2. To learn about the general principles, properties, classification, industrial use, deactivation and regeneration of catalysis. CO 3. To learn about the preparation and explosive properties of lead azide, PETN, RDX and the basic idea of rocket propellant. CO 4. The practical course helps to to learn how to analyse the composition of dolomite, composition of percentage of metals in alloy, electroless metallic coatings on ceramic and plastic. CO 5. To know how to determine free acidity in ammonium sulphate fertilizer, estimation of Calcium in Calcium ammonium nitrate fertilizer and phosphoric acid in superphosphate fertilizer.
DSE (B)	. Green Chemistry And Chemistry Of Natural Products	6	Concepts of Green Chemistry and its application are discussed to achieve working knowledge of sustainable development in chemical industry	DSE B-1. Green Chemistry And Chemistry Of Natural Products CO 1. Students of undergraduate course are continuously being introduced and encouraged about the different possibilities in this field. It helps students to think and perform to design and develop environmentally benign methods for organic synthesis. CO 2. To know about the examples of green reactions and future trends in green reaction.

Course Code	Course Name	Semester	Objective	Outcome
				CO 3. To learn how to perform green synthesis of a number of organic compounds in the laboratory.
	Analytical Methods in Chemistry		Some analytical methods and principles for identification of a compound and separation of a mixture are discussed to achieve working knowledge of different analytical methods used in practical field of chemistry	DSE B-2. Analytical Methods In Chemistry CO 1. Helps to learn about different analytical methods (Flame Atomic Absorption and Emission Spectrometry, Thermogravimetry, pH metric, Potentiometric and Conductometric Titrations) to identify and separate the products formed during different chemical transformations. CO 2. To study the fundamental laws of spectroscopy and selection rules. CO 3. To learn the methods of separation of stereoisomers by spectral chemical and chromatographic data analysis (IC, GLC, GPC, TLC and HPLC). CO 4. To study experimentally how to separate and identify a mixture of monosaccharides by chromatography method. CO 5. To learn experimentally how to separate a mixture of ions by solvent extraction technique; determination of pH of soil and estimation of Ca, Mg and phosphate ion in soil. CO 6. To determine the pKa values of a indicator, COD and BOD using spectrophotometry.

Department of Chemistry: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
CC1/GE1	Physical chemistry, General chemistry, fundamentals of organic chemistry	1	✓						
CC2/GE2	Physical Chemistry, organic chemistry, inorganic chemistry, error analysis and computer application	2					✓		
CC3/GE3	Comparative study of elements, bonding, electro chemistry, organic chemistry	3	✓		✓	✓			
SEC (A) (1/2)	1. Basic Analytical Chemistry 2. Analytical clinical biochemistry		✓	✓	✓				
CC4/GE4	Organic chemistry, quantum chemistry, crystal field theory	4					✓	✓	✓
SEC (B) (3/4)	1. Pharmaceuticals Chemistry 2. Pesticide Chemistry		✓				✓	✓	✓
DSE (A) -1	Novel Inorganic Solids	5		✓			✓	✓	✓
DSE (A) -2	Inorganic Materials of Industrial Importance			✓			✓	✓	✓
DSE (B) -1	Green Chemistry and Chemistry of Natural Products	6	✓		✓	✓	✓		✓
DSE (B) - 2	Analytical Methods In Chemistry		✓		✓	✓	✓		✓

DEPARTMENT OF COMMERCE

Program Outcome and Attainment: B. Com (Honours & General) – SUMMARY

Upon completion of B.Com. (Honours or General) programme, the graduates will be able to:

- Acquire the necessary knowledge about business success potential.
- Recognize the practical concerns and challenges that the trading world faces.
- Apply concepts, principles, and procedures to effectively conduct business.
- Gain analytical skills in commercial enterprises and analyse the benefits and drawbacks of engaging in trade and trade-related activities based on their extensive knowledge.
- Pursue a CA, CMA, ACS, CFA, M.Com. MBA, or other career-oriented programmes.

Be employable, demonstrate entrepreneurial drive, and serve as a role model for ethical business professionals.

Department of Commerce: Course Outcomes: Accountancy Honours

Course Code	Course Name	Semester	Objective	Outcome
CC1.1Ch	Financial Accounting-I	1	To provide conceptual knowledge of financial accounting and to help students to acquire skills for recording various kinds of business transactions.	On completion of the course, the students will acquire conceptual knowledge of financial accounting as well as skills for recording various types of business transactions.
CC1.1Chg	Business Laws		To impart basic knowledge of important Indian business legislations along with relevant case laws.	Students will receive a foundational understanding of key Indian business laws and pertinent case law upon completion of the course.
CC1.2Chg	Principles of Management		To acquaint the students with basic management concepts, principles and practices.	On completion of the course, the students will conceptualise the basic management concepts, principles and practices.
GE1.1Chg	Microeconomics-I & Statistics		To provide the concepts of microeconomics dealing with consumer behaviour and the supply side of the market through firms' production and cost behaviour. To familiarise the students with the essential statistical tools, emphasising applications to business and economic situations.	After completing the course, students will learn the fundamentals of microeconomics dealing with consumer behaviour and the supply side of the market through company output and cost behaviour. After completing the course, the students will familiarise themselves with the essential statistical tools and their applications to business and economic situations.
CC2.1Ch	Cost and Management Accounting-I	2	To provide basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting systems, and the use of financial, cost and other data for managerial planning, control and decision making.	Students will understand the fundamental concepts of cost accounting, the many methodologies involved in cost determination and cost accounting systems, and use financial, cost, and other data for managerial planning, control, and decision-making upon course completion.
CC2.1Chg	Company Law		To impart basic knowledge of the provisions of the Companies Act 2013 and relevant rules.	Upon completion of the course, the students will familiarise themselves with the Companies Act, 2013 provisions and relevant rules.
CC2.2Chg	Marketing Management & Human Resource Management		To provide basic knowledge of various concepts, principles, tools and marketing techniques. To provide basic knowledge of concepts and principles of managing an organisation's human resources.	Upon completing the course, the students will acquire basic knowledge of various concepts, principles, tools and marketing techniques. Upon completing the course, students will comprehend the fundamental concepts and principles of human resource management.
GE2.1Chg	E-Commerce & Business Communication		To acquaint the students with the mechanism for conducting business transactions through electronic means. To equip students to acquire reading, writing, comprehension and communication skills and use electronic media for business communication.	The students will be familiarised with the mechanism for conducting business transactions electronically after completing the course. After finishing the course, students will be able to read, write, comprehend, and communicate well and use electronic media effectively for commercial purposes.
CC3.1Ch	Financial Accounting-II	3	To provide an advanced understanding of the Financial Accounting system and to impart skills in accounting for various kinds of business transactions.	Upon completing this course, students will acquire extensive knowledge of the Financial Accounting system and acquire abilities in accounting for all types of business transactions.
CC3.2Ch	Indian Financial System		To provide the students with a basic knowledge of the components and structure of the Indian Financial System.	Students will be conversant with the components and structure of the Indian Financial System upon course completion.
GE3.1Chg	Business Mathematics & Statistics		To provide basic knowledge about Mathematical and Statistical Tools and their application in business.	After completing the course, students will have a fundamental understanding of Mathematical and Statistical Tools and their applications in business.

Course Code	Course Name	Semester	Objective	Outcome
SEC3.1Chg	Information Technology & Its Application in Business		To provide basic knowledge about computer-both hardware and software, and their application in business.	On completion of the course, the students will acquire basic knowledge about computer-both hardware and software and its application in business.
CC4.1Ch	Taxation-I	4	To provide basic knowledge about applying the Income-tax Act, 1961 provisions and the relevant Rules.	After the course, students will have acquired fundamental knowledge about applying the Income-tax Act, 1961 provisions and the pertinent Rules.
CC4.2Ch	Cost and Management Accounting-II		To enable students to analyse, evaluate, and utilise cost and management accounting information for managerial decision-making.	Students will be able to analyse, understand, and utilise cost and management accounting information in managerial decision-making upon course completion.
CC4.1Chg	Entrepreneurship Development and Business Ethics		To orient the student toward entrepreneurship as a viable career option, as well as creative thinking and behaviour, and how to follow Business Ethics in Business.	After completing the course, students will have a better understanding of entrepreneurship as a feasible career option, as well as innovative thinking and behaviour, as well as how to follow Business Ethics in Business.
GE4.1Chg	Microeconomics-II & Indian Economy		To familiarise students with economic fundamentals as they apply to business, the significant economic challenges in India, and their solutions.	After completing the course, students will be familiar with economic basics as they apply to business and India's primary economic concerns and solutions.
CC5.1Ch	Auditing & Assurance	5	To provide knowledge of auditing principles, procedures and techniques, relevant legal requirements, and professional standards.	By the end of the course, students will have a firm grasp of the fundamentals of auditing and the skills necessary to comply with all applicable regulatory and professional requirements.
CC5.2Ch	Taxation-II		To provide knowledge about applying the principles and provisions of the Income-tax Act, 1961, the Goods and Services Tax Act, 2017 and the relevant Rules.	After completing the course, students can apply the concepts and provisions of the Income-tax Act of 1961, the Goods and Services Tax Act of 2017, and the related Rules.
DSE5.1A	Economics-II & Advanced Business Mathematics		To familiarise students with business economic fundamentals that apply to business at the macro level. To impart extensive knowledge of Mathematical Tools and their business applications.	After completing the course, students will be familiar with business economic basics that relate to business at the macro level. After completing the course, students will thoroughly understand Mathematical Tools and their business applications.
DSE5.2A	Corporate Accounting		To provide conceptual knowledge of corporate accounting principles and the techniques of preparing corporate financial statements.	Upon completing the course, the students will acquire conceptual knowledge of corporate accounting principles and the techniques for preparing corporate financial statements.
CC6.1Ch	Project Work	6	To enable the students to collect, analyse, interpret and present data on a given topic.	Students will be able to collect, analyse, interpret and present data on a given topic after completing the course.
DSE6.1A	Financial Reporting and Financial Statement Analysis		To provide conceptual and practical knowledge of financial reporting and the analysis and interpretation of financial statements.	Upon course completion, students will obtain conceptual and practical knowledge of financial reporting and the analysis and interpretation of financial statements.
DSE6.2A	Financial Management		To familiarise the students with the principles and practices of financial management.	On completion of the course, the students will acquire knowledge of the principles and practices of financial management.
SEC6.1Chg	Computerised Accounting and e-Filing of Tax Returns		To provide an understanding of computerised accounting and its applications in various industries and practical knowledge of tax return e-filing.	Students will obtain an awareness of computerised accounting and its applications in many businesses, as well as practical experience in the e-filing of tax returns after the course.

Department of Commerce: Course Outcomes: B. Com General

Course Code	Course Name	Semester	Objective	Outcome
CC1.1Cg	Financial Accounting-I	1	To provide conceptual knowledge of financial accounting and to help students to acquire skills for recording various kinds of business transactions.	On completion of the course, the students will acquire conceptual knowledge of financial accounting as well as skills for recording various types of business transactions.
CC1.1Chg	Business Laws		To impart basic knowledge of important Indian business legislations along with relevant case laws.	Students will receive a foundational understanding of key Indian business laws and pertinent case law upon completion of the course.
CC1.2Chg	Principles of Management		To acquaint the students with basic management concepts, principles and practices.	On completion of the course, the students will conceptualise the basic management concepts, principles and practices.
GE1.1Chg	Microeconomics-I & Statistics		To provide the concepts of microeconomics dealing with consumer behaviour and the supply side of the market through firms' production and cost behaviour. To familiarise the students with the essential statistical tools, emphasising applications to business and economic situations.	After completing the course, students will learn the fundamentals of microeconomics dealing with consumer behaviour and the supply side of the market through company output and cost behaviour. After completing the course, the students will familiarise themselves with the essential statistical tools and their applications to business and economic situations.
CC2.1Cg	Cost and Management Accounting-I	2	To provide basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting systems, and the use of financial, cost and other data for managerial planning, control and decision making.	Students will understand the fundamental concepts of cost accounting, the many methodologies involved in cost determination and cost accounting systems, and use financial, cost, and other data for managerial planning, control, and decision-making upon course completion.
CC2.1Chg	Company Law		To impart basic knowledge of the provisions of the Companies Act 2013 and relevant rules.	Upon completion of the course, the students will familiarise themselves with the Companies Act, 2013 provisions and relevant rules.
CC2.2Chg	Marketing Management & Human Resource Management		To provide basic knowledge of various concepts, principles, tools and marketing techniques. To provide basic knowledge of concepts and principles of managing an organisation's human resources.	Upon completing the course, the students will acquire basic knowledge of various concepts, principles, tools and marketing techniques. Upon completing the course, students will comprehend the fundamental concepts and principles of human resource management.
GE2.1Chg	E-Commerce & Business Communication		To acquaint the students with the mechanism for conducting business transactions through electronic means. To equip students to acquire reading, writing, comprehension and communication skills and use electronic media for business communication.	The students will be familiarised with the mechanism for conducting business transactions electronically after completing the course. After finishing the course, students will be able to read, write, comprehend, and communicate well and use electronic media effectively for commercial purposes.
CC3.1Cg	Financial Accounting-II	3	To provide an advanced understanding of the Financial Accounting system and to impart skills in accounting for various kinds of business transactions.	Upon completing this course, students will acquire extensive knowledge of the Financial Accounting system and acquire abilities in accounting for all types of business transactions.
GE3.1Chg	Business Mathematics & Statistics		To provide basic knowledge about Mathematical and Statistical Tools and their application in business.	After completing the course, students will have a fundamental understanding of Mathematical and Statistical Tools and their applications in business.
SEC3.1Chg	Information Technology & Its Application in Business		To provide basic knowledge about computer-both hardware and software, and their application in business.	On completion of the course, the students will acquire basic knowledge about computer-both hardware and software and its application in business.
CC4.1Cg	Taxation-I	4	To provide basic knowledge about applying the Income-tax Act, 1961 provisions and the relevant Rules.	After the course, students will have acquired fundamental knowledge about applying the Income-tax Act, 1961 provisions and the pertinent Rules.

Course Code	Course Name	Semester	Objective	Outcome
CC4.2Cg	Cost and Management Accounting-II		To enable students to analyse, evaluate, and utilise cost and management accounting information for managerial decision-making.	Students will be able to analyse, understand, and utilise cost and management accounting information in managerial decision-making upon course completion.
CC4.1Chg	Entrepreneurship Development and Business Ethics		To orient the student toward entrepreneurship as a viable career option, as well as creative thinking and behaviour, and how to follow Business Ethics in Business.	After completing the course, students will have a better understanding of entrepreneurship as a feasible career option, as well as innovative thinking and behaviour, as well as how to follow Business Ethics in Business.
GE4.1Chg	Microeconomics-II & Indian Economy		To familiarise students with economic fundamentals as they apply to business, the significant economic challenges in India, and their solutions.	After completing the course, students will be familiar with economic basics as they apply to business and India's primary economic concerns and solutions.
CC5.1Cg	Auditing & Assurance	5	To provide knowledge of auditing principles, procedures and techniques, relevant legal requirements, and professional standards.	By the end of the course, students will have a firm grasp of the fundamentals of auditing and the skills necessary to comply with all applicable regulatory and professional requirements.
DSE5.1A	Taxation-II		To provide knowledge about applying the principles and provisions of the Income-tax Act, 1961, the Goods and Services Tax Act, 2017 and the relevant Rules.	After completing the course, students can apply the concepts and provisions of the Income-tax Act of 1961, the Goods and Services Tax Act of 2017, and the related Rules.
DSE5.2A	Corporate Accounting		To provide conceptual knowledge of corporate accounting principles and the techniques of preparing corporate financial statements.	Upon completing the course, the students will acquire conceptual knowledge of corporate accounting principles and the techniques for preparing corporate financial statements.
DSE6.1A	Financial Reporting and Financial Statement Analysis	6	To provide conceptual and practical knowledge of financial reporting and the analysis and interpretation of financial statements.	Upon course completion, students will obtain conceptual and practical knowledge of financial reporting and the analysis and interpretation of financial statements.
DSE6.2A	Financial Management		To familiarise the students with the principles and practices of financial management.	On completion of the course, the students will acquire knowledge of the principles and practices of financial management.
SEC6.1Chg	Computerised Accounting and e-Filing of Tax Returns		To provide an understanding of computerised accounting and its applications in various industries and practical knowledge of tax return e-filing.	Students will obtain an awareness of computerised accounting and its applications in many businesses, as well as practical experience in the e-filing of tax returns after the course.

Department of Commerce: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC1.1Ch	Financial Accounting-I	1	√	√				√	√
CC1.1Chg	Business Laws			√	√	√	√		√
CC1.2Chg	Principles of Management			√	√	√	√		√
GE1.1Chg	Microeconomics-I & Statisitcs			√			√		√
CC2.1Ch	Cost and Management Accounting-I	2	√	√				√	√
CC2.1Chg	Company Law			√	√	√	√		√
CC2.2Chg	Marketing Management & Human Resource Management			√	√	√	√		√
GE2.1Chg	E-Commerce & Business Communication			√	√	√	√		√
CC3.1Ch	Financial Accounting-II	3	√	√				√	√
CC3.2Ch	Indian Financial System				√	√	√		√
GE3.1Chg	Business Mathematics & Statistics			√	√				√
SEC3.1Chg	Information Technology & Its Application in Business			√	√				√
CC4.1Ch	Taxation-I	4	√	√			√	√	√
CC4.2Ch	Cost and Management Accounting-II			√	√			√	√
CC4.1Chg	Entrepreneurship Development and Business Ethics				√	√	√		√
GE4.1Chg	Microeconomics-II & Indian Economy			√			√		√
CC5.1Ch	Auditing & Assurance	5	√	√			√	√	√
CC5.2Ch	Taxation-II			√	√		√	√	√
DSE5.1A	Economics-II & Advanced Business Mathematics			√	√		√	√	√
DSE5.2A	Corporate Accounting			√	√			√	√
CC6.1Ch	Project Work	6	√	√	√		√		√
DSE6.1A	Financial Reporting and Financial Statement Analysis			√	√	√	√	√	√
DSE6.2A	Financial Management			√	√	√	√	√	√
SEC6.1Chg	Computerised Accounting and e-Filing of Tax Returns			√	√	√		√	√
General									
CC1.1Cg	Financial Accounting-I	1	√	√				√	√
CC1.1Chg	Business Laws				√	√	√		√
CC1.2Chg	Principles of Management				√	√	√		√
GE1.1Chg	Microeconomics-I & Statisitcs			√			√		√
CC2.1Cg	Cost and Management Accounting-I	2	√	√				√	√
CC2.1Chg	Company Law				√	√	√		√
CC2.2Chg	Marketing Management & Human Resource Management				√	√	√		√
GE2.1Chg	E-Commerce & Business Communication				√	√	√		√

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
CC3.1Cg	Financial Accounting-II	3	√	√				√	√
GE3.1Chg	Business Mathematics & Statistics		√	√					√
SEC3.1Chg	Information Technology & Its Application in Business		√	√					√
CC4.1Cg	Taxation-I	4	√	√			√	√	√
CC4.2Cg	Cost and Management Accounting-II		√	√				√	√
CC4.1Chg	Entrepreneurship Development and Business Ethics			√	√	√	√		√
GE4.1Chg	Microeconomics-II & Indian Economy		√				√		√
CC5.1Ch	Auditing & Assurance	5	√	√			√	√	√
DSE5.1A	Taxation-II		√	√			√	√	√
DSE5.2A	Corporate Accounting		√	√				√	√
DSE6.1A	Financial Reporting and Financial Statement Analysis	6	√	√	√		√	√	√
DSE6.2A	Financial Management		√	√	√		√	√	√
SEC6.1Chg	Computerised Accounting and e-Filing of Tax Returns		√	√	√			√	√

DEPARTMENT OF ECONOMICS

Program Outcome and Attainment: Honours & General – SUMMARY

PO1 - Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2 - Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 - Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4 - Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5 - Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 - Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7 - Self-directed and Life-long Learning: Acquire the ability to engage in independent and lifelong learning in the broadest context socio-technological changes.

Department of Economics: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
ECO-A-CC-1-1	Introductory Microeconomics	1	Learners will be able to identify and explain economic concepts and theories related to the behavior of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies.	Develops skills of flexibility, problem solving ability and analysis of microeconomic economic issues
ECO-A-CC-1-2	Mathematical Methods for Economics-I		Attempts to enlighten the students about the concept of sets, function, limit and continuity of function, to analyze the Meaning of derivatives, rules of differentiation for a function of one variable.	This paper helps the students to grasp the basics of mathematics underlying economic theories
ECO-A-CC-2-3	Introductory Macroeconomics	2	Learners will be able to identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.	Emphasizes on analysis of macroeconomic issues with its subsequent impact on policy making.
ECO-A-CC-2-4	Mathematical Methods for Economics-II		Attempts to about acquaint the student's partial differentiation and elasticity of function, to acquaint the students about matrix and determinants and need to disciplinary action.	This paper helps the students to grasp the hardcore of mathematics underlying economic theories
ECO-A-CC-3-5	Intermediate Microeconomics-I	3	Learners will be able to integrate theoretical knowledge with quantitative and qualitative evidence in order to explain past economic events and to formulate predictions on future ones.	Provides a sound training in microeconomic theory to formally analyse the behaviour of individual agents. Mathematical tools are used to facilitate understanding of the basic concepts.
ECO-A-CC-3-6	Intermediate Macroeconomics-I		Learners will be able to discuss the linkages between financial markets and the real economy, and how these linkages influence the impact of economic policies over differing time horizons.	Helps to develop the skills of an economist, equipping you to understand how firms interact with the overall economic environment, government policies and effects
ECO-A-CC-3-7	Statistics for Economics		To come to an understanding the Meaning of data collection and measures of central tendency and dispersion. Attempts to teach the student about correlation and regression analysis. An insight into the time series and index number to understand the probability and its theoretical distribution.	Helps to develop the statistical skills of an economist and introduce the students to data interpretation.
ECO-A-SEC-3 A1/A2	1. Data Analysis / 2. Development		Learners will be able to identify about the various methods of collection and representation of census and sample data, some basic concept of Indian official statistics published by CSO, NSSO, Census and RBI. Or Course Objectives the goal of this course is to provide students with the essential tools and concepts of development economics.	1. Helps to develop skills for both primary and secondary data collection and understanding the Government databases. To familiarize participants with Statistical packages such as STATA/R/SPSS/EXCEL 2. These courses relates to every aspect of rural economy, the policy decisions adopted by governments and the development goals achieved
ECO-A-CC-4-8	Intermediate Microeconomics-II	4	Learners will be able to evaluate the consequences of economic activities and institutions for individual and social welfare.	Provides a complete training in Microeconomic theory to formally analyse the behaviour of different market

Course Code	Course Name	Semester	Objective	Outcome
			Learners will be able to identify the basic features of alternative representations of human behavior in economics.	agents. Also helps develop understanding of social choice / behaviour with optimal allocations and general equilibrium
ECO-A-CC-4-9	Intermediate Macroeconomics-II		Learners will be able to describe the main macroeconomic theories of short term fluctuations and long term growth in the economy. Learners will be able to critically evaluate the consequences of basic macroeconomic policy options under differing economic conditions within a business cycle.	Helps to equip the economist with the dynamics of the overall economic environment and how government policy affects the economy and how financial systems operate.
ECO-A-CC-4-10	Introductory Econometrics		Learners will be able to learn about the nature and the scope of econometrics, the theories of classical linear regression model (two and multiple variables), the proprieties of regression estimates, statistical inference in linear regression model, the violation of the assumptions of linear regression model and some issues of specification problems.	Provides a theoretical introduction to the basic analytical skills of data handling and analysis required at academic, financial, business and government research and findings.
ECO-A-SEC-4-2B1/B2	1. Research Methodology / 2. Managerial Economics		This course is to provide basic practical knowledge of Economics research analysis on various topics. Or Learners will be able to learn about the demand, cost & profit analysis, the pricing policies & practices, the theory of capital budgeting, theory of cost of capital and concept of inventory management	To familiarize participants with basics of research and the research process, to enable the participants in conducting research work and formulating research synopsis and report. To impart knowledge for enabling students to develop analytics skills and meaningful interpretation to the data sets so as to solve the Research / business problem. Or It makes understand the break-even analysis, pricing policies, acquire ample knowledge about capital budgeting, the fundamentals of cost of capital, the method of inventory management.
ECO-A-CC-5-11	International Economics	5	To teach the Nature and scope of international economics, to introduce the students about various trade policy, to make them know what is international macroeconomics policy, to analyze the balance of payment.	Providing the outline to intricacies of trade theories and policies and thus enabling the students to acquire proper analytical ability about international business transactions including government/international policies.
ECO-A-CC-5-12	Indian Economy		To Study the major issues of Indian economy.	It highlights major policy debates and evaluates their empirical evidence and impacts on Indian economy

Course Code	Course Name	Semester	Objective	Outcome
ECO-A-DSE-5-A (1.1) / ECO-A-DSE-5-A (1.2)	DSE-A (1) Applied Econometrics / Economic History of India (1857-1947)		Attempts to enlighten the students about the economics condition of Indian economy during the pre-British period & basic features of Indian economy & Demographic trends in India. Or Learners will be able to learn about strategies and policies for economic development (laissez faire, industrialization of Soviet Union etc.) and the regions of contemporary development.	1. Enables an in-depth analysis of the data handling methods applied to econometric theories/ Informs the students about the historical evolution of the Indian economy during the pre-independence period. Helps understand the development and exploitations of the Indian Economy 2. Understanding evolution of the early development theories and policies adopted in process in developing economies like the then Soviet Union, China, countries of Latin America and Africa. Essential for economists for better understanding of policy changes / Better exposure to classical finance models underpinning modern finance. Understanding the role played by time, uncertainty, information and inflation in evaluating financial instruments; understanding the role of asymmetric information in various financial markets. understand how contractual incompleteness can impact corporate financial decisions.
ECO-A-DSE-5-B (1.1) / ECO-A-DSE-5-B (1.2)	DSE- B (1) Comparative Economic Development (1850- 1950) / Financial Economics			
ECO-A-CC-6-13	Public Economics	6	To introduce students to the public sector reform agenda with a focus on public finance issues; to demonstrate administrative, political, and economic constraints to public finance reforms; to develop analytical skills of the students in three major areas of public finance reforms (performance-based budgeting, mid-term financial planning, budget decentralization); to train students how to develop budgeting and performance evaluation systems for public sector institutions; to develop students' skills on how to write a public policy paper and make a presentation on public policy issue. The goal is to develop students' analytical and consulting skills in the area of public finance.	Introduces the students to the functioning of the government finances and revenue with broader relevant policies
ECO-A-CC-6-14	Development Economics		To explore diverse dimensions and measures of development, as well as the application of microeconomic analysis to issues of development in poor countries, including the study of household decisions and the analysis of institutions and norms influencing development.	Links institutions and agents of development by discussing the role of the state in economic development; relates to the aspect of lives, from the decisions we make as individuals to the policies possibly to be adopted by governments with related factors of production available in the economy
ECO-A-DSE-5-A (2.1) / ECO-A-DSE-5-A (2.2)	DSE-A (2) Money and Financial Markets Or		Learners will be able to learn about the theory of investment & profit analysis (deterministic & random cash flow, CAPM etc.), options & derivatives and finally corporate finance in detail/ Learners will be able to learn about the growth and structural	1. Understanding the different components of a financial system and their role, the recent developments in the Indian financial system, understanding the institutions, instruments,

Course Code	Course Name	Semester	Objective	Outcome
	Issues in Indian Economy		changes of Indian economy, macroeconomic policies & their impact on Indian economy, policies and performances of Indian industries & Indian service sectors. Or	participants and operation of the money market. / Informs the students about issues of the Indian economy related to growth and structure of the Indian economy with importance of Agriculture, Industry and Service sectors.
ECO-A-DSE-5-B (2.1) / ECO-A-DSE-5-B (2.2)	DSE-B (2) Environmental Economics Or Issues in Development Economics		Learners will be able to learn about the basic issues of environmental economics, interlinkage between environment & economy, efficiency & market failure, design & implementation of environmental policies, measuring the values of environmental cost and benefits / Learners will be able to learn about the relationship between demography & development, the interconnection between land, labor & credit market, behavioral interaction between individuals & communities, the concept of environment & sustainable development and finally the perspectives of globalizations.	2. Understanding the environment and linkages with the economy; welfare effects of externalities, understanding of environmental problems, international issues with evaluation and implementation of policy decisions/ Extensive analysis of demography and development, study of factor markets and credit markets, environment, sustainable development and globalization: analysis, effects and implementation of policies.

Department of Economics: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
ECO-G-CC-1-1	Introductory Microeconomics	1	Learners will be able to identify and explain economic concepts and theories related to the behavior of economic agents.	Explains the basic concepts of economics like demand, supply, consumer behaviour, markets, equilibrium, input markets and so on.
ECO-G-CC-2-2	Introductory Macroeconomics	2	Learners will be able to identify the determinants of various macroeconomic aggregates such as output, unemployment, inflation, productivity and the major challenges associated with the measurement of these aggregates.	Explains national income accounting, equilibrium in a macroeconomic system through Keynesian and Classical models and builds macroeconomic foundations by explaining bond market, money market, inflation, international trade and balance of payments.
CO-G-CC-3-3	Issues in Economic Development and India	3	To explore diverse dimensions and measures of development, as well as the application of microeconomic analysis to issues of development in poor countries, including the study of household decisions and the analysis of institutions and norms influencing development.	Explains the meaning of economic development, various aspects and crises of developing economies with special reference to the Indian economy, alternative development strategies and the role of international organizations.
ECO-G-CC-4-04	Indian Economic Policies	4	To explore overtime impact of macroeconomic policies in Indian economy, the policies and performances of Indian agriculture & industry and finally the policies and performances of Indian foreign trade.	Narrates and evaluates the leading economic policies adopted by the GOI since independence and their impacts. It also makes an evaluation of policies and performance in agriculture, industry and foreign trade.
ECO-G-DSE-5-1A/2A	1. Money and Banking or 2. Sustainable Development	5	Learners will be able to understand the concept of banking system & money supply with reference of India, the role of financial institutions and financial markets in financial system, the types & determinations of interest rates, the central bank and the monetary policy. Or To provide introductory ideas of sustainability, the meaning of sustainable development, some issues of climate change & sustainable development and finally the theory of sustainable resource management policies in India.	1.Explains different aspects of banking system with reference to the Indian economy, financial institutions and markets, interest rate behaviour and monetary policies adopted by the GOI. 2.Deals with the meaning of sustainable development, its implementation vis-à-vis challenging global environmental problems, and evaluates sustainable resource management policies in India.
ECO-G-DSE-6-1B/2B	1. Public Finance or 2. Economic History of India (1857 – 1947)	6	To make understand about public finance (fiscal functions, tools of normative analysis, Parato efficiency, equity and social welfare, market failure, public goods and externalities, theory of product & factor taxation) or Learners will be able to learn about the basic background of colonial India and the macro trends, the status of agriculture, industry and the expansion of railways in British India.	1.Studies the need for government intervention in market, the nature of public goods, factors governing taxes and government expenditure and public debt, and gives a perspective of the fiscal system in India including fiscal federalism. 2.Chronicles the leading economic aspects of British rule in India, and analyses economic policies and their impacts during this period.

Course Code	Course Name	Semester	Objective	Outcome
ECO-G-SEC-3-1A / ECO-G-SEC-5-2A	1. Introductory Methods of Field Survey or 2. Elementary Rural Development	SEC-A (3/5)	The objective is to get ideas about economic data, the methodologies of collection of data and systematic recording and the presentation the collected data. Or To explore the basic issues of rural development, the role of rural credit & self-help group and finally critical analysis of some selected government programs (MGNREGA, Mid-day Meal, PMGSY)	1. Deals with data collection and data recording. 2. Deals with decentralized planning and participatory development, role and appraisal of Panchayati Raj, rural credit, self-help groups and critical evaluation of selected programmes of GOI.
ECO-G-SEC-4-1B / ECO-G-SEC-6-2B	1. Economic Data Analysis and Report Writing Or 2. Entrepreneurship and Development	SEC-B (4/6)	Learners will be able to learn about the methods of the representation of statistical data (tabular & graphical), the basic descriptive statistics and their role in data analysis and finally the elements of report writing. Or To explore basic issues of entrepreneurship & economic development, financial resources for new ventures of an entrepreneur, growth strategies in small business and finally the concept of sickness in small business.	1. Deals with data analysis using various means, measures of dispersion, correlation and regression. It also describes methodologies for report writing. 2. Deals with features of entrepreneurship and its linkage with economic development, strategies for developing rural entrepreneurship and small business in India.

Department of Economics: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC1	Introductory Microeconomics	1	√	√		√			√
CC2	Mathematical Methods in Economics-I		√	√					√
CC3	Introductory Macroeconomics	2	√	√		√			√
CC4	Mathematical Methods in Economics-II		√	√					√
CC5	Intermediate Microeconomics-I	3		√	√	√	√		√
CC6	Intermediate Macroeconomics-I			√	√	√	√		
CC7	Statistical Methods for Economics		√	√				√	√
CC8	Intermediate Microeconomics-II		√	√		√			√
CC9	Intermediate Macroeconomics-II	4	√	√					√
CC10	Introductory Econometrics		√	√				√	√
CC11	International Economics		√	√		√			√
CC12	Indian Economy		√	√		√	√	√	√
CC13	Public Economics	5	√	√	√	√	√		√
CC14	Development Economics		√	√	√	√	√		√
SEC 3A1	Data Analysis/Rural Development		√	√	√	√	√		√
SEC 4B2	Research Methodology/ Managerial Economics		√	√	√	√	√	√	√
DSE 5A1	Applied Econometrics/ Economic History of India (1857-1947)	6	√	√	√	√	√	√	√
DSE 5B1	Comparative Economic Development (1850-1950) / Financial Economics		√	√	√	√	√	√	√
DSE 6A2	Money and Financial Markets/ Issues in Indian Economy		√	√	√	√	√	√	√
DSE 6B2	Environmental Economics/ Issues in Development Economics		√	√	√	√	√	√	√
General									
CC1/GE1	Introductory Microeconomics	1	√	√		√			√
CC2/GE2	Introductory Macroeconomics	2	√	√					√
CC3/GE3	Issues in Economic Development and India	3	√	√		√			√
SEC 3A1/5A2	Introductory Methods of Field Survey/Elementary Rural Development		√	√	√	√	√		√
CC4/GE4	Indian Economic Policies	4	√	√					√
SEC 4B1/6B2	Economic Data Analysis and Report Writing/ Entrepreneurship and Development		√	√	√	√	√	√	√
DSE 5A1/A2	Money and Banking/ Sustainable Development	5	√	√	√	√	√	√	√
SEC 3A1/5A2	Introductory Methods of Field Survey/Elementary Rural Development		√	√	√	√	√	√	√
DSE 6B1/B2	Public Finance/ Economic History of India (1857-1947)	6	√	√	√	√	√	√	√
SEC 4B1/6B2	Economic Data Analysis and Report Writing/ Entrepreneurship and Development		√	√	√	√	√	√	√

DEPARTMENT OF EDUCATION

Program Outcome and Attainment: Honours & General – SUMMARY

- Easy access to B.Ed course
- M.A. in Education, Social work, Library Science
- School inspector
- Career counselor
- Teacher in school and general degree college and B.Ed colleges
- Official jobs
- Special educators for DIVYANG
- Virtual teaching in Distance education
- Different social work and engagement in NGOs etc.

Department of Education: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
CC 1	Introduction To Education	1	<ul style="list-style-type: none"> • To understand the meaning, nature, scope and aims of education. • To explain the factors of education and their interrelationship. • To become aware of different agencies of education that influence education. • To be acquainted with the concept of child-centricism and play-way in education 	The outcome of the course is to understand the meaning, nature, scope and aims of education.
CC 2	History of Indian Education		<ul style="list-style-type: none"> • To be acquainted with the salient features of education in India during ancient and medieval times. • To be acquainted with the development of education in British India • To be acquainted with the significant points of selected education commissions & national policy of education in independent India. 	The outcome of the course is to understand the salient features of education in India during ancient and medieval times,
CC 3	Psychological Foundation of Education	2	<ul style="list-style-type: none"> • To understand the meaning of Psychology and be acquainted with it's different aspects. • To know the patterns of different aspects of human development and relate this knowledge with education. • To be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition. 	The outcome of the course is to understand the meaning of Psychology and be acquainted with its different aspects & to be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition.
CC 4	Philosophical Foundation of Education		<ul style="list-style-type: none"> • To understand the meaning and relation of philosophy and education. • To understand the importance of philosophy in education . • To be acquainted with the Indian schools of philosophy and their impact on education. • To be acquainted with the western schools of philosophy and their impact on education . • To develop an understanding of philosophy for development of humanity. 	The outcome of the course is to understand understand the meaning and relation of philosophy and education,
CC 5	Sociological Foundation of Education	3	<ul style="list-style-type: none"> • To understand the relation between Sociology and Education . nature, and scope of Sociology of education. • To explain the concept of Social Groups and Socialization process. • To enable the students to understand the concept of Social change and Social interaction in education. • To become aware of social Communication in Education 	The outcome of the course is to understand the relation between Sociology and Education, nature, and scope of Sociology of education & become aware of social Communication in Education.
CC 6	Educational Organisation ,Management & Planning.		<ul style="list-style-type: none"> • To develop the concept of an ideal organization in educational institutions. • To know the essential functions of educational management. • To understand the different aspects of planning. 	The students will learn the concept of an ideal organization in educational institutions
CC 7	Guidance and Counselling		<ul style="list-style-type: none"> • To know the concept of guidance . • To know various types of Guidance . • To Know the basic concept of Counselling . • To find out the basic data necessary for Guidance 	The outcome of the course is to understand concept of guidance & the basic concept of Counseling.
SEC A 1	Communication Skill		<ul style="list-style-type: none"> • To understand the basic elements of Communication • To acquire Listening Skills • To acquire Speaking Skills • To acquire Reading and Writing Skills 	The outcome of the course is to understand the basic elements of communication
CC 8	Technology in Education	4	<ul style="list-style-type: none"> • To develop an understanding of educational technology . • To be acquainted with the system approach . 	The outcome of the course is understanding of educational technology, an understanding of ICT & e-learning,

Course Code	Course Name	Semester	Objective	Outcome
			<ul style="list-style-type: none"> • To develop an understanding of the use of computer in education and communication • To get acquainted with the instructional techniques and different models of teaching. • To develop an understanding of ICT & e-learning . 	
CC 9	Curriculum Studies		<ul style="list-style-type: none"> • To develop an understanding about concept, nature, types and major approaches of curriculum. • To understand the relation among curriculum, pedagogy and assessment. • To develop an understanding about curriculum development and national curriculum frame work, 2005 . • To get acquainted with content selection and selected theories in this regard . • To develop an understanding of evaluation & reform of curriculum. 	The outcome of the course is understanding about concept, nature, types and major approaches of curriculum, understanding the relation among curriculum, pedagogy and assessment, understanding the meaning of Inclusion and exclusion.
CC 10	Inclusive Education		<ul style="list-style-type: none"> • Understand the meaning of Inclusion and exclusion. • Know the types of exclusion and their causes. • Know how to bring about inclusion in different spheres 	The outcome of the course is understanding causes of exclusion and different ways of inclusion in different spheres
SEC B1	Teaching Skills		<ul style="list-style-type: none"> • To know the basic concept of Teaching. • To know the Types of Teaching . • To understand the Skills of Teaching . • To learn the Concept of Learning Design (LD) 	The students will learn the basic concept of Teaching, Concept of Learning Design (LD) & Skills of teaching.
DSE A2	Educational Thought of Great Educators		<ul style="list-style-type: none"> • To develop an understanding of educational ideas of Indian and Western Educators • To understand pedagogical concepts given by Indian and Western educational thinkers 	The outcome of the course is understanding the philosophy of life and education of Indian and western educators.
DSE B1	Teacher Education		<ul style="list-style-type: none"> • To understand the basic concept of teacher education. • To explain the historical perspective and development of teacher education in India. • To enable the students to understand the Role of the different agencies in teacher education: • To make an idea about Some Courses for preparation of teacher 	The outcome of the course is understanding the perspectives and development of teacher education
CC 11	Evaluation and Measurement in Education	5	<ul style="list-style-type: none"> • To develop understanding of the concepts of measurement and evaluation in education. • To be acquainted with the process of Evaluation. • To be acquainted with different types of measuring instruments and their uses. • To develop understanding of the concepts of validity and reliability and their importance in educational measurement. • To be acquainted with the principles of test construction. 	The outcome of the course is understanding of the concepts of measurement and evaluation in education, understanding of the concepts of validity and reliability and their importance in educational measurement,
CC 12	Statistics in Education		<ul style="list-style-type: none"> • To develop the concept of statistics and to develop skill in analysing descriptive measures. • To be acquainted with the concept of Normal Probability Curve and its uses in education. • To develop a concept of measures of relationship. • To develop the ability to organize relevant educational data and to represent educational data through graphs and to develop skill in analysing and displaying data. 	The outcome of the course is understanding concept of statistics and to develop skill in analyzing descriptive measures.
CC 13	Psychology of Adjustment	6	<ul style="list-style-type: none"> • To understand the concept of adjustment, maladjustment and some commonly found problem behaviour. • To know the multi-axial classification of mental disorders. • To be aware about different coping strategies for stressful situation. • To know the administration, scoring and interpretation of the psychological tests. 	The outcome of the course is understanding concept of adjustment, maladjustment and some commonly found problem behavior

Course Code	Course Name	Semester	Objective	Outcome
CC 14	Basic Concept of Educational Research		<ul style="list-style-type: none"> • Have a concept of educational research. • Learn about the various steps to be followed for conducting research. • Learn how to write a research proposal and review research papers. 	The outcome of the course is understanding the concept of educational research,
DSE A2	Population Education		<ul style="list-style-type: none"> • To know the concept of Population Education. • To understand Population growth and its impact and responsibilities. • To understand population education and role of school. 	The outcome of the course is understanding concept of Population Education
DSE B2	Women Education		<ul style="list-style-type: none"> • To know the historical perspectives of Women Education • To know the Policy Perspectives and Committees and Commissions on Women Education • To know the role of Indian thinkers towards Women Education • To identify major constraints of Women Education and Women Empowerment. 	The outcome of the course is understanding concept and constraints of women education and women empowerment

Department of Education: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC1/GE 1	Introduction To Education	1	<ul style="list-style-type: none"> • To understand the meaning, nature, scope and aims of education. • To explain the factors of education and their interrelationship. • To become aware of different agencies of education that influence education. • To be acquainted with the concept of child-centricism and play-way in education 	The outcome of the course is to understand the meaning, nature, scope and aims of education.
CC2/GE2	Psychological Foundation of Education	2	<ul style="list-style-type: none"> • To understand the meaning of Psychology and be acquainted with it's different aspects. • To know the patterns of different aspects of human development and relate this knowledge with education. • To be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition. 	The outcome of the course is to understand the meaning of Psychology and be acquainted with its different aspects & to be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition.
CC3/GE3	Sociological Foundation of Education	3	<ul style="list-style-type: none"> • To understand the relation between Sociology and Education . nature, and scope of Sociology of education. • To explain the concept of Social Groups and Socialization process. • To enable the students to understand the concept of Social change and Social interaction in education. • To become aware of social Communication in Education 	The outcome of the course is to understand the relation between Sociology and Education, nature, and scope of Sociology of education & become aware of social Communication in Education.
SEC A1	Communication Skill		<ul style="list-style-type: none"> • To understand the basic elements of Communication • To acquire Listening Skills • To acquire Speaking Skills • To acquire Reading and Writing Skills 	The outcome of the course is to understand the basic elements of communication
CC4/GE4	Inclusive Education	4	<ul style="list-style-type: none"> • Understand the meaning of Inclusion and exclusion. • Know the types of exclusion and their causes. • Know how to bring about inclusion in different spheres. 	The outcome of the course is understanding causes of exclusion and different ways of inclusion in different spheres
Sec B1	Teaching Skills		<ul style="list-style-type: none"> • To know the basic concept of Teaching. • To know the Types of Teaching . • To understand the Skills of Teaching . • To learn the Concept of Learning Design (LD) 	The students will learn the basic concept of Teaching, Concept of Learning Design (LD) & Skills of teaching.
DSE A2	Educational Thoughts of Great Educators	5	<ul style="list-style-type: none"> • To develop an understanding of educational ideas of Indian and Western Educators • To understand pedagogical concepts given by Indian and Western educational thinkers 	The outcome of the course is understanding the philosophy of life and education of Indian and western educators.
SEC A1	Communication Skill		<ul style="list-style-type: none"> • To understand the basic elements of Communication • To acquire Listening Skills • To acquire Speaking Skills • To acquire Reading and Writing Skills 	The outcome of the course is to understand the basic elements of communication
DSE B2	Women Education	6	<ul style="list-style-type: none"> • To know the historical perspectives of Women Education • To know the Policy Perspectives and Committees and Commissions on Women Education • To know the role of Indian thinkers towards Women Education • To identify major constraints of Women Education and Women Empowerment. • To understand the meaning, nature, scope and aims of education. 	The outcome of the course is understanding concept and constraints of women education and women empowerment
Sec B1	Teaching Skills		<ul style="list-style-type: none"> • To know the basic concept of Teaching. • To know the Types of Teaching . • To understand the Skills of Teaching . • To learn the Concept of Learning Design (LD) 	The students will learn the basic concept of Teaching, Concept of Learning Design (LD) & Skills of teaching.

Department of Education: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC 1	Introduction To Education	1	√	√	√		√		
CC 2	History Of Indian Education		√		√	√			√
CC 3	Psychological Foundation of Education	2	√	√	√	√		√	√
CC 4	Philosophical Foundation of Education		√		√	√	√		√
CC 5	Sociological Foundation of Education	3	√	√	√	√	√	√	√
CC 6	Educational Organisation, Management & Planning			√	√	√	√		
CC 7	Guidance and Counselling		√	√	√		√		√
CC 8	Technology in Education		√	√	√				√
CC 9	Curriculum Studies	4	√		√	√			√
CC 10	Inclusive Education		√	√	√	√	√	√	√
CC 11	Measurement and Evaluation In Education		√						
CC 12	Statistics in Education		√						
CC 13	Psychology of Adjustment	5	√	√	√	√	√	√	√
CC 14	Basic Concept of Educational Research		√						
SEC A1	Communication Skills		√	√	√	√			√
SEC B1	Teaching Skill		√		√		√		√
DSE A2 (V)	Educational Thoughts of Great Educators	6	√				√		
DSE A2 (VI)	Population Education		√	√	√	√	√	√	
DSE B1 (V)	Teacher Education		√		√		√		√
DSE B2 (VI)	Women Education		√			√	√		
General									
CC1/GE1	Introduction To Education	1	√		√	√			√
CC2/GE2	Psychological Foundation of Education	2	√	√	√	√	√	√	√
CC 3/GE 3	Sociological Foundation of Education	3	√	√	√	√	√	√	√
SEC A1	Communication Skills		√	√	√	√			√
CC 4/GE 4	Inclusive Education	4	√	√	√	√	√	√	√
SEC B1	Teaching Skill		√		√		√		√
DSE A2	Educational Thoughts of Great Educators	5	√				√		
SEC A1	Communication Skills		√	√	√	√			√
DSE B2	Women Education	6	√			√	√		
SEC B1	Teaching Skill		√		√		√		√

DEPARTMENT OF ENGLISH

Program Outcome and Attainment: Honours & General – SUMMARY

The various courses offered by Budge Budge College in English have the following outcomes:

1. Students emerge as well-rounded individuals and natured personalities at the end of the course ready to take on the variety of responsibilities offered by life.
2. They develop a clear understanding of the diverse contexts of British and Indian societies and are able to compare and contrast them thereby developing their world view.
3. They definitely emerge as much more proficient in English language.
4. Literature facilitates character-study and that in turn enables the students to become better observers of society. These students develop the unique capability of reading everyday characters which enables them to communicate better and more productively with other members of the society.

B.A General: LCC Components:

Under the CBCS system, it has been made compulsory for the general students to study LCC (English) for at least two semesters. In SEM 3, for LCC-1 (L1-1) students are supposed to study “Language, Variety and Stylistics” and in SEM V, for LCC-1 (L1-2), students are supposed to study “Language, Imagination & Creativity”.

For even SEM-s there are Alternative English courses too for those who opt for that, but in our college students usually alternate between the vernacular (English) and Bengali with SEM variations.

Expected Learning Outcomes:

On completion of the Courses the students will be able to –

- Acquire skill in English language as a mode of effective communication.
- Inculcate in themselves the awareness of English as the primary mode of official communication.
- Gain the knowhow about the basic tenets of formal as well as informal English writing.
- Develop personal and professional skills in English language and communication.

Department of English: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
CC1	History of English Literature	1	This subject is divided into two sections: English Literature History and Philology. The first segment would attempt to provide a comprehensive understanding of British literary history from the Old English period to the Modern Era (1970s). The following section will analyze the impact of foreign influences on the English language, as well as how great writers have modified the language through personal genius.	<ul style="list-style-type: none"> On completion of the course the students will be able to– Have a clear perception about British social and cultural history in order to comprehend its impact on British literature. Appreciate the growth of various genres in British literature and get a basic comprehension of the complex and politically charged subject of literary canon construction. Formulate a functional concept regarding particular linguistic and philological events and build a comprehensive understanding of the phonetic characteristics of the English language in both spoken and written form.
CC2	European Classical Literature		The course would focus on Greek epics (Iliad Books 1 and 2) as well as selected texts from Greek and Roman literature. The Course addresses the large presence of Classical myths, which represent an important component of Classical civilization, as vital subtexts.	<ul style="list-style-type: none"> On completion of the course the students will be able to– Develop a comprehension of ancient genres such as epic and drama in its early stages, as well as familiarity with the culture, politics, philosophy, and literary tendencies of the time. Understand literary antiquity as well as the classical models of various literary genres such as Epic, Comedy, Tragedy, Satire, and Lyric Poetry, and respond to literary texts in relation to their socio-cultural context.
AECC1	Communicative English		This Course aims at developing and strengthening the basic grammatical concepts of the students studying with honors in English.	<ul style="list-style-type: none"> On completion of the Course the students will be able to- Develop an in-depth knowledge of the specific grammatical items. Apply these in their own usages. Write grammatically correct sentences.
CC 3	Indian Writing in English:	2	The Course is intended to provide an overview of Indian English Literature through the use of selected works from various genres. The first half of the Course consists of poems written in English in the Indian subcontinent from the nineteenth century to the present day. Students will also be taught the conventions of the novella genre evolved in Europe, followed by a comparative analysis with reference to the book provided in the syllabus. The course would also aim to familiarize students with advanced drama reading and interpretation.	<ul style="list-style-type: none"> On completion of the Course the students will be able to- Formulate some form of comprehensive understanding of how key representative genres have grown to establish an inclusive rubric of 'Indian writing in English'. Develop an awareness of this specific branch of English literature and its contemporary relevance.
CC 4	British Poetry and Drama From 14 th to 17 th Century		The poems and plays chosen for this Course are intended to familiarize students with the evolution of British poetry and drama by presenting them to representative poets and playwrights from different poetic conventions and literary centuries. They would be introduced to the complex world of Shakespearean literature as well as the wonderful Elizabethan dramatic tradition.	<ul style="list-style-type: none"> On completion of the Course the students will be able to- Develop a deeper knowledge of British literature's more difficult and canonical texts. Understand how European consciousness has grown via outstanding texts and the men and women who wrote them. Recognize that making meaning of texts is never an isolated, academic endeavor; it can only make sense when such works are studied in relation to the time, society, environment, history, people, and their traditions.

Course Code	Course Name	Semester	Objective	Outcome
CC5	American Literature	3	The course will include poems, theater, novels, and short stories drawn from the vast corpus of American literature. The authors included for the course vary from early nineteenth-century American writers to modern writers.	<ul style="list-style-type: none"> On completion of the Course the students will be able to- Develop their grasp of the evolution of American literature over time. Formulate an idea about American Literature as a distinct discourse with its own characteristics and paradigm; - as a manifestation of a unique 'Americanness' that distinguishes it. Appreciate the newly-introduced gamut of 'popular literature' and its relatively 'non- literary' subgenres and will produce consciousness about the dynamic between 'popularity' and 'literary qualities'. Understand that even anything as simple and reader-friendly as a detective novel or a children's rhyme can be subjected to rigorous theoretical examination and interpretation. Improve their business communication abilities.
CC 6	Popular Literature		This paper incorporates graphic novels, detective novels and nonsense genre into the core of English Literature. Hence this genre is ideally aimed at making students more accommodative as far as their traditional notion of canonical literature is concerned.	
CC 7	British Poetry and Drama		Representative texts from the 17th and Neo-Classical periods have been suggested and included, as well as the period's social and intellectual context.	
SECA2	Business Communication		The course will seek to help students of English literature improve certain abilities. Students will learn how to write an email, file a report, and take meeting minutes.	
CC 8	18 th Century British Literature	4	The course includes some of the most representative works of 18th century British literature. It includes selections from the poetry, drama, and prose genres. The course will expose students to the defining characteristics of the era, the tone of the writers, and the main cultural and intellectual advances of the time.	<ul style="list-style-type: none"> On completion of the Course the students will be able to- Understand the continuities and correspondences between the three successive periods of English literary history. Critically appreciate the themes and styles of the literary texts that form the courses. Further develop their interests for other texts and writers from these periods which do not feature in either of these three Courses. Develop the skills of Academic Writing.
CC9	British Romantic Literature		This course is designed to help young learners grasp the concept of literary 'Romanticism' and its connections to contemporary social and cultural atmospheres in England, as well as how these differ from those of the prior time - the Neoclassical Age. The students' interest in Romantic Literature will be piqued by an overview of British Romanticism at the intersection of art, culture, and philosophy through selected literary texts. The course includes some of the major poems as well as fictional and nonfictional prose items of the period.	
CC10	Nineteenth Century British Literature		The course will introduce students to one of history's most significant dilemmas, referred colloquially as the "Victorian dilemma." With a brief review of the period's new cultural and social developments, the course will analyze some of the Era's most notable literary works, including selections from poetry and prose.	
SEC B2	Academic Writing and Composition		The essential norms and principles of academic writing will be covered in this Course module. It will also take into account literary skills such as paraphrasing, writing summaries, and critical appreciation.	

Course Code	Course Name	Semester	Objective	Outcome
CC11	Women's Writing	5	These theory-based and literary texts aim to hone the skills of contextual clarity amongst students aiming to sensitize them towards the unique socio-cultural peculiarities of the time.	<ul style="list-style-type: none"> On completion of the Course the students will be able to – Appreciate the position of women in family and society.
CC12	Early Twentieth Century British Literature		Early British Modernist Literature as manifested through novels, poem and drama are aimed at creating social awareness amongst students regarding the first quarter of the twentieth century, a very vulnerable time in world history etched by world wars.	<ul style="list-style-type: none"> Analyze the nuances of modernist literatures.
DSE A1	Modern Indian Writing in English Translation		This paper provides students with much needed exposure to seminal Indian regional texts in English translation. Students are supposed to develop an awareness of the socio-cultural contextual reality of their own country across space and time.	<ul style="list-style-type: none"> Differentiate between trends of early modern literatures and those written before that. Explain the figures of speech and prosody of a given literary text. Develop a critical bent of mind which is necessary for reading, understanding and evaluating any text.
DSE B1	Literary types, Rhetoric and Prosody		The Course will help students comprehend the fundamental aspects of Literary types, Rhetoric and Prosody. Hands on training in rhetorical and prosodic analyses are targeted to develop cognitive and affective abilities of the students.	<ul style="list-style-type: none">
CC13	Modern European Drama	6	Backed by the knowledge of literary generic theory, the students are expected to understand a few seminal works in the dramatic genre vis-a-vis their contexts of creation. It is expected that the students will develop an understanding of Modern European socio-cultural trends.	<ul style="list-style-type: none"> On completion of the Courses the students will be able to – Relate the actual experiences of their lives with the dramatic representation through texts. Negotiate the odds of life in a better way.
CC 14	Post-Colonial Literatures		With the help of some literary works produced by African, Indian and Latin American authors. The Course highlights the legacy of colonial culture that continues influencing the everydayness of the people from these countries. The Course will also deal with several entanglements connected with the people and their cultures in post-colonial worlds.	<ul style="list-style-type: none"> Explain the politics and discourses of colonial culture. Understand the trauma of partition and become a part of collective memory.
DSE A3	Partition Literature		The texts included in this paper are supposed to generate an awareness amongst students about a decisive historic event that decided the fate of India on the eve of independence.	<ul style="list-style-type: none"> Develop a fondness for autobiography as a distinct genre and appreciate the aesthetics of autobiographical literature.
DSE B3	Autobiography		This paper dealing with autobiographies of prominent Indian politician, writers and performer is aimed at developing an understanding amongst the students about the personal lives of these luminaries. This paper is aimed at teaching them the art of resilience and constant learning.	

Department of English: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC 1	History of English Literature	1	√	√	√		√	√	
CC 2	European Classical Literature		√	√	√				√
AECC 1	Communicative English		√	√	√	√	√	√	
CC 3	Indian Writing in English	2	√	√	√				√
CC 4	British Poetry and Drama From 14 th to 17 th Century		√	√	√				√
CC 5	American Literature	3	√	√	√				√
CC 6	Popular Literature		√	√	√				
CC 7	British Poetry and Drama		√	√	√				√
SEC A2	Business Communication		√	√	√	√	√	√	
CC 8	18 th Century British Literature	4	√	√	√				√
CC 9	British Romantic Literature		√	√	√				√
CC 10	Nineteenth Century British Literature		√	√	√				√
SEC B2	Academic Writing and Composition		√	√	√	√		√	
CC 11	Women’s Writing	5	√	√	√				√
CC 12	Early Twentieth Century British Lssiterature		√	√	√				√
DSE A1	Modern Indian Writing in English Translation		√	√	√				√
DSE B1	Literary types, Rhetoric and Prosody		√	√	√				√
CC 13	Modern European Drama	6	√	√	√				√
CC 14	Post-Colonial Literatures		√	√	√				√
DSE A3	Partition Literature		√	√	√				√
DSE B3	Autobiography		√	√	√				
General									
LCC-1 (L1-1)	Language, Variety and Stylistics	3		√	√				√
LCC-1 (L1-2)	Language, Imagination & Creativity	5	√		√		√		√

DEPARTMENT OF FOOD AND NUTRITION

Program Outcome and Attainment: Honours – SUMMARY

Nutrition is mainly concerned with dietary conditions and issues relating to food. It's a diverse discipline with foundations in chemistry, anatomy, and the social sciences. It also involves the study of food-related habits and social influences. Nutrition is a discipline that's constantly evolving. It is high in demand as nutritionists can play an essential role in encouraging individuals to eat healthy foods, thereby improving their overall wellbeing.

Studying nutrition can provide a lot of information about the science of food, since people are becoming more health-conscious, learning nutrition may help you understand these patterns and distinguish good from bad. It will help to educate people and inspire new ways of thought, as well as spark critical debates and help societies become healthier. It will provide an expansion to expertise in science and research abilities. Exciting professional Career Options such as chefs, Dietician and nutritionist, Food service manager, Health educator, Private consultant, Diet coach, public health nutritionist, Clinical nutritionist and Sports nutritionist. Nutrition can bring forth a wide range of career opportunities. Also, with a degree and, eventually, a career in nutrition, may have a significant impact on people's lives.

Department of Food and Nutrition: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
CC1	Basic Food Science	1	To learn basic concepts of micro and macronutrients.	The students will be able to discuss the definition, classification, structure and properties of macronutrients such as carbohydrates, proteins and lipids. This course will help the students to acquire vivid knowledge about the method of digestion, absorption, metabolism of these macronutrients in the human body and their recommended requirement to maintain a healthy life
CC2	Human Physiology-I		To understand the physiology of different systems in the body.	Human physiology covers the major portion of the organs that we need to stay alive including heart function and digestive system. Students after learning all these can easily maintain a better life style and the practical aspect will help them to ensure better health through regular check-ups like determination of pulse rate, blood pressure etc
CC3	Basic Food Science-II	2	To study the significance of micronutrients, dietary fibre and water and the factors that affect the bio-availability of minerals and vitamins in the human body	Through this course, the students will be able to delineate the significance of micronutrients, dietary fibre and water. They can discuss the factors that affect the bio-availability of minerals and vitamins in the human body and the methods to improve their bioavailability. The students will also gain knowledge regarding requirements, sources, clinical manifestations of deficient and excess intake of these nutrients. This course will enable the students to select the food they should incorporate in their daily diet to prevent the deficiency disorders of micronutrients.
CC4	Human Physiology-II		To learn the basic concept and knowledge of structure and functioning of different systems in body	From this core course student will be able to learn the basic concept and knowledge of structure and functioning of different systems in body and they can also understand the integrated aspect of functioning of the individual and all the systems in totality in the body.
CC5	Human Nutrition I	3	To develop the basic and thorough understanding of nutrition, RDA guidelines and importance of energy requirement.	It helps to provide a brief idea on somatic, physical and mental growth and development process during infancy to adulthood. Some practical aspects such as using of growth charts may be communicated to the community to avoid growth faltering.
CC 6	Community Nutrition		Students will be able to interpret and apply nutrition related concepts to evaluate and improve the nutritional health status of communities	The students will be able to use anthropometric, biochemical, clinical and dietary methods for the assessment of nutritional status of the community. Various assessment techniques will help to find out the actual status thus community intervention can be done based on specific needs assessment. Nutrition intervention programs helps in the better understanding of the functioning of the government strategy in health care system and for strengthening better community health.
CC 7	Food Commodities		To gather knowledge regarding all the food groups and the changes take place during different methods of cooking of foods	After the completion of course, the students will gain knowledge about the structure of different foods such as cereals, pulses, eggs, flesh products, dairy products etc. and acquire skills to process and store these foods. They will be able to identify which is the better method of cooking to reduce loss of nutrients of the respective food. This course will help them to find out several types of sugars, fats and oils, food adjuncts, beverages available in the market, their role in cookery and their impact on our health; that will help to incorporate the better food ingredients in the healthy and nutritious diet.
SEC-A1	Food Service Management		To analyze foodservice operations using the foodservice systems approach and thus paving the ways to develop a profitable business in form of catering institution	The course structure deals with appreciating customers requirements related to food service, the structural features and layout of the kitchen in a commercial setup to cater the needs of the customers through the fancy way of presentation, servicing styles, menus, safety, personnel management, training and induction, and many more related aspects to provide satisfaction to the customers.
SEC B1	Nutrition And Health Education	4	This paper will help the students to develop the concept, and importance of nutrition and health education in the community.	They can apply the knowledge in planning health and nutrition education. Various communication processes helps in effective delivering of the message in the community. It also helps to evaluate nutrition and health education programs.

Course Code	Course Name	Semester	Objective	Outcome
CC 8	Human Nutrition II		To study the changes, nutritional requirement, common problems, complications during different stages of life	The students will be able to know the changes, nutritional requirement, common problems, and complications during different stages of life especially in pregnancy, lactation, infancy, toddlers, children and adolescents. It also deals with the nutritional management to achieve proper health and minimizes the complications that affect health. So this core course has a practical application for all human being in general.
CC 9	Diet Therapy I		To understand the basic concept of diet therapy and its implication	After studying this paper, the basic concept of diet therapy will be clear and it will provide knowledge for understanding the role of food and nutrients in health and disease. It helps to utilize the Nutrition Care Process to deliver state-of-the-art, safe and effective nutrition care to the patients. Students will be able to calculate diets for health conditions addressed by health promotion/disease prevention activities and can interpret and apply nutrition concepts to evaluate and improve the nutritional health of individuals with medical conditions such as gastritis, peptic ulcer, diarrhoea, steatorrhoea, diverticular disease, inflammatory bowel disease, ulcerative colitis, flatulence, constipation, Irritable Bowel Syndrome, Viral Hepatitis, Cirrhosis of liver, Cholecystitis and Cholelithiasis etc. Moreover, it will help to interpret the medical terminology and laboratory parameters relating to nutrition. This paper brings new avenues for careers like dieticians and nutritionists for the society
CC10	Nutritional Biochemistry-I		To learn the various biochemical pathways associated with our body system and their interactions.	It helps to understand all the metabolic pathways, role of various enzymes, nutrients that take part in the proper functioning and utilization of these nutrients in our body.
CC-11	Diet Therapy- II	5	To understand the basic concept of dietary modification and its implication	After the completion of course, the students will gain knowledge on the etiological factors and complications, assessment parameters and dietary modifications in obesity and underweight. They will understand the concept, purpose and principles of diet therapy, types, biochemical changes, diagnostic tests, glycemic index, acute and chronic complications and dietary management of diabetes mellitus. Students will enumerate on the aetiology, complications and dietary modifications of various cardiovascular diseases and kidney diseases.
CC12	Nutritional Biochemistry-II		To learn the various biochemical pathways associated with our body system and their interactions	On the other hand, the Biochemistry related core course comprises of important physio-chemical properties of human bodies with central dogma to vitamins. After learning this syllabus, students can easily grasp the chemical processes going on within our body continuously to fulfil the basic processing of food in our body.
DSE A1	Public Health		To understand the common health related problems in the community	This paper is engaged in advocacy on issues that affect public health such as communicable and infective diseases and the methods of control. Immunization schedule, its importance has also been incorporated. The epidemiological aspects to disease frequency and magnitude are explained for practical experience. Issues like waste and sewage management, vital statistics, detection of food borne disease out-break has also been taken up for better understanding of various diseases which needs proper management
DSE-B1	Food Safety and Quality Control		To explain the application and importance of food safety and quality control system.	At the end of the course, they will develop skills to enumerate the factors contributing to food contamination, identify the hazard of the food chain to ensure food safety and evaluate the physical, chemical and biological quality of food samples. This course will help them to list the critical control point, limit and quality control measures in food chain. The students will illustrate the importance of different national and international food quality standards.

Course Code	Course Name	Semester	Objective	Outcome
CC-13	Food Microbiology	6	To study the importance of micro-organisms	From this core course student can learn the basic principles of bacteriology, virology, mycology, and parasitology including the nature of pathogenic microorganisms, pathogenesis, laboratory diagnosis, transmission, prevention and control of diseases common in our country.
CC14	Food Preservation		After the completion of course, the students will be able to comprehend, compare and analyze the different food preservation process	They will also learn new modern approaches for food preservation. They will know the methods of safety used in storage and preservation of different food products and acquire basic skills to preserve food retaining the nutritive value of the ingredients and reducing the waste of foods. The students can produce several preserved products such as Jam, Jelly, Marmalade, Sauces, Pickles, Squashes, Syrups and understand their nutritional significance. This course will enable them to delineate different food standards used for preserved food products to prevent adulteration.
DSE- A-4	Geriatric Nutrition		Through this course, it is expected that the students will be able to understand the importance of adequate, well-balanced and nutrient-dense diet for elderly persons	The students will be benefited by gaining knowledge regarding several nutritional status assessment methods. They will enumerate the physical, psychological, biochemical, social and behavioural changes take place during this stage of life and interpret the impact of these changes on their dietary habits and nutritional and health status. The course will help them to plan the suitable diet according to the nutritive demand posed by these changes and different chronic diseases.
DSE B3	Food Fermentation		The objective is to develop a student's understanding of the chemical process of fermentation in food products and food processing.	These skills help to develop an insight of the basic fermentation process used in food preservation, the various benefits of fermentations within the food industry. The students will try to develop some basic food items such as yogurt curd and vegetables based pickles and also some international fermented products including miso, natto, sauerkraut, kimchi and many more to add to the existing list.

Department of Food and Nutrition: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC1	Basic Food Science	1	✓	✓	✓	✓	✓	✓	✓
CC2	Human Physiology-I		✓	✓	✓	✓			✓
CC3	Basic Food Science-II	2	✓	✓	✓	✓	✓	✓	✓
CC4	Human Physiology-II		✓	✓	✓	✓			✓
CC5	Human Nutrition I	3	✓	✓	✓	✓	✓	✓	✓
CC 6	Community Nutrition		✓	✓	✓	✓	✓	✓	✓
CC 7	Food Commodities		✓	✓	✓	✓		✓	✓
SEC-A1	Food Service Management		✓	✓	✓	✓	✓		✓
SEC B1	Nutrition and Health Education	4	✓	✓	✓	✓	✓	✓	✓
CC 8	Human Nutrition II		✓	✓	✓	✓	✓	✓	✓
CC 9	Diet Therapy- I		✓	✓	✓	✓	✓	✓	✓
CC10	Nutritional Biochemistry-I		✓	✓	✓	✓			✓
CC-11	Diet Therapy-II	5	✓	✓	✓	✓	✓	✓	✓
CC12	Nutritional Biochemistry-II		✓	✓	✓	✓			✓
DSE A1	Public Health		✓	✓	✓	✓	✓	✓	✓
DSE-B1	Food Safety and Quality Control		✓	✓	✓	✓	✓	✓	✓
CC-13	Food Microbiology	6	✓	✓	✓	✓	✓	✓	✓
CC14	Food Preservation		✓	✓	✓	✓	✓	✓	✓
DSE- A-4	Geriatric Nutrition		✓	✓	✓	✓	✓		✓
DSE B3	Food Fermentation		✓	✓	✓	✓	✓	✓	✓

DEPARTMENT OF GEOGRAPHY

Program Outcome and Attainment: Honours & General – SUMMARY

Program and Course Objectives and Outcome

- Students pursuing Geography Honours are provided theoretical knowledge, practical hands-on training, and field-based direct research experience. They are provided with insights regarding the applied aspects of the various topics to enable them to have a comprehensive knowledge and engage in public policy.
- Knowledge regarding diverse topics ranging from analysis of space, man-nature interaction and cartography which are the essence of Geography to analysis of physical-cultural-economic-demographic landscape are imparted. In addition, the use of spatial statistics, remote sensing, GIS and GPS as tools for analysis of contemporary Geographical avenues and problems like regional planning, climate change and hazard management are taught exhaustively in order for them to address contemporary developmental problems.
- They are also groomed in Geographical research to enable them to pursue academic line in future and strengthen their Geographical Philosophical base.
- The students are made aware of the need to understand the multi and transdisciplinary nature of Geography in order to effectively collaborate, which is essential for engaging in public policy.
- They pursue varied avenues for higher education after undertaking Geography Honours e.g. Post-graduate, B.Ed., Diploma, Management, Rural and Urban Development and Planning, Remote Sensing and GIS to mention a few.
- Employment avenues that can be explored after undertaking this course e.g. teaching, academics, civil service, civil society and non-profit organisations working on developmental or environmental planning, Remote Sensing and GIS to mention a few.

Program and Course Attainment

- In order to monitor the delivery and attainment of the program and course specific outcomes, departmental meetings discuss these at the time of allocation of syllabus and students' orientation.
- Students' progress is assessed using regular practical assignments and short conceptual question answer sessions.
- At the end of each academic session, interaction is undertaken with the students to ascertain their satisfaction in attaining the course specific outcomes.
- The marks and results of students is monitored and feedback is provided to them to assess and improve the outcome.
- In addition, information regarding progression of students into diverse avenues of higher education e.g. Remote Sensing and GIS, Rural Development, Academics and job life are also maintained by Geography department as far as practicable.

Department of Geography: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
GEO-A-CC-1-01	Geotectonics and Geomorphology	1	endogenetic and exogenetic forces and landscape evolution coupled with role of humans in the entire dynamics. Use of topographical maps and rocks and minerals identification to understand the above dynamics	man-nature interrelationships and interplay of endogenetic and exogenetic forces
GEO-A-CC-1-02	Cartographic Techniques		map-making and cartographic techniques to understand the measurement and of Earth, a three-dimensional Geoid. Use of cartograms, scales, projections and thematic maps to understand the Earth and its attributes - physical and human visually represented	Earth's geodesy and its measurement and visual representation
GEO-A-CC-2-03	Human Geography	2	scope of human Geography, evolution of society, demographics and settlement evolution and cultural landscape. Use of cartographic and thematic techniques the themes appositely	interaction of physical-cultural-economic landscape
GEO-A-CC-2-04	Cartograms, Thematic Mapping and Surveying		nuances of map-making, geology-geomorphological interaction and measurement and geodesy	surveying, map-making in varied forms from geological to weather phenomenon and geodesy
GEO-A-CC-3-05	Climatology	3	elements of weather and climate including interplay of upper and lower atmospheric interactions and climatic and weather hazards	Enlighten students towards understanding of interaction between upper and lower atmospheric conditions and various weather elements
GEO-A-CC-3-06	Hydrology and Oceanography		conception, dynamics and conservation of water flow - surface, groundwater and ocean water	the nexus and interaction of surface, groundwater, ocean and atmospheric systems
GEO-A-CC-3-07	Statistical Methods in geography		various statistical techniques and methods in Geographical Studies	the application of statistics especially spatial statistics to understand Geographical phenomenon
GEO-A-SEC-A-3-01	Coastal Management		coastal morpho dynamics and the degradation of coastal areas, measures to management and prevent and mitigate it	coastal management measures - the need for it and its avenues especially in contemporary era of increasing population density, excessive water use and climate change
GEO-A-CC-4-08	Economic Geography	4	various sectors of economy from a Geographical standpoint, locational factors and understand contemporary processes of globalisation and improved transport communication	how economic and Geographical spaces are intertwined and how contemporary globalisation processes and transport networks are resulting in global-local impacts spatially.
GEO-A-CC-4-09	Regional Planning and Development		principles and theories of balanced regional development and role of regional planning in that context	the need and avenues for regional planning especially in a diverse country like India and importance and application of concepts of human development and environment development
GEO-A-CC-4-10	Soil and Biogeography		soil system - its physical, chemical and biological characteristics and the Biosphere and its processes and humans impinge on both lithosphere and biosphere	the elements of lithosphere and biosphere and understand soil-plant-water relationship and understand the measures needed to conserve the Geosphere and biodiversity and attain sustainable development
GEO-A-SEC-B-4-03	Rural Development		elements and theories of rural development and various programs adopted for its attainment	importance of rural development in India which is primarily rural and enable them to understand that rural development has to an integral part of planning process in India

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
GEO-A-CC-5-11	Research Methodology and Fieldwork	5	elements of Geographical research from conception, research design to fieldwork and report writing with hands on experience in the field through field study	the basic tenets of a good Geographical research and fieldwork to improve contemporary knowledge base and assist in planning
GEO-A-CC-5-12	Remote Sensing, GIS and GNSS		basics and application of remote sensing, GIS, GNSS and GPS especially for landuse and landcover mapping	the importance and applicability of Remote sensing, GIS and GPS in applied Geographical research and solving real world problems and planning by combining spatial and aspatial data
GEO-A-DSE-A-5-02	Climate Change: Vulnerability and Adaptations		nature of climate change at all scales: global to local	the impact of climate change, vulnerability issues and adaptations required in contemporary era
GEO-A-DSE-B-5-03	Cultural and Settlement Geography		cultural landscape and cultural diffusion and differentiation and assimilation and the dynamics of rural and urban settlement systems and their interplay with each other	nexus of physical and cultural landscape and the need for a wholistic approach for planning
GEO-A-CC-5-13	Evolution of Geographical Thought	6	evolution of Geographical thought from pre-modern to contemporary post-modern post structural and critical thinking era especially through group projects	how the various conceptions of Geographical thought have evolved over time in conjunction with socio-cultural-political-technological-economic development and how they in turn are shaping human landscape and behavioural patterns and relative and relational space. It also acts as a team building exercise
GEO-A-CC-5-14	Hazard Management		factors, vulnerability, consequences and management of various hazards in India and West Bengal and how to use visual and statistical techniques to understand them	the mitigation and management of hazard through learning to prepare group hazard management reports for some specific hazards
GEO-A-DSE-A-6-04	Resource Geography		varied forms of resources and its appraisal, estimation, crisis, utilization and sustainable management and development focussing on contemporary problems and solutions like energy crisis and resource sharing	the tangible and intangible nature of resources, the need and process to estimate, analyse changes in vegetation, water bodies and solution of achieve sustainable development through resource sharing
GEO-A-DSE-B-6-08	Geography of India		interrelationship between physical, human, economic, social and cultural spaces and diversity & developmental levels in India and West Bengal	the contemporary interplay of economic-social-cultural and physical space in India focussing on the engines of development in this era like IT sector in tandem with sustainable development

Department of Geography: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
GEO-G-CC-1-01	Physical Geography	1	endogenetic and exogenetic forces operating on the Earth and within it	natural processes and the interplay between lithosphere, geology and hydrosphere
GEO-G-CC-2-02	Environmental Geography	2	elements of weather, climate, soil and biosphere and environmental problems	interrelationship between soil-water-climate-plant and the concept of climate change and conservation of biodiversity and environmental management
GEO-G-CC-3-03	Human Geography	3	economic and cultural and social landscape in India e.g. through the study of race, ethnicity, cultural diffusion, globalisation	economic, cultural and social processes operating in contemporary times and the current socio-spatial organisations
GEO-G-SEC-A-3/5-01	Coastal Management	3/5	coastal morpho dynamics and the degradation of coastal areas, measures to management and prevent and mitigate it	coastal management measures - the need for it and its avenues especially in contemporary era of increasing population density, excessive water use and climate change
GEO-G-CC-4-04	Cartography	4	map-making and cartographic techniques to understand the measurement and of Earth, a three-dimensional Geoid. Use of cartograms, scales, projections, remote sensing and thematic maps to understand the Earth and its attributes - physical and human visually represented	Earth's geodesy and its measurement and visual representation
GEO-G-SEC-B-4/6-03	Rural Development	4/6	elements and theories of rural development and various programs adopted for its attainment	importance of rural development in India which is primarily rural and enable them to understand that rural development has to an integral part of planning process in India
GEO-G-DSE-A-5-01	Regional Development	5	principles and theories of balanced regional development and role of regional planning in that context	the need and avenues for regional planning especially in a diverse country like India and importance and application of concepts of human development and environment development
GEO-G-DSE-B-6-04	Population Geography	6	patterns, processes, theories of population, demographic variables and composition and contemporary population problems of declining sex ratio, ageing, etc	the demographic dynamics and the contemporary population problems like declining sex ratio and ageing and strategies to overcome them

Department of Geography: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
GEO-A-CC-1-01	Geotectonics and Geomorphology	1	√					√	√
GEO-A-CC-1-02	Cartographic Techniques		√			√	√		√
GEO-A-CC-2-03	Human Geography	2	√	√	√	√		√	√
GEO-A-CC-2-04	Cartograms, Thematic Mapping and Surveying		√			√	√		√
GEO-A-CC-3-05	Climatology	3	√	√	√			√	√
GEO-A-CC-3-06	Hydrology and Oceanography		√	√	√			√	√
GEO-A-CC-3-07	Statistical Methods in geography		√			√	√		√
GEO-A-SEC-A-3-01	Coastal Management		√	√	√	√	√	√	√
GEO-A-CC-4-08	Economic Geography	4	√	√	√	√	√		√
GEO-A-CC-4-09	Regional Planning and Development		√	√	√	√	√	√	√
GEO-A-CC-4-10	Soil and Biogeography		√					√	√
GEO-A-SEC-B-4-03	Rural Development		√	√	√	√	√	√	√
GEO-A-CC-5-11	Research Methodology and Fieldwork	5	√	√	√	√	√	√	√
GEO-A-CC-5-12	Remote Sensing, GIS and GNSS		√			√	√	√	√
GEO-A-DSE-A-5-02	Climate Change: Vulnerability and Adaptations		√	√	√	√		√	√
GEO-A-DSE-B-5-03	Cultural and Settlement Geography		√	√	√	√			√
GEO-A-CC-5-13	Evolution of Geographical Thought	6	√	√	√	√	√	√	√
GEO-A-CC-5-14	Hazard Management		√	√	√	√	√	√	√
GEO-A-DSE-A-6-04	Resource Geography		√	√	√	√	√	√	√
GEO-A-DSE-B-6-08	Geography of India		√	√		√		√	√
General									
GEO-G-CC-1-01	Physical Geography	1	√					√	√
GEO-G-CC-2-02	Environmental Geography	2	√	√	√	√		√	√
GEO-G-CC-3-03	Human Geography	3	√	√	√	√		√	√
GEO-G-SEC-A-3/5-01	Coastal Management	3/5	√	√	√	√	√	√	√
GEO-G-CC-4-04	Cartography	4	√			√	√		√
GEO-G-SEC-B-4/6-03	Rural Development	4/6	√	√	√	√	√	√	√
GEO-G-DSE-A-5-01	Regional Development	5	√	√	√	√	√	√	√
GEO-G-DSE-B-6-04	Population Geography	6	√	√	√	√	√		√

DEPARTMENT OF HISTORY

Program Outcome and Attainment: Honours & General – SUMMARY

Honours

- Elementary concept of chronology of the historical periods.
- Development of historical perceptions on Indian and World History.
- Clear understanding of the basic themes, concepts and scope of history.
- Critically recognize various aspects of history such as social, political, economic and cultural histories.
- Development of analytical skilling writing and discussion.
- Prepare for various competitive examinations as well as for Master degree program.

General

- Concept about the ancient Indian culture and our heritage.
- Concept about the early medieval Indian history.
- Concept about the medieval Indian history.
- Concept about the regional kingdoms in India, establishment of the colonial rule and the subsequent freedom struggle in India.
- Concept about the political history of Modern Europe.
- Concept about the socio-economic patterns and regional variations of pre capitalist Europe.

Department of History: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
CC-1	History of India (Up to c. 300 BCE)	1	To build concept about the socio-economic, political and cultural patterns of the earliest period of human civilizations which developed in India	To build concept about the socio-economic, political and cultural patterns of the earliest period of human civilizations which developed in India
CC-2	Social Formations and Cultural Patterns of The Ancient World		It focuses on building conceptual knowledge about the Socio-cultural patterns of the ancient world other than India	It focuses on building conceptual knowledge about the Socio-cultural patterns of the ancient world other than India
CC-3	History of India (c.300 BCE- c. 750 BCE.)	2	To built concept on socio-political- economic and cultural background of our country	To built concept on socio-political- economic and cultural background of our country
CC-4	Social Formation and Cultural Patterns of the Medieval World		It focus to build conceptual knowledge about the socio cultural patterns of the medieval world	It focus to build conceptual knowledge about the socio cultural patterns of the medieval world
CC-5	History of India (CE750-1206)	3	To built up the concept about early medieval period and an overall elementary knowledge about the society, political structure and culture of this period	To built up the concept about early medieval period and an overall elementary knowledge about the society, political structure and culture of this period
CC-6	Rise of Modern West I		Concept building on the transformation of European world from the feudal structure to the Pre-capitalism	Concept building on the transformation of European world from the feudal structure to the Pre-capitalism
CC-7	History of India (CE1206-1526)		To build concept on the socio-politico-economic and cultural pattern and regional variations of the Sultanate period	To build concept on the socio-politico-economic and cultural pattern and regional variations of the Sultanate period
SEC A1	Museums and Archives		Concept making on conservation of historical sources. Visits to the museums and archives provide the students with practical knowledge.	Concept making on conservation of historical sources. Visits to the museums and archives provide the
CC-8	Rise of the Modern West II	4	Concept building on the transformation of European world from the early commercial capitalism to the Industrial capitalism	Concept building on the transformation of European world from the early commercial capitalism to the Industrial capitalism
CC-9	History of India (CE1526-1605)		To build conception the socio-politico-economic and cultural pattern and regional variations of the early Mughal period	To build conception the socio-politico-economic and cultural pattern and regional variations of the early Mughal period
CC-10	History of India (CE1605-1750s)		To build conception the socio-politico-economic and cultural pattern and regional variations of the Late Mughal period	To build conception the socio-politico-economic and cultural pattern and regional variations of the Late Mughal period
SEC B2	Art Appreciation		Concept building on the Indian art history. Visits to the architectural sites are integral part of this course which provide the students with practical knowledge.	Concept building on the Indian art history. Visits to the architectural sites are integral part of this course which provide the students with practical knowledge.
CC-11	History of the Modern Europe	5	Detailed study on the political and diplomatic history of the world up to the WWII	Detailed study on the political and diplomatic history of the world up to the WWII
CC-12	History of India (CE.1750s-1857)		Detailed study on the political and socio-cultural-economic history of the early colonial India.	Detailed study on the political and socio-cultural-economic history of the early colonial India.
DSE A1	History of Bengal (CE. 1757- 1905)		Elaborate study on the political and socio-cultural-economic history of the early colonial Bengal.	Elaborate study on the political and socio-cultural-economic history of the early colonial Bengal.
DSE B1	History of Modern East-Asia I		Elaborate study on the political and diplomatic history of modern China	Elaborate study on the political and diplomatic history of modern China
CC-13	History of India (CE. 1857-1964)	6	Elaborate study on the political and socio-cultural-economic history of the British India.	Elaborate study on the political and socio-cultural-economic history of the British India.

Course Code	Course Name	Semester	Objective	Outcome
CC-14	History of the World Politics		Concept making on the political and diplomatic relations of the post WW world.	Concept making on the political and diplomatic relations of the post WW world.
DSE A3	History of Bengal (CE.1905-1947)		Concept making on the political and socio-cultural-economic history of the colonial Bengal	Concept making on the political and socio-cultural-economic history of the colonial Bengal
DSE B3	History of Modern East Asia II		Build conceptual knowledge on the Socio-politico-economic history of modern Japan	Build conceptual knowledge on the Socio-politico-economic history of modern Japan

Department of History: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC-1/GE-1	History of India up to 300CE	1	It is a very vital course which creates elementary concept about the ancient Indian culture and our heritage.	It is a very vital course which creates elementary concept about the ancient Indian culture and our heritage.
CC-2/GE-2	History of India (CE300-1206)	2	This particular course creates elementary concept about the early medieval Indian history	This particular course creates elementary concept about the early medieval Indian history
CC-3/GE-3	History of India (CE1206-1707)	3	This a very important course which creates elementary concept about the medieval Indian history	This a very important course which creates elementary concept about the medieval Indian history
SEC A1	Historical Tourism	3/5	To build elementary skill of conducting historical place visit, writing place visit report and to transmit basic concept about heritage tourism.	To build concept about the historical tourism in India.
CC-4/GE-4	History of India (CE 1707-1950)	4	to transmit elementary concept about the regional kingdoms in India, establishment of the colonial rule and the subsequent freedom struggle in India	to transmit elementary concept about the regional kingdoms in India, establishment of the colonial rule and the subsequent freedom struggle in India
SEC B1	Archives and Museums in India	4/6	This particular deals with the institution which documents the materials of the past. It deals with the various archives and Museums.	To build concept about the archives and museums in India.
DSE A2	Some Aspects of European History	5	to build concept about the political history of Modern Europe	to build concept about the political history of Modern Europe
DSE B2	Some Aspects of Society and Economy of Modern Europe	6	to build concept about the socio-economic patterns and regional variations of pre capitalist Europe	to build concept about the socio-economic patterns and regional variations of pre capitalist Europe

Department of History: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC-1	History of India (Up to c. 300 BCE)	1	✓	✓	✓	✓	✓	✓	✓
CC-2	Social Formations and Cultural Patterns of The Ancient World		✓	✓	✓	✓	✓	✓	✓
CC-3	History of India (c.300 BCE- c. 750 BCE.)	2	✓	✓	✓	✓	✓	✓	✓
CC-4	Social Formation and Cultural Patterns of the Medieval World		✓	✓	✓	✓	✓	✓	✓
CC-5	History of India (CE750-1206)	3	✓	✓	✓	✓	✓	✓	✓
CC-6	Rise of Modern West I		✓	✓	✓	✓	✓	✓	✓
CC-7	History of India (CE1206-1526)		✓	✓	✓	✓	✓	✓	✓
SEC A1	Museums and Archives	4	✓	✓	✓	✓	✓	✓	✓
CC-8	Rise of the Modern West II		✓	✓	✓	✓	✓	✓	✓
CC-9	History of India (CE1526-1605)		✓	✓	✓	✓	✓	✓	✓
CC-10	History of India (CE1605-1750s)		✓	✓	✓	✓	✓	✓	✓
SEC B2	Art Appreciation	5	✓	✓	✓	✓	✓	✓	✓
CC-11	History of the Modern Europe		✓	✓	✓	✓	✓	✓	✓
CC-12	History of India (CE.1750s-1857)		✓	✓	✓	✓	✓	✓	✓
DSE A1	History of Bengal (CE. 1757- 1905)		✓	✓	✓	✓	✓	✓	✓
DSE B1	History of Modern East-Asia I		✓	✓	✓	✓	✓	✓	✓
CC-13	History of India (CE. 1857-1964)		✓	✓	✓	✓	✓	✓	✓
CC-14	History of the World Politics		✓	✓	✓	✓	✓	✓	✓
DSE A3	History of Bengal (CE.1905-1947)	6	✓	✓	✓	✓	✓	✓	✓
DSE B3	History of Modern East Asia II		✓	✓	✓	✓	✓	✓	✓
General									
CC-1/GE-1	History of India up to 300CE	1	✓	✓	✓	✓	✓	✓	✓
CC-2/GE-2	History of India (CE300-1206)	2	✓	✓	✓	✓	✓	✓	✓
CC-3/GE-3	History of India (CE1206-1707)	3	✓	✓	✓	✓	✓	✓	✓
SEC A1	Historical Tourism	3/5	✓	✓	✓	✓	✓	✓	✓
CC-4/GE-4	History of India (CE 1707-1950)	4	✓	✓	✓	✓	✓	✓	✓
SEC B1	Archives and Museums in India	4/6	✓	✓	✓	✓	✓	✓	✓
DSE A2	Some Aspects of European History	5	✓	✓	✓	✓	✓	✓	✓
DSE B2	Some Aspects of Society and Economy of Modern Europe	6	✓	✓	✓	✓	✓	✓	✓

DEPARTMENT OF MATHEMATICS

Program Outcome and Attainment: Honours & General – SUMMARY

- Gain in-depth knowledge about topics chosen from those offered through the department.
- Formulate and develop mathematical arguments in a logical manner.
- Development of computational skills of the students and use of computers and software as an exploratory, visualizing, modelling and computational tool.
- Development of a versatile ability to work effectively in a broad range of analytic, scientific, government, technical and other positions.
- Equipped with mathematical modelling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Department of Mathematics: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC-1/GE-1	*	1	The students will learn: Complex number arithmetic, some special complex valued functions. polynomials over \mathbb{Z} , their nature of roots, elementary idea of solving. The process of solving system of linear equation by Matrix, Matrix eigen values, their importance. The students will learn the real numbers as points on a straight line, real valued functions, study of function of 2 real variables, to build concepts of 1st order ODE solutions, higher order linear ODE. Students will learn plane and space Euclidean geometry, standard geometrical shapes and properties.	The student will learn the basic concepts of algebra, differential equation and co-ordinate geometry.
CC2/GE2	*	2	This is devoted to give idea of sequence and series in \mathbb{R} , 1 variable MVT's on differential calculus, outline idea of extreme values. Students will get idea of homogeneous higher order linear ODE, concepts of PDE in brief. Students will learn vector arithmetic, products, vector geometry in brief. Students will learn salient features and properties of numbers in \mathbb{R} , concepts of congruence and linear congruence, their applications, elementary idea of Boolean Algebra.	The students will get an intuition about calculus, differential calculus and discrete mathematics
CC3/GE3	*	3	Students will learn integration as limit of a sum, concept of convergence of improper integrals, application in geometry. This is designed to build concept of numerical approximation, kind of errors, convergence and efficiency of various numerical methods in math and other science branches, to learn what linear programming is in math, application of it to solve real problems.	Students will develop a brief idea on integration, numerical analysis and linear programming problem.
SEC A1	*		This is structured to build concepts about coding. Students will learn how to write code in C programming language, C syntax, Conditional statements, data structures.	Students will have the basic knowledge of C-programming language.
CC4/GE4	*	4	Students will get 1st course of abstract algebra, concepts and elementary properties of algebraic structures like: group, ring, field, vector space. Students will have basic knowledge about computers, it's components, and will learn what programming is, get ideas about programming languages, to build concepts of Probability, elementary concept of random variables, 2D probability space.	Students will get to know about abstract algebra. Students will have basic knowledge about computers, it's components, and will learn what programming is, get ideas about programming languages, to build concepts of Probability and Statistics.
SEC B1	*		This is structured to build concepts about logic, statements and their truth tables, elementary idea about predicate calculus.	Students will learn about logic, statements and their truth tables, elementary idea about predicate calculus.
DSE-A	*	5	Students will learn about definition, examples and basic properties of graphs, pseudographs, complete graphs, bi-partite graphs, isomorphism of graphs, paths and circuits, Eulerian circuits, Hamiltonian cycles, the adjacency matrix, weighted graph, travelling salesman's problem, shortest path, Dijkstra's algorithm, Floyd-Warshall algorithm, definition of Trees and their elementary properties. definition of Planar graphs, Kuratowski's graphs.	Students will have an intuition of Graph Theory.
SEC A2	*		This is structured to give students concepts of different programming paradigms, their differences, C++ as an OOP programming language, components and syntax of C++, loops, data structures of C++, OOP features of C++.	Students will have the basic knowledge of C++.
DSE B	*	6	To give idea about series of real-valued functions, power series over \mathbb{R} , their convergence, brief idea about periods of functions, their importance, and elementary knowledge about Laplace Transform, it's application to solve ODE in \mathbb{R} .	Students will develop the concept of Advanced Calculus.
SEC B2	*		Students will get intuitive idea of Boolean Algebra, some elementary properties, 12 brief concept on switching circuits, logic gates.	Students will get intuitive idea of Boolean Algebra.

*There is no specific course name in Mathematics (General), since each course is a combination of different topics.

Department of Mathematics: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
CC1/GE1	*	1	√	√	√				√
CC2/GE2	*	2	√	√	√				√
CC3/GE3	*	3	√	√	√		√		√
SEC A1	*		√	√	√				√
CC4/GE4	*	4	√				√	√	√
SEC B1	*		√		√				√
DSE-A	*	5	√	√					√
SEC A2	*		√		√				√
DSE B	*	6	√	√					√
SEC B2	*		√		√				√

*There is no specific course name in Mathematics (General), since each course is a combination of different topics.

DEPARTMENT OF PHILOSOPHY

Program Outcome and Attainment: Honours & General – SUMMARY

- The Philosophy Undergraduate Programme, Honours and General, takes in its fold such core courses as are necessary for the overall development of a human being, physically as well as morally and spiritually. Thus, it helps in developing critical insights and a broader spectrum of mind for understanding the inner meaning of life. Students acquire the knowledge that life is directed towards attaining any one of the four ideals viz., *dharma*, *artha*, *kāma*, *mokṣa*.
- It not only makes the students aware of their age-old wisdom heritage, but also familiarizes them with the world-wide philosophical thoughts, that too based on logical reasoning and also on metaphysical grounds. They also learn the application of logical tools of valid reasoning and the technique to avoid fallacious arguments.
- This helps them in churning out their own innermost principles by inculcating in them the passion for knowing more and more.
- Thereby the programme aims at developing in them a non-prejudiced approach towards their family, society and the global platform at large.
- The direction of the programme aims at an analytical way of looking at things and creating a free flow of thought; thereby helping them in self-development.
- Students get to know some of the socio-political aspects necessary for building up a healthy society and also their basic, natural and constitutional rights as human beings.
- With its practical outlook it is directed towards enhancing such skills in the students so that they can avail themselves of the various job prospects such as in the academic sphere that are directly or indirectly related to the Philosophy subject like Teaching, Journalism, Counselling etc. They can also opt for services in other non-academic fields like different Government spheres as well.

Department of Philosophy: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
PHI-A-CC-1	Indian Philosophy-I	1	To enlighten the students with the philosophical thoughts of ancient wisdom world of India.	Students learn about the Epistemological and Metaphysical teachings of some of the Vedic thoughts viz., Nyaya- Vaisesika and non-Vedic thoughts viz., Carvaka-Bauddha-Jain.
PHI-A-CC-2	History of Western Philosophy-I		To acquaint students a historical structure of the development of western philosophical tradition.	Students gain knowledge of the European thought world tracing history back to the Greek Philosophy, which is regarded as the ground for all scientific endeavours.
PHI-A-CC-3	Indian Philosophy-II	2	To help students develop an insight about the existence and reality of life.	Students learn about the Epistemological and Metaphysical teachings of the Vedic thoughts viz., Samkhya, Yoga, Mimamsa and, Vedanta.
PHI-A-CC-4	History of Western Philosophy-II		To provide the students with a knowledge of the modern philosophical world.	Students gain knowledge of the Modern European thought world.
PHI-A-CC- 5	Philosophy of Mind	3	To familiarize students with the workings of human mind.	Students develop some insight about how the mind works and what factors regulate our thought-process.
PHI-A-CC-6	Social and Political Philosophy		To introduce the students to the socio-political concepts.	They are made practically aware of the socio-political ideals and thus define the relation of an individual with the society.
PHI-A-CC-7	Philosophy of Religion		To make students conscious of and respectful to the diverse religious beliefs.	They study the basic principles and beliefs of some of the religious schools, both Indian and Western; thereby they can develop an unbiased and respectful attitude towards world religions.
PHI-A-SEC-A	Man and Environment		To create ecological awareness and develop a sense of respect towards nature.	Students develop awareness about the environmental issues and learn about the human practices that have been taken and about further steps that can be implemented for preserving Nature.
PHI-A-CC-8	Western Logic-I	4	To guide students how to think logically and analyse and solve problems.	Students learn the basics of logical reasoning and how they are applied in scientific enquiries.
PHI-A-CC-9	Western Logic-II		Let students grow skill of logical thinking and avoiding errors or fallacious reasonings.	Students learn the applications of different methods required to reason properly and logically.
PHI-A-CC-10	Epistemology and Metaphysics (Western)		To develop a philosophical outlook towards reality and the phenomenal world.	Through philosophical analysis students discover the complexities of meaning underlying some of the basic notions of Philosophical enquiry.
PHI-A-SEC-B	Philosophy of Human Rights		To inform the students about the nature and origin of human rights and some related basic concepts regarding Rights and duties recognised in Indian Constitution.	Students learn about the concept of human rights from the perspective of various socio-political thinkers and how these rights are preserved by the Indian Constitution.
PHI-A-CC-11	Indian Logic and Epistemology-I	5	To familiarize students about the logical reasoning process of the Indian Nyaya Philosophy	They get acquainted with the intricacies of Indian logical analysis of our knowledge-process.
PHI-A-CC-12	Ethics (Indian)		To impart among the students' moral values and socio-ethical ideals.	They are made conscious of the socio-cultural values of the Indian society and the relevance of the Indian ethical principles for our moral enrichment and in making life worth living.
PHI-A-DSE-A (1)	Philosophy of language (Indian)		Let students know the process of linguistic analysis following Nyaya Philosophical trend.	Students become aware of the Indian philosophical approach towards linguistic analysis that brings out the nature of word-meaning relation, focussing on the syntactic-semantic knowledge.
PHI-A-DSE-B (1)	An Enquiry Concerning Human		To introduce the students to the great work of David Hume and his philosophical standpoint	Students become familiar with the epistemological and metaphysical concepts, beliefs and principles of the modern Empiricist thinker, Sir

Course Code	Course Name	Semester	Objective	Outcome
	Understanding – D. Hume			David Hume, and thus develop a new outlook towards Nature and our mind-set.
PHI-A-CC-13	Indian Logic and Epistemology-II	6	To enlighten students about the logical reasoning process of the Indian Nyaya Philosophy	They acquire more knowledge about the intricacies of Indian logical analysis of our thought-process.
PHI-A-CC-14	Ethics (Western Ethics)		Moral Philosophy involves systematizing, defending and recommending concepts of right and wrong behaviour.	A study of the Western ethical principles helps them to clarify some of the basic concepts of morality and understand what it means to be moral.
PHI-A-DSE-A (2)	Philosophy of Language (Western)		To acquaint the students with the Western Philosophical concept of the nature and process of linguistic analysis	Students learn Western approach towards the nature of word-meaning relation, the problems involved in the applicability of words; and, thereby understand that the problems of Philosophy often turn out to be the problems involved in terminology used to frame those problems.
PHI-A-DSE-B (2)	M.K. Gandhi		To introduce the students to the Gandhian socio-political concepts	Students get acquainted with the philosophical teachings and moral ideas of this great thinker.

Department of Philosophy: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
PHI-G-CC-1	Indian Epistemology and Metaphysics	1	To familiarize students about the basic tenets of the āstika and nāstika Indian Philosophical schools	Students learn about the age-old teachings of the non-Vedic thoughts of Carvaka and Vedic thoughts of Nyaya-Vaisesika and Advaita Vedanta.
PHI-G-CC-2	Western Epistemology and Metaphysics	2	To acquaint students about the basic tenets of the Western Philosophical teachings.	Students gain knowledge of the basic concepts of philosophical understanding and the expositions of the Modern European thought world.
PHI-G-CC-3	Western Logic	3	Let students grow skill of logical thinking and avoiding errors or fallacious reasonings.	Students learn the basics of logical reasoning and how they are applied in scientific enquiries.
PHI-G-SEC-A	(b) Business Ethics	3/5	To communicate to the students the theoretical and practical aspects of the moral principles in the context of business and management	Students learn the nature and application of moral principles and their far-reaching effects in the field of business and management.
PHI-G-CC-4	Philosophy of Mind	4	To help students know the nature and workings of the human mind	Students get to know some fascinating facts about the human psyche and the analysis of our thought-process.
PHI-G-SEC-B	(a) Man and Environment	4/6	To create ecological awareness and develop a sense of respect towards nature.	Students develop awareness about the environmental issues and learn about the human practices and steps that can be implemented for preserving Nature.
PHI-G-DSE-A	(b) Social and Political Philosophy	5	To introduce the students to the socio-political concepts.	Students become familiar with the social and political concepts that shape one's thoughts as a social living being and make them aware of their duties.
PHI-G-DSE-B	(b) Contemporary Indian Thought	6	Let students get the opportunity to be familiar with the ideals and struggles of some of great Indian thinkers	Students get acquainted with some of the philosophical teachings and moral ideas of the great thinkers like Swami Vivekananda, M.K. Gandhi and B.R. Ambedkar, which help them in realising their own responsibilities in preserving the social peace and harmony.

Department of Philosophy: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
PHI-A-CC-1	Indian Philosophy-I	1	√	√	√	√	√	√	√
PHI-A-CC-2	History of Western Philosophy-I		√	√	√	√	√	√	√
PHI-A-CC-3	Indian Philosophy-II	2	√	√	√	√	√	√	√
PHI-A-CC-4	History of Western Philosophy-II		√	√	√	√	√	√	√
PHI-A-CC-5	Philosophy of Mind	3	√	√	√		√	√	√
PHI-A-CC-6	Social and Political Philosophy		√	√	√	√	√	√	√
PHI-A-CC-7	Philosophy of Religion		√	√	√	√	√	√	√
PHI-A-SEC-A	Man and Environment		√	√	√	√	√	√	√
PHI-A-CC-8	Western Logic-I	4	√	√	√				√
PHI-A-CC-9	Western Logic-II		√	√	√				√
PHI-A-CC-10	Epistemology and Metaphysics (Western)		√	√	√		√	√	√
PHI-A-SEC-B	Philosophy of Human Rights		√	√	√	√	√	√	√
PHI-A-CC-11	Indian Logic and Epistemology-I	5	√	√	√		√		√
PHI-A-CC-12	Ethics (Indian)		√	√	√	√	√	√	√
PHI-A-DSE-A (1)	Philosophy of language (Indian)		√	√	√				√
PHI-A-DSE-B (1)	An Enquiry Concerning Human Understanding – D. Hume		√	√	√		√		√
PHI-A-CC-13	Indian Logic and Epistemology-II	6	√	√	√		√		√
PHI-A-CC-14	Ethics (Western Ethics)		√	√	√	√	√	√	√
PHI-A-DSE-A (2)	Philosophy of Language (Western)		√	√	√		√		√
PHI-A-DSE-B (2)	M.K. Gandhi		√	√	√	√	√	√	√
General									
PHI-G-CC-1	Indian Epistemology and Metaphysics	1	√	√	√	√	√	√	√
PHI-G-CC-2	Western Epistemology and Metaphysics	2	√	√	√	√	√	√	√
PHI-G-CC-3	Western Logic	3	√	√	√				√
PHI-G-SEC-A(b)	Business Ethics	3/5	√	√	√	√	√	√	√
PHI-G-CC-4	Philosophy of Mind	4	√	√	√			√	√
PHI-G-SEC-B(a)	Man and Environment	4/6	√	√	√	√	√	√	√
PHI-G-DSE-A(b)	Social and Political Philosophy	5	√	√	√	√	√	√	√
PHI-G-DSE-B(b)	Contemporary Indian Thought	6	√	√	√	√	√	√	√

DEPARTMENT OF PHYSICS

Program Outcome and Attainment: Honours & General – SUMMARY

The 6-semester Physics General program is part of the B.Sc. General program. The Physics General program expects and strives to:

- provide the students more than just common level basic foundational knowledge of mechanics, electricity and magnetism
- provide knowledge of diverse fields ranging from waves, optics, thermal physics to advance knowledge of nuclear & modern physics, lasers and even fundamentals of Quantum Mechanics
- impart them with employable skills like particle detector & accelerator related information which have direct application in real world
- enhance their skill set by training them in applied fields and in uses of essential tools, apparatus, equipment & even computation physics related mathematics & programming

The above especially the last, opens up avenues and vistas for them in technical higher education and diverse employment arenas, as industries in contemporary times are based on automation, management of which makes knowledge of Physics a pre-requisite.

Theoretical, empirical, experimental, applied and dynamic aspects of Physics are taught concurrently to ensure they are competent to have an intensive future in job-oriented preparations and programs and can even have a career in research and development.

Department of Physics: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC1	Mechanics	1	The course will give knowledge about general properties of matter like Gravitation, Surface tension, Viscosity, Elasticity and Simple Harmonic Motion etc. It also gives the idea of general parameter like velocity, acceleration, momentum and force.	Understand the features of non-inertial systems and fictitious forces. Understand and analyse the features of central forces with respect to planetary motion. Understand the basic ideas of Simple Harmonic Motion and also concept of wave motion.
CC2	Electricity and Magnetism	2	This paper deals with the study of Electric field, Magnetic field and electromagnetism. The first unit gives the mathematical idea behind the Electric field. The Second unit deals with the physics behind the Magnetostatics and the last one deals with the Electromagnetic theory.	Electricity and Electrodynamics have the key role in the development of modern technological world. Without electric power and communication facilities, life on earth stands still. By this course student get a sound foundation in electricity and electrodynamics. Students can understand and analyse the mechanism of magnetic field in matter and also the electric and magnetic properties of physical systems.
CC3	Thermal Physics and Statistical Mechanics	3	This course is to develop a working knowledge of statistical mechanic and to use this knowledge to explore various applications related to topics material science and the physics of condensed matter.	Understand the thermodynamics description of the ideal gas. Understand the all laws of thermodynamics and principles of statistical physics and their applications. Understand the thermodynamic potentials and phase transitions.
SEC A-2	Renewable Energy		The course creates concern among the students on energy conservation and environmental protection.	Knowledge based paper and it is very much relevant to context of global warming, develops an understanding about sustainable source of alternate energy e. g., solar energy, geothermal energy, wind energy, ocean and hydro energy etc.
CC4	Waves and Optics	4	The main objectives of this course is to make students aware regarding the various phenomenon of waves and optics like Interference, Diffraction and Polarisation.	Understand the physics behind various phenomenon in waves and optics and cause or origin of them. Also understand various natural phenomenon which is happening in their surroundings.
SEC B-2	Electrical Circuits and Network skills		Enable students to design and trouble shoot electrical circuits, networks and appliances through hands-on mode.	Learn to do electrical wiring with assured electrical protection devices and understand various electrical faults in distribution system and method of measuring the power in a circuit, which is expressed in watts.
DSE A-2	Modern Physics	5	Describe the atomic spectra of atoms and electron spin and nuclear magnetic resonance spectroscopy and their applications. Basic laser principles, behaviour, properties of Laser radiations and its applications.	The theoretical background to study Condensed matter, Spectroscopy, Astrophysics, Electrodynamics and Nuclear Physics is gained by this course. Understand the uncertainty relations and the idea of wave function. Identify atomic effect and explain different Laser used.
DSE B-2	Nuclear Physics	6	This course is intended to explore the interior of nucleus and interaction between nucleons. This course is designed to teach students various types of radiations and their interaction with the matter.	This course explores the interior of nucleus and interaction between nucleons and develop a research interest in nuclear physics. Students are able to understand the detecting methods and instruments for different types of charged and neutral particles.

Department of Physics: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
CC1	Mechanics	1	✓	✓					✓
CC2	Electricity and Magnetism	2		✓				✓	
CC3	Thermal Physics and Statistical Mechanics	3		✓		✓	✓	✓	
SEC A-2	Renewable Energy		✓		✓	✓		✓	✓
CC4	Waves and Optics	4		✓		✓	✓	✓	
SEC B-2	Electrical Circuits and Network skills		✓	✓	✓			✓	✓
DSE A-2	Modern Physics	5	✓	✓			✓		✓
DSE B-2	Nuclear Physics	6	✓	✓			✓		✓

DEPARTMENT OF POLITICAL SCIENCE

Program Outcome and Attainment: Honours & General – SUMMARY

The course will basically help the students in various types of competitive examinations and it will also help them to learn more about the legislative processes. The course will also make the students informed about the dynamics of state relations and foreign policy, diplomacy and will help them in forming their own opinion about the public policies. In addition, the course will also help the students to learn primarily about the basics of research methods, concepts and techniques. So, these broad themes in the course will help the students in learning and executing in the sectors of mass media, public administration and economic affairs in the globalizing world which in the long term will lead them to becoming academician, diplomats and ambassadors.

Department of Political Science: Course Outcomes: Honours

Course Code	Course Name	Semester	Outcome	Objective
PLS-A-CC-1-1	Understanding Political Theory: Concepts	1	Able to assess and differentiate the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories.	To motivate the students developing their knowledge about the inception or history of key political theories.
PLS-A-CC-1-2	Understanding Political Theory: Approaches and Debates		Able to analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, Feminist.	To motivate the students developing their knowledge about various approaches and debates of key political theories.
PLS-A-CC-2-3	Constitutional Government in India	2	Able to understand the historical background of the constitutional making and its importance for building a democratic India, the structure of Indian government, the structure of state government, the local Administration.	As we are Indian, the future generations must know about the constitutional processes of India that will help them to grow as a good responsible citizen of India.
PLS-A-CC-2-4	Politics In India: Structures and Processes		Able to critically evaluate the Indian Party system – its development and looking at the ideology of dominant national parties	As we are Indian, the future generations must know about the various constitutional institutions and socio-political heritage of India that will help them to grow as a good responsible citizen of India.
PLS-A-CC-3-5	Indian Political Thought– I	3	Able to trace the evolution of Indian political thought from ancient India to modern India.	To educate the student about the rich political philosophy / ideologies of ancient to modern India.
PLS-A-CC-3-6	Comparative Government and Politics		Compare and contrast the political systems of the countries explored in the course, paying particular attention to historical, political, economic, geographical, and moral aspects of governance in a variety of countries.	To learn about the political structure and processes of other countries of the world.
PLS-A-CC-3-7	Perspectives On International Relations		To be able to think creatively about pressing global problems and to equip students with the analytic tools, language expertise, and cross-cultural understanding to guide them in that process. Students will learn how to comprehend, critically analyze, and evaluate trends in international politics	To learn about the world system / and inter-state relations on the basis of key theories and their practical implications.
PLS-A-SEC-3-A (1)	Democratic Awareness Through Legal Literacy		To understand laws relating to Criminal jurisdiction-provisions relating to filing an FIR, arrest, bail, search and seizure and some understanding of the questions of evidence and procedure in the Criminal Procedure	To be aware of the entire legal processes that how several laws are to be adjudicated / implemented.
PLS-A-SEC-3-A (2)	Understanding The Legal System		To understand laws relating to Criminal jurisdiction-provisions	To be aware of the entire legal processes that how several laws are to be adjudicated / implemented.
			Able to discuss the views of various Indian political thinkers.	To develop the knowledge of Indian thinkers and their thoughts.
PLS-A-CC-4-8	Indian Political Thought II	4		
PLS-A-CC-4-9	Global Politics Since 1945		Able to analyze the Cold War phases and understanding the post Cold War era and the developments in third world countries in post world war II era like NAM and its' Relevance, Pan Africanism. Post-Cold War world: overview	To learn about the post-Cold War II global system.
PLS-A-CC-4-10	Western Political Thought and Theory I		Able to explain the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman, Political Thought: its contributions with special emphasis on the emergence of Roman law.	To educate the students about the ancient / modern political philosophy of renowned western political thinkers.
PLS-A-SEC-4-B (1)	Legislative Practices and Procedures		Able to explain the powers and Privileges, Constituency Work of Members of Parliament	To gain knowledge of powers and Privileges, Constituency Work of Members of Parliament

Course Code	Course Name	Semester	Outcome	Objective
PLS-A-SEC-4-B (2)	Elementary Aspects of Social Research		This goal is achieved by training students in the different methods and tools of investigation such as empirical research methods, survey research and data analysis of subject responses	To build concepts on basic knowledge of research and different components like variables (dependent and independent), propositions and hypotheses.
PLS-A-CC-5-11	Western Political Thought and Theory II	5	Able to explain the dominant features of modern Western Political Thought: contributions with special emphasis on Mill, Hegel, Marxist school etc.	To educate the students about the ancient / modern political philosophy of renowned western political thinkers.
PLS-A-CC-5-12	Political Sociology		Able to understand the relationship between state and society in shaping politics in India both historically and analytically.	To learn about the interplay of politics and society and several factors dominating both the spheres.
PLS-A-DSE-5-A (1)	Gender and Politics		To make women empowered	To be aware about gender sensitization issues.
PLS-A-DSE-5-A (1)	Understanding South Asia		Able to gain specific knowledge of the under mentioned subject areas South Asia- Understanding South Asia as a Region(a) Historical and Colonial Legacies	To gain specific knowledge of the under mentioned subject areas South Asia- Understanding South Asia as a Region(a) Historical and Colonial Legacies
PLS-A-DSE-5-B (1)	Indian Foreign Policy in A Globalising World		Able to explain Indian Foreign Policy: Basic Principles, Evolution and Bilateral Relations with China, US, USSR/Russia.	To know India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power, India's Relations with the USA and USSR/Russia, India's Engagements with China
PLS-A-DSE-5-B (2)	Development Process and Social Movements in Contemporary India		Make people socially aware.	To know the rich cultural and social history of India.
PLS-A-CC-6-13	Public Administration-- Concepts and Perspectives	6	To develop knowledge on nature, Scope and Evolution of Public Administration (Indian context) Principles of Socialist Management	To introduce the students about policy making / decision making procedures from the grassroot level.
PLS-A-CC-6-14	Administration and Public Policy in India		Getting knowledge about the administration process.	To learn about the decision-making processes of India.
PLS-A-DSE-6-A (3)	Public Policy in India		Able to explain the Continuity and change in Indian Policies: Able to know the brief historical overview	To know the Continuity and change in Indian administration
PLS-A-DSE-6-A (4)	Understanding Global Politics		To know the Continuity and change in Indian administration	Able to explain 'What Makes the World', What it is a. The Sovereign State System Evolution of the state system
PLS-A-DSE-6-B (4)	Human Rights in A Comparative Perspective		To make people aware of citizens' rights.	To know about human rights law and various conventions.

Department of Political Science: Course Outcomes: General

Course Code	Course Name	Semester	Outcome	Objective
PLS-G-CC-1-1	Introduction to Political Theory	1	Able to assess the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories.	To motivate the students developing their knowledge about the inception or history of key political theories.
PLS-G-CC-2-2	Comparative Government and Politics	2	To be in a position to compare and contrast the political systems of the countries explored in the course, paying particular attention to historical, political, economic, geographical, and moral aspects of governance in a variety of countries.	To learn about the political structure and processes of other countries of the world.
PLS-G-CC-3-3	Government and Politics in India	3	Able to understand the historical background of the constitutional making and its importance for building a democratic India, the structure of Indian government, the structure of state government, the local Administration.	As we are Indian, the future generations must know about the constitutional processes of India that will help them to grow as a good responsible citizen of India.
PLS-G-SEC-3-A (1)	Legal Literacy		To gain knowledge on the Legal Issues and apply in real life situation	To be aware of the entire legal processes that how several laws are to be adjudicated / implemented.
PLS-G-SEC-4-B (1)	Elementary Dimensions of Research		This goal is achieved by training students in the different methods and tools of investigation such as empirical research methods, survey research and data analysis of subject responses	To build concepts on basic knowledge of research and different components like variables (dependent and independent), propositions and hypotheses.
PLS-G-CC-4-4	International Relations	4	To be able to think creatively about pressing global problems and to equip students with the analytic tools, language expertise, and cross-cultural understanding to guide them in that process. Students will learn how to comprehend, critically analyze, and evaluate trends in international politics	To learn about the world system / and inter-state relations on the basis of key theories and their practical implications.
PLS-G-SEC-5-A (2)	Understanding the Legal System		To gain knowledge on the Legal Issues and apply in real life situation	To be aware of the entire legal processes that how several laws are to be adjudicated / implemented.
PLS-G-SEC-6-B (2)	Basic Research Methods		Able to analyse and predict socio political phenomena based on the study of existing socio-economic determinants and past experiences.	To build concepts on basic knowledge of research and different components like variables (dependent and independent), propositions and hypotheses.
PLS-G-DSE-A-5-1A	Public Administration	5	Able to gain knowledge on the term of Public Policy: definition, characteristics. Models. Policy implementation. Able to explain the major Programmes (basic features and objectives): MGNREGA; Sarva Shiksha Abhiyan; National Rural Health Mission	To introduce the students about policy making / decision making procedures from the grassroot level.
PLS-G-DSE-A-5-1B	Indian Foreign Policy		Able to analyse evolution of Indian foreign policy, Basic principles of Indian foreign policy, India and her neighbours: Bangladesh; Pakistan; Nepal;	To know meaning and determinants of Foreign Policy, National Interest as key concept in foreign policy, Instruments of foreign policy: diplomacy; propaganda; military.
PLS-G-DSE-B-6-2A	Feminism: Theory and Practice	6	To assess the Liberal; Socialist; Marxist; Radical Feminism; New Feminist ideas, Traditional historiography and Feminist critiques, social reform movements and position of women: Indian context, gender relations in family: consumption; entitlement; property rights.	To be aware about gender sensitization issues.
PLS-G-DSE-B-6-2B	Human Rights: Theory and Indian Context		Able to inculcates among students a basic understanding of the rights and duties of citizenship and thereby to act as responsible citizens through the observation of important days such as Independence Day, Republic Day and also spreading awareness in society through street plays based on specific socio-political issues such as domestic violence, disillusioned youth of the materialistic world etc.	To know the history of the idea of human rights; Evolution of generations of human rights. Universal Declaration of Human Rights: provisions and significance. UN and human rights: charters; UN Human Rights Commission; Vienna Declaration and Programme of Action.

Department of Political Science: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
PLS-A-CC-1-1	Understanding Political Theory: Concepts	1	√		√	√	√		√
PLS-A-CC-1-2	Understanding Political Theory: Approaches and Debates		√	√	√	√	√	√	
PLS-A-CC-2-3	Constitutional Government in India	2		√	√	√			√
PLS-A-CC-2-4	Politics In India: Structures and Processes			√	√	√	√		√
PLS-A-CC-3-5	Indian Political Thought– I	3	√			√	√		√
PLS-A-CC-3-6	Comparative Government and Politics					√	√		√
PLS-A-CC-3-7	Perspectives On International Relations		√			√	√		√
PLS-A-SEC-3-A (1)	Democratic Awareness Through Legal Literacy					√	√	√	√
PLS-A-SEC-3-A (2)	Understanding The Legal System					√	√	√	√
PLS-A-CC-4-8	Indian Political Thought II	4	√			√	√		√
PLS-A-CC-4-9	Global Politics Since 1945		√			√	√	√	√
PLS-A-CC-4-10	Western Political Thought and Theory I		√			√	√		√
PLS-A-SEC-4-B (1)	Legislative Practices and Procedures					√	√	√	√
PLS-A-SEC-4-B (2)	Elementary Aspects of Social Research					√	√	√	√
PLS-A-CC-5-11	Western Political Thought and Theory II	5	√			√	√		√
PLS-A-CC-5-12	Political Sociology		√			√	√	√	
PLS-A-DSE-5-A (1)	Gender and Politics					√	√	√	√
PLS-A-DSE-5-A (1)	Understanding South Asia					√	√	√	√
PLS-A-DSE-5-B (1)	Indian Foreign Policy in A Globalising World					√	√	√	√
PLS-A-DSE-5-B (2)	Development Process and Social Movements in Contemporary India					√	√	√	√
PLS-A-CC-6-13	Public Administration-- Concepts and Perspectives	6				√	√		√
PLS-A-CC-6-14	Administration and Public Policy in India					√	√	√	√
PLS-A-DSE-6-A (3)	Public Policy in India					√	√	√	√
PLS-A-DSE-6-A (4)	Understanding Global Politics					√	√	√	√
PLS-A-DSE-6-B (4)	Human Rights in A Comparative Perspective					√	√	√	√
General									
PLS-G-CC-1-1	Introduction To Political Theory	1	√		√	√	√		√
PLS-G-CC-2-2	Comparative Government and Politics	2	√	√	√	√	√	√	
PLS-G-CC-3-3	Government and Politics in India	3		√	√	√			√
PLS-G-SEC-3-A(1)	Legal Literacy			√	√	√	√	√	√
PLS-G-SEC-4-B(1)	Elementary Dimensions of Research	4		√	√	√	√	√	√

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
PLS-G-CC-4-4	International Relations	5		√	√	√		√	√
PLS-G-SEC-5-A(2)	Understanding The Legal System			√	√	√	√	√	√
PLS-G-SEC-6-B (2)	Basic Research Methods			√	√	√	√	√	√
PLS-G-DSE-A-5-1A	Public Administration			√	√	√	√	√	√
PLS-G-DSE-A-5-1B	Indian Foreign Policy	6		√	√	√	√	√	√
PLS-G-DSE-B-6-2A	Feminism: Theory and Practice			√	√	√	√	√	√
PLS-G-DSE-B-6-2B	Human Rights: Theory and Indian Context			√	√	√	√	√	√

DEPARTMENT OF PSYCHOLOGY

Program Outcome and Attainment: Honours & General – SUMMARY

Based on the CBCS syllabus structure the students can learn and understand the inner concept of Basic Psychology and how they apply these concepts in their daily life. They also build up the knowledge about social understanding, group activity, gender role, interpersonal attraction skills through learning the social psychology. They develop an understanding of various psychological disorders and gain knowledge about therapeutic interventions. They can build up the knowledge of life long development in where nature and nurture take an important role for child development. They try to apply their knowledge in the family set up. Through the knowledge of research methodology and statistics they can develop the research orientation for their higher studies that will certainly strengthen their individual career to the teaching and research endeavour. From the mentioned syllabus they also build up the knowledge that how to overcome the stress and what are the complete physical, mental, social and spiritual well beings. These strategies are helpful for maintaining their own healthy lifestyle. They gain the knowledge about counselling process like; role of counsellor, how to maintain interpersonal relationship and how these skills are applied in personal and professional setting as well as other significant areas of life.

Students with psychology general can apply for post-graduation in Psychology in Open Universities, also can studies as a RCI affiliated Special educators and can assist or guide in any counselling setup.

Department of Psychology: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC-1	Foundations of Psychology	1	To understand the basic psychological processes and their applications in everyday life.	Should have clear concept about the basic and fundamental psychological principles such as basic psychological processes and experimental psychology.
CC-2	Introduction to Social Psychology	2	To understand the basics of social psychology and to understand the individual in the social world.	Should have the concept of applied social psychology which will help in understanding the needs, goals and strategies of intervention about various social issues like interpersonal attraction, attitude formation and changes, aggression and group dynamics.
CC-3	Psychological Disorders	3	To develop an understanding of the various psychological disorders and their treatment.	Should have the concept of clinical psychology and developing conception about development of normal and abnormal behaviours, nature of such behaviours, as well as the different ways to diagnose and treat clinical behaviours such as clinical interviews, administration of the psychological tests and orientation about the psychological interventions.
CC-4	Statistical methods and Psychological Research	4	To introduce basic statistical methods, psychological testing and quantitative methods and their uses.	Should have conception about why Psychology is a science and in this regard should develop basic methodological conceptions and these in combination result in development of research orientation for their higher studies that will certainly strengthen their individual career and help them to contribute to the teaching and research endeavor.
DSE- 1A	Life span Development	5	To understand how human life unfolds from conception to late adulthood and to understand the relationship between theory and applications within each domain of development.	Should have a balancing view about the Nature- Nurture debate and must learn to predict human behaviour in terms of the combined effect of genetic, psychosocial and socio-cultural variables from conception to late adulthood.
SEC- 1A	Managing Stress		To understand the main symptoms and sources of stress and learn ways of coping with stress.	Should have conception about stress management. Concept of the skill of behaviour modification techniques is also very important to develop for their higher studies in the field of psychology.
DSE- 1B	Counselling Psychology	6	To develop an understanding of basic concepts, process, techniques of counselling and the relationship between the counselor-counselee.	Should have clear concept on the basic counseling process. Concept of characteristics of counselor and the counselor-counselee relationship is very important for various activities in future.
SEC-1B	Developing Emotional Competence		To help the students learn how to understand and manage their emotions and develop emotional competencies.	Should contribute to the society in learning emotional maturity which will help in development and maintenance of healthy relationship in personal and professional settings as well as in other significant areas of life.

Department of Psychology: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
CC-1	Foundations of Psychology	1	√	√				√	
CC-2	Introduction to Social Psychology	2		√	√	√	√		
CC-3	Psychological Disorders	3					√	√	√
CC-4	Statistical methods and Psychological Research	4	√	√					
DSE- 1A	Life span Development	5						√	√
SEC- 1A	Managing Stress		√	√				√	√
DSE- 1B	Counselling Psychology	6	√	√	√	√	√	√	√
SEC-1B	Developing Emotional Competence		√					√	√

DEPARTMENT OF SANSKRIT

Program Outcome and Attainment: General – SUMMARY

A study in Sanskrit can open up a vast number of career possibilities. Such as:

- Sanskrit Teacher
- Online Transcriber
- Interpreter
- Content writer- Editor, Language-specific
- Prak-Shastri
- Acharya
- Author/ Novelist

The Sanskrit courses do not only teach the language but also include a vast treasure trove of wisdom. Following which one can specialize in subjects like yoga, Vastu shastra, poetics, Indian drama, Vedic studies, astrology and Ayurveda.

The scope of research is broad with ample job opportunities. Going for a teaching profession either in schools or universities is the first career choice one can make if pursuing Sanskrit as a discipline. Armed with a proper professional degree in the subject, the candidate can land in a well-paying job in different schools or universities of high repute.

There is a dearth of good translators and Interpreters. Translators are required in various fields for translations of documents scripted in Sanskrit. Also, an Interpreter's job is similar to a translator's job only except when they have to interpret a different language into Sanskrit.

It has a bright future in the area of computers as well. It has been identified as a computer-friendly language. It has a lot to offer in the areas of artificial intelligence, Robotics and Biomechanics.

These days BPOs are also looking at recruiting candidates proficient in the Sanskrit language for voice profiles. These candidates aid in solving queries of the Sanskrit speaking populace.

As the World is changing rapidly in terms of technology and communication, it is only shrinking and bringing us all closer to our roots. Reviving it and going back to where it all began.

Department of Sanskrit: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcomes
CC-A1	Sanskrit Poetry	1	To inform students about Sanskrit Poetry and language.	It helps students about the classical Sanskrit Poetry and classical Sanskrit language as well and students learn about the history of Sanskrit Poetry and morality.
CC-A2	Sanskrit Prose	2	To inform about Sanskrit Prose romance and social and political thoughts.	It provides the knowledge about the social and political thoughts depicted in Sukanasapadesa and general introduction of Sivrajavijayam (Historical Prose) and both the text along with the survey of Sanskrit Prose literature.
CC-A3	Sanskrit Drama	3	To inform students about history of Sanskrit Drama Abhijnanasakuntalam with its dramatical value and basic Sanskrit language and grammatical rules.	It gives a holistic study of the famous Sanskrit Drama Abhijnanasakuntalam with all its social, political, literary and lingual aspects and helps the students to know about the technical terms from Sanskrit dramaturgy and principle of Sanskrit Drama.
SEC-A-1	Basic Sanskrit			It develops the knowledge about the writing skills in Sanskrit.
CC- A4	Sanskrit Grammar	4	To communicate Students about Sanskrit grammar Laghusiddhantakaumudi and developing the speaking skills in Sanskrit.	It provides the knowledge about Samjnaprakarana, Sandhiprakarana and vibhaktiaprakarana that helps to apply in speaking and writing skills in Sanskrit.
SEC- B-1	Spoken Sanskrit and Computer Awareness for Sanskrit			It develops the speaking skills in Sanskrit and typing in unicode for presentation and digitalization of Sanskrit text web publishing.
DSE-1	Philosophy Religion and Cultural in Sanskrit Tradition	5	To apprise about cultural value in Sanskrit Tradition and controlling the mind with personality development by Gita.	It helps the students the knowledge about the form of God mode of worship by following Srimadbhagavatgita and the tenfold Dharma Samskara, theory of Purusartha and Svadharma. It gives knowledge about the historical perspective concept of as person, personality types and measures for behavioral improvement by following the Vedic literature and Gita.
DSE – 3	Literary Criticism	6	To inform students about the Sanskrit poetic aspects.	It provides the knowledge about Kavyaprakasha with all the poetic aspects by which criticize the Sanskrit Literature.

Department of Sanskrit: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
CC1/GE1	Sanskrit Poetry	1	√		√				√
CC2/GE2	Sanskrit Prose	2	√		√	√	√	√	
CC3/GE3	Sanskrit Drama	3	√	√		√		√	
SEC-A-1	Basic Sanskrit		√	√	√				√
CC4/GE4	Sanskrit Grammar	4	√						
SEC-B-1	Spoken Sanskrit and Computer Awareness for Sanskrit		√	√				√	
DSE-1	Philosophy Religion and Cultural in Sanskrit Tradition	5	√		√				
DSE-3	Literary Criticism	6	√						√

DEPARTMENT OF SOCIOLOGY

Program Outcome and Attainment: General – SUMMARY

Sociology helps to develop a sociological imagination to make sense of the reality in a more comprehensive manner. It Provide basic knowledge of sociological concepts and methods and developing ability to identify the challenges in Sociological field of enquiry. Build a strong and sound theoretical foundation in Sociology to predict and analyze the challenges in current society and enable applicability of theory with social life. General graduate students of sociology should able to develop:

- **Critical Thinking:** - Develops conceptual understanding about sociological knowledge and skills that will enable students to think critically and imaginatively about society and social issues.
- **Effective Communication:**-Communicate proficiently (oral and written) as a responsible member of society.
- **Social interaction:**-Develops communication skills and Social interaction power.
- **Effective Citizenship:**-To teach students about social values, norms and cultivate ideal citizens.
- **Ethics:**-Recognize and understand professional ethics /human values and help to communicate among the students of sociology a sense of ethical and social responsibility.
- **Environment and Sustainability:**-Understand the issues of environmental perspectives and appreciate sustainable development for long term environmental sustainability.
- **Self-directed and Life-long Learning:** -Helps to apply sociological concepts and theories to the real world and ultimately their everyday lives (personal & professional life both).

After successful completion of the programme, students can go for higher studies such as Master's degree programme, appear in different competitive examinations for employment, provide scope for employment of students in different sectors and prepare for future teachers in sociology.

Department of Sociology: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
SOC-G-CC/GE-1	Introduction To Sociology	1	To understand nature and scope of sociology, relationship and difference between other social sciences and some basic concepts.	This section will provide an idea about the discipline and perspective of Sociology.
SOC-G-CC/GE-2	Sociology of India	2	To understand the basic issues and social institutions & their practices of Indian society.	This section will provide an outline of the institutions and processes of Indian Society. The central objective is to encourage students to view the Indian reality through sociological lenses.
SOC-G-CC/GE-3	Sociological Theories	3	To understand classical sociological thinkers life and their main works.	This section will provide Sociological theories of classical thinkers and emergence of sociology as a new discipline.
SOC-G-SEC- A (1)	Techniques of Social Research		To understand stages of social research, methodology, data analysis and how to write an effective project report writing.	This section will provide the process of social research and its stages. Very important course for higher studies PhD program and competitive exams such as UGC NET SET etc
SOC-G-CC/GE-4	Methods of Sociological Enquiry	4	To understand the logic of social research, different types of methodological perspectives and modes of enquiry.	This section will provide sociological research methods. Very important course for higher studies PhD program and competitive exams such as UGC NET, SET etc.
SOC-G-SEC -B (1)	Theory and Practice of Development		To understand the concept of development, types of development and other related topics to developments.	This section will provide about the recent trends in development & post development, social services and human development.
SOC-G-DSE-5- A (1)	Religion and Society	5	To understand religion sociologically, religion in India, secularism and communalism its meaning, characteristics and factors.	This section will provide an outline regarding the scope of Sociology of Religion, theories on religion and relation between religion and society.
SOC-G-SEC- A (1)	Techniques of Social Research		To understand stages of social research, methodology, data analysis and how to write an effective project report writing.	This paper is about the process of social research and its stages. Very important course for higher studies PhD program and competitive exams such as UGC NET SET etc.
SOC-G-DSE-6- B (1)	Social Stratification	6	To understand the concepts, approaches, forms of social stratification and concepts, factors & its types of social mobility	This section will provide an idea on hierarchical divisions in society, social stratification and social mobility.
SOC-G-SEC -B (1)	Theory and Practice of Development		To know about the concept of development, types of development and other related topics to developments.	This paper is about the recent trends in development & post development, social services related matters and human development.

Department of Sociology: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
General									
SOC-G-CC/GE-1	Introduction To Sociology	1			√		√		√
SOC-G-CC/GE-2	Sociology of India	2	√			√			
SOC-G-CC/GE-3	Sociological Theories	3	√	√					
SOC-G-SEC- A (1)	Techniques of Social Research		√	√	√				√
SOC-G-CC/GE-4	Methods of Sociological Enquiry	4	√	√	√				√
SOC-G-SEC -B (1)	Theory and Practice of Development					√		√	
SOC-G-DSE-5- A(1)	Religion and Society	5			√		√		
SOC-G-SEC- A (1)	Techniques of Social Research		√	√	√				√
SOC-G-DSE-6- B(1)	Social Stratification	6	√						√
SOC-G-SEC -B (1)	Theory and Practice of Development					√		√	

DEPARTMENT OF ZOOLOGY

Program Outcome and Attainment: Honours & General – SUMMARY

- PSO1:** The students will acquire a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals. Students should be able to identify, classify and differentiate diverse chordates and non-chordates based on their morphological, anatomical and systemic organization.
- PSO2:** The students will understand the basic concepts of cell biology, genetics, animal physiology and biochemistry, ecology, evolutionary biology, developmental biology, immunology and biostatistics.
- PSO3:** The students will recognize how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. This will help them to gather knowledge on the physiological adaptations, development, reproduction and behavior of different forms of life.
- PSO4:** The students will be acquiring basic experimental skills in various techniques in the fields of cell biology and genetics, molecular biology; biotechnology and analytical biochemistry. These methodologies will provide an extra edge to our students, who wish to undertake higher studies.
- PSO5:** The skill enhancement courses like aquaculture, sericulture and apiculture will inculcate skills involved in rearing fish, bees and silk moth which would help them in generating self employment making them successful entrepreneurs. Acquired skills in medical diagnosis, hematology, histopathology, staining procedures etc. used in clinical and research laboratories will provide them opportunity to work in diagnostic or research laboratory.

Department of Zoology: Course Outcomes: Honours

Course Code	Course Name	Semester	Objective	Outcome
CC1	Non Chordates-1	1	An introduction to non-chordates	CO1. Came to know about the diversities of general characteristics, classifications, life cycle patterns of some representative animals. CO2. Hands on training on Identification, staining, mounting and slide preparation of some non-chordate specimens.
CC2	Molecular Biology		Introduction to the molecular biology	CO1: Introduction to the molecular structure of genetic materials and understood the mechanism of central dogma: replication, transcription, translation. CO2: Basic idea of gene regulation, post-translational modification and DNA repair. CO3: Theoretical knowledge about some molecular biology techniques like PCR, Western blot etc . CO4: Hands on training on DNA isolation, gel electrophoresis technique, DNA/RNA staining methodologies, histological staining of nucleic acids from prepared slides and identification of polytene and lampbrush chromosomes.
CC3	Non Chordates-2	2	Introduction to non chordates from Phylum Annelida to Hemichordates	CO1: A basic concept of evolution of coelom. CO2: General idea about the classification of non-chordates (from Annelida to Hemichordata). Understood some special features like metamerism in annelids, Metamorphosis in insects, etc. CO3: Hands on training on identification of a few selective animals from all groups, anatomical study of different systems by dissecting cockroaches.
CC4	Cell Biology		Introduction to the concept of cell structures	CO1: Introduction to the concept of cell structures like Plasma membrane, cell organelles, cytoskeleton. Acquired knowledge about the stages of cell cycle and cell signalling. CO2: Hands-on training in preparation of slides to study different stages of cell cycle like mitosis and meiosis and preparation of permanent slides of Barr Body and cell viability study.
CC5	Chordate	3	Introduction to chordates	CO1: Introduction to the concept of general characters and classification of chordates. CO2: Impart knowledge in comparative anatomy, development systems and very important phenomena in chordates like parental care in fishes and amphibians, poison apparatus of snakes, echolocation in bats etc. CO3: Hands on training in identification of some chordate specimens; Dissection of fishes to study their digestive and urogenital systems; an idea about the ethological study of any one animal for internal assessment.
CC6	Animal physiology		Introduction to different physiological systems of animal	CO1: An introduction to the tissue bone and cartilage of human being with elaborate knowledge of each. CO2: Learnt about the different physiological systems like nervous system, muscular system, reproductive system and endocrine system. CO3: Hands-on training in preparation of histological sections, their staining and identification.
CC7	Biochemistry		Introduction to different biomolecules, enzymes and different biochemical pathways related to animal science	CO1: Introduction to biomolecules like carbohydrates, proteins, lipids, amino acids, nucleic acids. CO2: Described the enzymes, mechanism of enzyme action and factors affecting the enzyme activity along with oxidative phosphorylation mechanism. CO3: Hands-on training in qualitative analysis of carbohydrates, proteins and lipids and quantitative analysis of proteins by Lowry method; Paper chromatography technique.
SEC (A) 1	Apiculture		Introduction to apiculture	CO1: Concept building on culture of bees, their biology, artificial rearing, their diseases and enemies and their economic importance.

Course Code	Course Name	Semester	Objective	Outcome
CC8	Comparative anatomy of vertebrates	4	Introduction to Vertebrate Anatomy	CO1: Comparative anatomical study of certain systems like integumentary system, digestive system, respiratory system, circulatory system, urino-genital system, nervous system and skeletal system. CO2: Identification of different types of scales of fish by model/photograph, comparative study with disarticulated skeleton of toad, pigeon and guinea pig. Basic knowledge about the comparative study of heart and brain with model or picture
CC9	Animal physiology		Introduction to different physiological systems of animal	CO1: Physiological aspects of the important life sustaining systems like digestive, respiratory, circulatory osmoregulatory and excretory systems. CO2: Demonstrated blood group, blood pressure of human and estimated haemoglobin in blood using haemoglobinometer ; Identified types of blood cells from human blood smear and haemolymph of cockroach.
CC10	Immunology		Introduction to Immune System of animal	CO1: Gives comprehensive idea on the immune system of our body encompassing knowledge on antigen-antibody, MHC, cytokines, complement system, hypersensitivity. CO2: Conceptualized the principle of vaccination. CO3: Demonstrated different lymphoid organs by picture/slides and hands-on training on immunological techniques like ELISA.
SEC (B) 1	Aquarium fish Keeping		Introduction to aquarium fish keeping	CO 1: Concept building on culture of aquarium fishes, their biology, artificial rearing, their diseases and enemies and their economic importance.
CC11	Ecology	5	Introduction to ecology and wildlife conservation	CO1: Acquired knowledge of ecology, population, community, eco-system, biogeochemical cycle and intraspecific relationships of animals CO2: Acquired knowledge of conservation, its strategies and wild-life protection act. CO3: Demonstrated population density from the community, and studied zooplankton and phytoplankton. CO4: Determine CO ₂ , O ₂ , pH and salinity from aquatic ecosystems. CO5: Submitted project on biodiversity after visiting any place of ecological importance.
CC12	Principle of Genetics		Introduction to genetics	CO1: Understood the Mendelian genetics and its extension. CO2: Acquired knowledge of linkage mapping, crossing over, linkage, mutation, sex determination. CO3: Understood different types of mutations, genetic defects, genetic materials, transposable elements. CO4: Identified chromosomal aberrations through photographs, analyzed inherited traits through pedigree charts and demonstrated chi-square test.
DSE A1	Parasitology		Introduction to animal parasites	CO1: Acquired knowledge on an overview of parasitism. CO2: Known morphology, life cycle, epidemiology, pathogenicity, diagnosis and treatment of certain protozoan, helminthes, nematodes, arthropod and vertebrate parasites causing direct or indirect harm to mankind. CO3: Identified different stages and adult parasites by slide/micro-photograph. CO4: Prepared and submitted project on vertebrate parasites.
DSE B1	Endocrinology		Introduction to vertebrate hormone and mode of action	CO1: Acquired knowledge on role of hormones and their controlled secretion. CO2: Known about some vertebrate hormones CO3: Demonstrated dissection of endocrine glands in laboratory bred rat . CO4: Studied and prepared (by tissue fixation, microtomy and staining) permanent histological slides.
CC13	Developmental Biology		Introduction to animal developmental processes	CO1: A brief account on early, late and post embryonic development. CO3: Concept building on IVF, applications of stem cell therapy.

Course Code	Course Name	Semester	Objective	Outcome
				CO4: Identification of developmental stages of chick embryo, drosophila life cycle; placental sections and invertebrate larva.
CC14	Evolutionary Biology		Introduction To Evolutionary Biology	CO1: Introduction on the concept of origin of life and RNA World Hypothesis. CO2: Knowledge on evolutionary concepts, geological time scale, natural selection, species and speciation. CO3: Idea of population genetics, extinction. CO4: Known phylogenetic tree concept and construction using parsimony convergent and divergent evolution. CO5: Studied fossils from models/pictures and homology and analogy from suitable specimens.
DSE A2	Animal Biotechnology		Introduction to different techniques of animal biotechnology	CO1: Studied different techniques of Gene Manipulation, and genetic diseases. CO2: Acquired knowledge on certain molecular biology techniques and cell culture as well as their application. CO3: Understood concept of Dolly and Polly cloning, and gene therapy. CO4: Hands on training on certain techniques like genomic and plasmid DNA isolation, preparation of culture media, packing etc CO5: Demonstrated techniques like Western Blot, Southern Hybridization PCR etc.
DSE B1	Animal Behavior and Chronobiology		Introduction to ethology and biological rhythms	CO1: Concept building on patterns of behaviour, social and sexual behaviour and chronobiology and biological rhythm. CO2: Idea of different types of rhythms, biological clock, bird migration, role of melatonin etc. CO3: Hands-on training in habitat and behavioural study; Idea on preparation of comprehensive ethograms.

Department of Zoology: Course Outcomes: General

Course Code	Course Name	Semester	Objective	Outcome
CC1	Animal diversity	1	Introduction to chordates and non chordates	CO1: Introduction to the vast diversity about general characteristics, classification, life-cycle pattern of representative animals of non-chordates and chordates. CO3: Hand-on training in identification of some non-chordates and chordate specimens. CO4: Hands-on training in dissection of some systems of cockroach.
CC2	Comparative anatomy and Developmental Biology	2	Introduction to anatomy of vertebrate animal and their developmental stages	CO1: Introduction to the different physiological systems like integumentary system, digestive system, respiratory system, circulatory system, urino-genital system. CO2: Known about stages and certain important features of early and late embryonic development. CO3: Hand-on training in identification of different bones, histological sections and larval stages.
CC3	Physiology and Biochemistry	3	Introduction to different physiological systems of animal and different biomolecules, enzymes and different biochemical pathways related to animal science	CO1: Introduction to the different physiological systems like digestive, nervous, respiratory, cardiovascular, excretory, reproductive and endocrine systems. CO2: Attained the knowledge of macromolecules such as carbohydrates, protein and fat, their types and significance and metabolism. CO3: Described the enzymes, classification and factors affecting the enzyme activity . CO4: Idea about the different histological sections. CO5: Ability to quantify carbohydrates.
SEC A 1	Apiculture		Introduction to apiculture	CO1: Concept building on culture of bees, their biology, artificial rearing, their diseases and enemies and their economic importance
CC4	Genetics and Evolutionary Biology	4	Introduction to genetics and evolutionary biology	CO1: Introduction to Mendelian genetics and its extension, chromosomes, mutation, sex-determination. CO2: Understood the theories of evolution, process of evolutionary changes and speciation. Co3: Analysis for genetic ratio test, identification of chromosomal aberration, idea of phylogenetic analysis.
SEC B 2	Aquarium fish keeping		Introduction to aquarium fish keeping	CO1: Concept building on culture of aquarium fishes, their biology, artificial rearing, their diseases and enemies and their economic importance.
DSEA1	Applied Zoology	5	Introduction to animal parasites, pests and animal husbandry	CO1: Acquired knowledge on an overview of parasitism. CO2: Known morphology, life cycle, and economic/medical importance of certain protozoan, helminthic, nematode, arthropod and vertebrate parasites causing direct or indirect harm to mankind. CO3: Gathered knowledge about some very important features of animal husbandry, poultry farming and fish technology. CO4: Visited to a poultry farm and submitted project report on it.
SEC A 3	Sericulture		Introduction to sericulture	CO1: Concept building on culture of silk worms, their biology, artificial rearing, their diseases and enemies and their economic importance.
DSE B2	Ecology and wild life Biology	6	Introduction to ecology and wildlife	CO1: Acquired knowledge of ecosystem, food chain, energy flow and productivity and Imparted knowledge of habitat ecology. CO2: Understood concepts of population and community characteristics. CO3: Acquired knowledge of wild life conservation, its strategies and wild-life protection act.
SEC B 4	Medical Diagnosis		Study of different diagnostic methods	CO1: Concept building on diagnostics methods used for analysis of blood, urine, diseases etc.

Department of Zoology: Mapping Program Outcome (PO) and Course Outcome (CO)

Course Code	Course Name	Semester	PO1	PO2	PO3	PO4	PO5	PO6	PO7
			Critical Thinking	Effective Communication	Social Interaction	Effective Citizenship	Ethics	Environment and Sustainability	Self-directed and Life-long Learning
Honours									
CC1	Non Chordates-1	1						√	
CC2	Molecular Biology		√					√	
CC3	Non Chordates-2	2						√	
CC4	Cell Biology		√						
CC5	Chordate	3						√	
CC6	Animal physiology							√	
CC7	Biochemistry		√						
SEC (A) 1	Apiculture							√	√
CC8	Comparative anatomy of vertebrates	4	√						
CC9	Animal physiology							√	
CC10	Immunology		√						
SEC (B) 1	Aquarium fish Keeping							√	√
CC11	Ecology	5			√			√	
CC12	Principle of Genetics		√						
DSE A1	Parasitology		√		√				√
DSE B1	Endocrinology		√						√
CC13	Developmental Biology	6	√				√		
CC14	Evolutionary Biology		√		√				
DSE A2	Animal Biotechnology		√				√	√	√
DSE B1	Animal Behavior and Chronobiology		√		√				
General									
CC1	Animal diversity	1						√	
CC2	Comparative anatomy and Developmental Biology	2	√				√		
CC3	Physiology and Biochemistry	3	√					√	
SEC A 1	Apiculture							√	√
CC4	Genetics and Evolutionary Biology	4	√						
SEC B 2	Aquarium fish keeping								√
DSEA1	Applied Zoology	5							√
SEC A 3	Sericulture								√
DSE B2	Ecology and wild life Biology	6	√		√			√	
SEC B 4	Medical Diagnosis		√						√