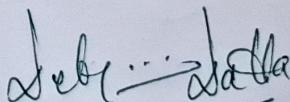


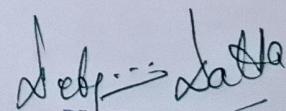
**BUDGE BUDGE COLLEGE
PROGRAMME AND COURSE OUTCOMES
CURRICULUM & CREDIT FRAMEWORK (CCF, 2022)
UNDER NEP, 2000**



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PROGRAMME OUTCOMES (POs) FOR GENERAL UNDERGRADUATE PROGRAMMES

Programme Outcome	Operational Conceptual Framework
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 life-long learning in the broadest context socio-technological changes.



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DEPARTMENT OF BENGALI

Four-year B.A. Bengali (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- 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 colleges and schools at the Primary, Secondary and Higher Secondary levels and other competitive exams.
- Scope of social, community and rural engagement through involvement with government institutions and NGOs.
- 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.

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**Course Outcomes (COs): Four-year B.A. Bengali (Honours & Honours with Research) Programme &
Three-year B.A. (Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
BNG-H- DSCC-1-1 / BNG-MD-CC1-1	History of Bengali Literature till 1800 AD	1	Origin, evolution and development of Bengali Literature and Culture in the pre-19 th century.	Various streams of the history of Bengali literature from the very beginning up to 1800 A.D.
BNG-H-SEC-1-1 / BNG-MD-SEC-1-1	Printing and Publishing		Printing and Publishing related various intricacies.	Manuscript preparation, syntax and semantics of Bengali Language, proof correction and other printing related issues so that they can also opt for their career in printing and publication sector in future.
BNG-MD-IDC-1-1 (Major & MDC)	Fiction and Drama		Extensive range and influence of Bengali Literature in the fields of History, Philosophy, Socio-Political studies, Science etc.	Bengali fictional studies and the far reaching effects of literary thinking in other fields of study.
BNG-H-CC-2-2/ BNG-MD-CC2-2	Descriptive Linguistics and Bengali Language-1	2	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.	The basic concepts of Bengali language and linguistics.
BNG-H-SEC-2-2	Applied Bengali 1		Style and techniques of letter writing as well as professional skills such as translation, book criticism and content writing.	Letter writing, content writing, recitation, translation and book criticism.

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**Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.A. Bengali (Honours & Honours with Research)
Programme & Three-year B.A. (Multidisciplinary) Programme**

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
BNG-H- DS CC-1-1/ BNG-MD-CC1-1	History of Bengali Literature till 1800 AD	1	√	√	√	√	√	√	√
BNG-H- SEC-1-1/ BNG-MD-SEC-1-1	Printing and Publishing 1			√	√	√	√		√
BNG-MD-IDC-1-1 (Major & MDC)	Fiction and Drama		√	√	√		√		√
BNG-H- CC-2-2/ BNG-MD-CC2-2	Descriptive Linguistics and Bengali Language-1	2	√	√	√	√	√	√	√
BNG-H- SEC-2-2	Applied Bengali 1		√	√	√	√	√	√	√

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DEPARTMENT OF BOTANY

Four-year B.Sc. Botany (Honours & Honours with Research) Programme & Three-year B.Sc. Multidisciplinary (MDC) Programme

Programme Specific Outcomes (PSOs)

The programme will increase the understanding of the students about the structure, role, life cycle, identification, classification and diversity and gain knowledge of different groups of plants viz., Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms and the utility of plant resources belonging to these groups. The programme will increase the understanding of the phytogeographical regions of India and different vegetation types and scope and importance of plant populations, communities, ecosystem services. The programme also will provide concepts of carbon sequestration. One can recognize impact of plants on socioeconomic aspects of life. Understand the plants role in human welfare. Overall, this programme would educate the subject experts, common people, policy makers, administrators and all the stakeholders on agricultural production, sustainable development. Develop the skills for employment or entrepreneurship.

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Course Outcomes (COs): Four-year B.Sc. Botany (Honours & Honours with Research) Programme				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding....
BOT-H-CC1-1-Th	Plant Diversity Theory	1	To teach students about basics and some details of primary characteristics of different groups of plants and their importance in earth's sustainability.	Students should gather knowledge on structure, functions of and ecosystem services on Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.
BOT-H-CC1-1-P	Plant Diversity Practical		Best possible hands-on training on preparation of specimens and observation of structure of all the above plant groups.	Students should learn about diversity, structure and identification of all the plant groups in practical classes as well as in field studies.
BOT-H-SEC-1-Th	Mushroom Cultivation Technology Theory		To guide students about edible and poisonous mushrooms, their cultivation technology and nutritional importance.	The course will enable the students to cultivate edible mushrooms, earn livelihood by selling and entrepreneurship.
BOT-H-SEC-1-P	Mushroom Cultivation Technology Practical		To train about spawn preparation. Spawning and mushroom tissue culture and cultivation.	The course will enable the students to cultivate edible mushrooms, earn livelihood by this technology.
BOT-H-CC2-2-Th	Plant Systematics Theory	2	To mentor students on structural and functional variations and classification and systematic position of Angiosperms	Students have understood about the components of systematics, system of classification and systematic study of various angiospermic taxa.
BOT-H-CC2-2-P	Plant Systematics Practical		Students to be trained to work out external and internal structures of Angiosperms in practical classes and during field studies	Students are trained about the structures of Angiosperms in practical classes, during field studies and preparation of Herbarium specimens from the collected plants.
BOT-H-SEC-2-Th	Biofertilizers and Biopesticides Theory		To share knowledge on various Biofertilizers and Biopesticides, their distinctive features and their applications in agriculture.	Students have understood how to grow Biofertilizers and Biopesticides and their application procedures in agriculture
BOT-H-SEC-2-P	Biofertilizers and Biopesticides Practical		To make pupils structures of Biofertilizers and Biopesticides under microscope their distinctive features and their applications in agriculture.	Pupils are practically trained on morphological structures of Biofertilizers and Biopesticides and how to apply them in agriculture.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme

Course Code for Major, SEC	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
BOT-MD-CC1-1-Th	Plant Diversity Theory	1	To teach students about basics and some details of primary characteristics of different groups of plants and their importance in earth's sustainability.	Students should gather knowledge on structure, functions of and ecosystem services on Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.
BOT-MD-CC1-1-P	Plant Diversity Practical		Best possible hands-on training on preparation of specimens and observation of structure of all the above plant groups.	Students should learn about diversity, structure and identification of all the plant groups in practical classes as well as in field studies.
BOT-MD-CC2-2-Th	Plant Systematics Theory	2	To mentor students on structural and functional variations and classification and systematic position of Angiosperms	Students have understood about the components of systematics, system of classification and systematic study of various angiospermic taxa.
BOT-MD-CC2-2-P	Plant Systematics Practical		Students to be trained to work out external and internal structures of Angiosperms in practical classes and during field studies	Students are trained about the structures of Angiosperms in practical classes, during field studies and preparation of Herbarium specimens from the collected plants.
BOT-MD-SEC-2-Th	Mushroom Cultivation Technology Theory		To guide students about edible and poisonous mushrooms, their cultivation technology and nutritional importance.	The course will enable the students to cultivate edible mushrooms, earn livelihood by selling and entrepreneurship.
BOT-MD-SEC-2-P	Mushroom Cultivation Technology Practical		To train about spawn preparation. Spawning and mushroom tissue culture and cultivation.	The course will enable the students to cultivate edible mushrooms, earn livelihood by this technology.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs)

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
Four-year B.Sc. Botany (Honours & Honours with Research) Programme									
BOT-H-CC1-1-Th	Plant Diversity Theory	1	√	√				√	√
BOT-H-CC1-1-P	Plant Diversity Practical		√	√	√			√	√
BOT-H-SEC-1-Th	Mushroom Cultivation Technology Theory		√		√			√	√
BOT-H-SEC-1-P	Mushroom Cultivation Technology Practical		√		√				√
BOT-H-CC2-2-Th	Plant Systematics Theory	2	√	√			√	√	√
BOT-H-CC2-2-P	Plant Systematics Practical			√	√			√	√
BOT-H-SEC-2-Th	Biofertilizers and Biopesticides Theory		√						√
BOT-H-SEC-2-P	Biofertilizers and Biopesticides Practical		√	√	√		√	√	√

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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

Three-year B.Sc. (Multidisciplinary) Programme

BOT-MD-CC1-1-Th	Plant Diversity Theory	1	√	√				√	√
BOT-MD-CC1-1-P	Plant Diversity Practical		√	√	√			√	√
BOT-MD-CC2-2-Th	Plant Systematics Theory	2	√	√			√	√	√
BOT-MD-CC2-2-P	Plant Systematics Practical			√	√			√	√
BOT-MD-SEC-2-Th	Mushroom Cultivation Technology Theory	2	√		√			√	√
BOT-MD-SEC-2-P	Mushroom Cultivation Technology Practical		√		√				√

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DEPARTMENT OF CHEMISTRY

Three-year B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- Students will be able to understand basic concept in different field of chemistry
- Students will be able to solve chemistry related problems with logical conclusion.
- Students will be able to get good laboratory practice with proper safety.
- Students will be able to demonstrate experimental techniques and methods for chemical analysis, synthesis and data collection and interpretation.
- Students will be able to create an awareness of impact of chemistry on environment, society and development outside scientific community.
- Students will be able to prepare themselves for a successful carrier in industry.
- The programme will motivate the students for higher education.
- To develop an opportunity to work in entire disciplinary groups.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Chemistry]				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
CHEM-MD-CC1-1-Th	Chemistry MDC- I	1	<ul style="list-style-type: none"> • Extra nuclear structure of atoms and • Periodicity, Basics of Organic Chemistry • Bonding and Physical Properties , • Stereochemistry – I, • Thermodynamics – I, • Chemical Kinetics-I. 	<ul style="list-style-type: none"> • Extra nuclear structure of atom and basic idea of Quantum Chemistry and its application and modern periodic table, physical and chemical properties of elements along a group or a period, factors influencing those properties, relativistic effects and inert pair effect. • Basic principles, reaction mechanism and fundamental factors that control properties of organic compounds. • Chemical bonding (ionic and covalent) and basic theories, rules which determine the nature of bonding, MOT,LCAO. • Stereochemistry, chirality of organic molecules. • Basic concepts of Thermodynamic properties, nature of changes, first law of thermodynamics and its application in various systems, evaluation of various thermodynamic properties such as heat, mechanical work, change in enthalpy, change in internal energy of a system, thermochemistry of various chemical processes. • Basic concepts regarding rate of chemical reaction, measurement of order and rate of reaction, dependence of rate constant and rate of reaction on temperature, catalysis, activation energy of a reaction, parallel and consecutive reaction.
CHEM-MD-CC1-1-P	Chemistry MDC- I		<ul style="list-style-type: none"> • Acid-Base Titration, Oxidation- • Reduction Titrimetry. 	<ul style="list-style-type: none"> • Estimation of ins or salts by acid base titration method and oxidation – reduction titration method .
CHEM-MD-SEC-Th	CHEMISTRY IN DAILY LIFE	1 / 2	<ul style="list-style-type: none"> • Dairy Products • Food additives, adulterants, and contaminants • Artificial food colorants 	<ul style="list-style-type: none"> • Composition of milk, milk products, analysis of fat content and minerals in milk and butter, estimation of added water in milk, analysis of caffeine in coffee and tea , methyl alcohol in alcoholic beverages, detection of adulterant .

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Chemistry]				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
			<ul style="list-style-type: none"> Vitamins Oils and fats Soaps & Detergents Chemical and Renewable Energy Sources Polymers 	<ul style="list-style-type: none"> Food preservatives, artificial sweeteners and flavours . Coal tar dyes and non-permitted colours and metallic salts. Classification, nomenclature, source, deficiency diseases and structures of some vitamins (A1, B1, C, D, E and K1) Composition of edible oils, detection of purity, rancidity, tests for adulterants. Definition, classification, manufacturing, composition and uses of soaps and detergents. Priniples and application of primary and secondary batteries, fuel cells, future energy storers, solar cells . Classification and characteristics, applications of polymers in various fields. Plastic waste management and strategies for development of environment – friendly polymers.
CHEM-MD-CC2-2-Th	Chemistry MDC- II	2	<ul style="list-style-type: none"> Kinetic Theory and Gaseous state, Chemical Bonding – I , Stereochemistry – II, General Treatment of Reaction Mechanism-I. 	<ul style="list-style-type: none"> Concept of pressure, temperature, average velocity, r.m.s velocity etc. of gas molecules and able to derive the expressions of properties using kinetic theory of gas. Deviation of properties of real gases from ideal gas and concept of equation of state and virial equation. Idea about ionic and covalent bond, laws, rules and equations for formation of chemical bonds, hybridisation and dipole moment of molecules. Chirotopicity and its relation with stereogenicity, R/S,E/Z isomerism, erythro/threo and meso nomenclature optical activity, racemisation etc. Reactive intermediates like carbocataons, carbanions, carbon radicals- their generation , stability, structure and behaviour as intermediate.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Chemistry]				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
				<ul style="list-style-type: none"> Reaction thermodynamics and related terms like enthalpy, entropy, free energy. Reaction kinetics for one step and two step reactions, Hammond's postulate. Various substitution reaction and their mechanism.
CHEM-MD-CC2-2-P	Chemistry MDC-II		<ul style="list-style-type: none"> Iodo-/ Iodimetric Titrations , Estimation of metal content in some selective samples. 	<ul style="list-style-type: none"> Estimation of percentage of chlorine in bleaching powder, vitamin C and estimation of metals (e.g. Cu in brass, Cr and Mn in steel, Fe in cement) by iodometric and iodimetric titration method.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Chemistry]

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
CHEM-MD-CC1-1-Th	Chemistry MDC- I	1	✓	✓		✓	✓	✓	✓
CHEM-MD-CC1-1-P	Chemistry MDC- I		✓	✓	✓	✓	✓	✓	✓
CHEM-MD-SEC-Th	CHEMISTRY IN DAILY LIFE	1 / 2	✓	✓		✓	✓	✓	✓
CHEM-MD-CC2-2-Th	Chemistry MDC- II	2	✓	✓		✓	✓	✓	✓
	Chemistry MDC- II		✓	✓	✓	✓		✓	✓

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DEPARTMENT OF COMMERCE

Four-year B.Com. (Honours & Honours with Research) Programme & Three-year B.Com. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

Upon completion of the 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.

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**Course Outcomes (COs): Four-year B.Com. (Honours & Honours with Research) Programme & Three-year B.Com.
(Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
Major Paper 1	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.
Minor Paper 1	Principles and Practice 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.
(IDC/MDC) Paper 1	Microeconomics		To provide the concepts of microeconomics dealing with consumer behaviour and the supply side of the market through firms' production and cost behaviour.	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.
SEC Paper 1	Entrepreneurship Development		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.
Major Paper 2	Cost 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.

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**Course Outcomes (COs): Four-year B.Com. (Honours & Honours with Research) Programme & Three-year B.Com.
(Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
Minor Paper 2	Marketing Management and Human Resource Management		To provide basic knowledge of various concepts, principles, tools and marketing techniques.	Upon completing the course, the students will acquire basic knowledge of various concepts, principles, tools and marketing techniques.
(IDC/MDC) Paper 2	Macroeconomics		To provide basic knowledge of concepts and principles of managing an organisation's human resources.	Upon completing the course, students will comprehend the fundamental concepts and principles of human resource management.
SEC Paper 2	Information Technology & Its Application in Business		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.
			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.

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**Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.Com. (Honours & Honours with Research) Programme
& Three-year B.Com. (Multidisciplinary) Programme**

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
Major Paper 1	Financial Accounting-I	1	✓	✓				✓	✓
Minor Paper 1	Principles of Management			✓	✓	✓	✓		✓
(IDC/MDC) Paper 1	Microeconomics		✓				✓		✓
SEC Paper 1	Entrepreneurship Development			✓	✓	✓	✓		✓
Major Paper 2	Cost Accounting-I	2	✓	✓				✓	✓
Minor Paper 2	Marketing Management &			✓	✓	✓	✓		✓
(IDC/MDC) Paper 2	Macroeconomics		✓				✓		✓
SEC Paper 2	Information Technology & Its Application in Business		✓	✓					✓

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DEPARTMENT OF ECONOMICS

Four-year B.Sc. Economics (Honours & Honours with Research) Programme & Three-year B.A./B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSO)

- PSO1 – The students learn about the basic & advanced subject matters of economics like scope, methodologies and the basic principles of microeconomics, macroeconomics, Indian economy, international economics & managerial economics.
- PSO2 – The students learn about the mathematical preliminaries and higher applications which are highly important to understand the concept of economics.
- PSO3 – The students learn about the theories and the applications of consumer behaviour, production & cost, the firm & different market structure.
- PSO4 – The students learn about the overviews and the techniques of the representation of various data. Moreover they learn the theories and applications of descriptive statistics, probability, different types of discrete and continuous probability distributions, statistical sampling and statistical inference in detail.
- PSO5 – The students learn about the different aspects of rural development, the panchayets and their roles in rural development, the rural credit system & the roles of self-help groups in the rural development and finally the critical evaluation of some selected government programs of rural development like MGNREGA, NRHM, PMGSY etc.
- PSO6 – The students 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. They also learn about the various steps of empirical research, the basic commands in statistical packages like STATA & R, the regression diagnostics & specification errors and finally some applications of regression analysis on cross section, time series and panel data.
- PSO7 – The students learn about the technique of locating the basic issue, theme-based literature survey, design of objectives & sample frame, role of random numbers, preparation of questionnaire, data entry after field survey and tabulation & representation of data. In the second part the student will learn about the concept of theoretical and empirical economics, the illustration of theoretical & empirical research work, the role of footnote and endnote in the research paper and finally bibliography, reference list & citation
- PSO8 – The students learn about Comparative Economic Development, Financial Economics, Public Economics, Environmental Economics, Money and Financial Markets & Development Economics.

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Course Outcomes (COs): Four-year B.Sc. Economics (Honours & Honours with Research) Programme

Course Code	Course Name	Semester	Objective	Outcome
ECON-H-CC1-1-Th	Microeconomics (I)	1	Learners will be able to understand the subject matter of economics through basic concepts and theories related to the behaviour of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies.	Develops economic thinking and skills of flexibility, problem solving ability and analysis of microeconomic economic issues
ECON-H-SEC1-1-Th	Introductory Statistics and Applications (I)		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	Helps to develop the statistical skills of an economist and introduce the students to data interpretation.
ECON-H-CC2-2-Th	Macroeconomics (I)	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.
ECON-H-SEC2-2-Th	Introductory Statistics and Applications (II)		Learners will be able to understand the different types of data and data collection procedure.	Characterise different type of data and able to collecting data through survey
ECON-H-SEC2-2-P	Introductory Statistics and Applications (II)		Learners will be able to practically use the statistical tools and methods through Microsoft Excel.	This paper helps the students to implement statistical tools and methods depending on their requirement
ECON-H-IDC-1/2/3-Th	Elementary Economics	1/2/3	Learners will be able to understand and gain knowledge on the basic concepts of microeconomic, macroeconomic, development economics and Indian economics.	Explains the basic concepts of microeconomics and macroeconomics like-demand, supply, market mechanism, national income, inflation, fiscal and monetary policy etc. along with, concept and measurement of economic development and an overview on Indian economy.

Objectives

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Course Outcomes (COs): Three-year B.A./B.Sc. (Multidisciplinary) Programme

Course Code	Course Name	Semester	Objective	Outcome
ECON-MD-CC1-1-Th	Microeconomics (I)	1	Learners will be able to understand the subject matter of economics through basic concepts and theories related to the behaviour of economic agents, markets, industry and firm structures, legal institutions, social norms, and government policies.	Develops economic thinking and skills of flexibility, problem solving ability and analysis of microeconomic economic issues
ECON-MD-CC2-2-Th	Macroeconomics (I)	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.
ECON-MD-SEC1 (A)-1-Th ECON-MD-SEC2 (A)-2-Th ECON-MD-SEC3 (A)-3-Th	Economic Data Analysis and Report Writing (EDARW)	1/2/3	To explore different procedure to represent the data, along with use of descriptive statistics in data analysis and based on the data analysis writing an appropriate report.	Evaluates, analyse and represent data properly and made proper report
ECON-MD-SEC1 (B)-1-Th ECON-MD-SEC2 (B)-2-Th ECON-MD-SEC3 (B)-3-Th	Entrepreneurship and Development (ED)	1/2/3	Learners will be able to understand the importance of entrepreneurship in economic development, types of entrepreneurs, finance methods, growth strategies etc.	Evaluate current condition of entrepreneurship in India and how it can be established.

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**Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.Sc. Economics (Honours & Honours with Research)
Programme & Three-year B.A./B.Sc. (Multidisciplinary) Programme**

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
ECON-H-CC1-1-Th / ECON-MD-CC1-1-Th	Microeconomics (I)	1	√	√		√			√
ECON-H-SEC1-1-Th	Introductory Statistics and Applications (I)		√	√			√		√
ECON-H-CC2-2-Th / ECON-MD-CC2-2-Th	Macroeconomics (I)	2	√	√		√			√
ECON-H-SEC2-2-P	Introductory Statistics and Applications (II)		√	√			√		√
ECON-H-IDC-1/2/3-Th	Elementary Economics	1/2/3	√	√		√			√
ECON-H-SEC2-2-Th	Introductory Statistics and Applications (II)	2	√	√			√		√
ECON-MD-SEC1 (A)-1-Th / ECON-MD-SEC2 (A)-2-Th / ECON-MD-SEC3 (A)-3-Th /	Economic Data Analysis and Report Writing (EDARW)	1/2/3	√	√		√	√		√
ECON-MD-SEC1 (B)-1-Th / ECON-MD-SEC2 (B)-2-Th / ECON-MD-SEC3 (B)-3-Th/	Entrepreneurship and Development (ED)		√	√	√	√			√

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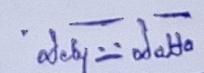
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DEPARTMENT OF EDUCATION

Four-year B.A. Education (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- 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.



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Course Outcomes (COs): Four-year B.A. Education (Honours & Honours with Research) Programme				
Course Code	Course Name	Semester	Objective	Outcome
EDC/H/CC – 1/1 (For Major)	Introduction and Philosophical Foundation of 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 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.
EDC/H/IDC (Semester 1)	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 to understand the salient features of education in India related to inclusive education
EDC/H/SEC/1/1 (Semester – 1)	Communication Skill		<ul style="list-style-type: none"> To understand the basic elements of Communication To acquire Listening Skills To acquire Speaking Skills 	The outcome of the course is to understand the salient features of education in India related to communication
EDC/H/CC/2/2 (For Major)	Psychological Foundation Of Education	2	<ul style="list-style-type: none"> To understand the meaning of Psychology and be acquainted with its different aspects. To know the patterns of different aspects of human development and relate this knowledge with education. To be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition. 	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.
EDC/H/IDC	Inclusive Education		<ul style="list-style-type: none"> Understand the meaning of Inclusion and exclusion Know the types of exclusion and their causes 	The outcome of the course is to understand the salient features of education in India related to inclusive education

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Course Outcomes (COs): Four-year B.A. Education (Honours & Honours with Research) Programme				
Course Code	Course Name	Semester	Objective	Outcome
EDC/H/SEC/2/2	Aspect of Democratic Citizenship	2	<ul style="list-style-type: none"> • Know how to bring about inclusion in different spheres • Have an idea about their duties as citizens • Have an idea about their rights as citizens • Have an idea about child violence and child rights • Have an idea about domestic violence and domestic rights 	The outcome of the course is to understand the rights and duties of citizens
EDC/H/SEC/2/2	Digital Empowerment	2	<ul style="list-style-type: none"> • Understand the fundamentals of digital technologies and their impact on society • Enhance online communication and collaboration skills • Promote digital citizenship and responsible online behavior • Gain awareness of digital security risks and implement best practices • Explore ethical considerations in the use of digital technologies 	The outcome of the course is to Understand the fundamentals of digital technologies and their impact on society

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Course Outcome: Three-year B.A. (Multidisciplinary) Programme

Course Code	Course Name	Semester	Objective	Outcome
EDC/M/1/1 (Semester -1)	Introduction and Philosophical Foundation of 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 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.
EDC/M/1/1 (Semester -2)	Psychological Foundation of Education	2	<ul style="list-style-type: none"> • To understand the meaning of Psychology and be acquainted with its different aspects. • To know the patterns of different aspects of human development and relate this knowledge with education. • To be acquainted with the cognitive approach of development and thus to understand the process and factors of cognition. 	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.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs)

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
Four-year B.A. Education (Honours & Honours with Research) Programme									
EDC/H/CC – 1/1	Introduction and Philosophical Foundation of Education	1	√	√	√		√		
	Inclusive Education		√		√	√			√
EDC/H/SEC/1/1	Communication Skill	2	√	√	√	√		√	√
EDC/H/CC/2/2	Psychological Foundation of Education		√		√	√	√		√
EDC/H/IDC	Inclusive Education		√	√	√	√	√	√	√
EDC/H/SEC/2/2	Aspect of Democratic Citizenship			√	√	√	√		
EDC/H/SEC/2/2	Digital Empowerment		√	√	√		√		√
Three-year B.A. (Multidisciplinary) Programme									
EDC/M/1/1 (Semester -1)	Introduction and Philosophical Foundation of Education	1	√		√	√			√
EDC/M/1/1 (Semester -2)	Psychological Foundation of Education	2	√	√	√	√	√	√	√

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DEPARTMENT OF ENGLISH

Four-year B.A. English (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

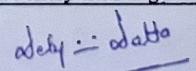
After successful completion of Four-year / Three-year Programme in English a student should be able to achieve the following:	
PSO1	Develops critical thinking and analytical skills: Exposure to a large spectrum of literary materials to know how a particular piece of work is a reflection of the historical, sociological, cultural, political, and even the psychological ethos of its time.
PSO2	Conceptualising societal institutions and power structures: Helps recognising the intersection between gender, socio-cultural identities and power structures which impact the material realities of women's lives.
PSO3	Improves verbal and non-verbal communication: Students are exposed to a large variety of literature in English language as well as multimedia for reading, writing and analysis which strengthen the students' grammatical capabilities and communication skill.
PSO4	Research Aptitude: Helps in gathering in-depth knowledge through the study of literary history, theory and criticism, honing intellectual faculties.
PSO5	Higher Education & Employability: Curriculum offers awareness for students to enhance their interest in specialised areas of knowledge for pursuit of higher education and enables better access to jobs in public and private sectors.

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Course Outcomes: CCF: Four-year B.A. English (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
DSC 1	Introduction to English Literature (Poetry)	1	<ul style="list-style-type: none"> • To enhance the level of literary and aesthetic experience of students and to help them respond creatively. • To help them read, critically analyse and appreciate poetry. 	<ul style="list-style-type: none"> • Form a better understanding of poetry in general. • Familiarize the students with the genre of poetry itself and all the key concepts and figures of speech associated with the genre. • To ruminate on how poetry in English has evolved over the ages, and try to recognize the specific socio-cultural factors responsible for such an evolution
SEC 1	Business Writing		<ul style="list-style-type: none"> • To provide the students with an ability to build and enrich their communication skills. • To help them master writing techniques to meet academic and professional needs. 	<ul style="list-style-type: none"> • Write the basic features of effective Business Communication • Write business letters, meeting minutes, e-correspondence & CV.
AEC (MAJOR+MDC)	Compulsory English		<ul style="list-style-type: none"> • To help them think and write imaginatively and critically 	<ul style="list-style-type: none"> • Give an extended idea of the range of English literature to our students. • Form a better understanding of English literary texts in general
DSC 2	Introduction to English Literature (Prose)	2	<ul style="list-style-type: none"> • To enhance the level of literary and aesthetic experience of students and to help them respond creatively • To sensitize students to the language, forms and types of, fiction, prose 	<ul style="list-style-type: none"> • To form a better understanding of prose in general. • Familiarize students with the genre of prose and all the key concepts and terms associated with the genre. • To ruminate on how the English prose has evolved over the ages, and what factors made such an evolution happen. • Introduce some of the most important prose writers in English to our students.
SEC	Digital Empowerment		<ul style="list-style-type: none"> • To equip students to utilize the digital knowledge resources effectively for their chosen fields of study 	<ul style="list-style-type: none"> • Equips students with the knowledge and skills to navigate our increasingly digitized world
AEC (MAJOR+MDC)	Compulsory English		<ul style="list-style-type: none"> • To help them think and write imaginatively and critically 	<ul style="list-style-type: none"> • Give an extended idea of the range of English literature to our students. • Form a better understanding of English literary texts in general


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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.A. English (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

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
DSC 1	Introduction to English Literature (Poetry)	1	√	√	√		√		√
SEC 1	Business Writing			√	√		√		√
AEC (MAJOR+MDC)	Compulsory English		√	√	√		√		√
DSC 2	Introduction to English Literature (Prose)	2	√	√	√		√		√
SEC	Digital Empowerment		√	√	√		√		√
AEC (MAJOR+MDC)	Compulsory English		√	√	√		√		√

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DEPARTMENT OF FOOD AND NUTRITION

Four-year B.Sc. (Honours & Honours with Research) Programme

Programme Specific Outcomes (PSOs)

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.

Course Outcomes (COs): Four-year B.Sc. (Honours & Honours with Research) Programme				
Course Code	Course Name	Semester	Objective	Outcome
DSC/Core (Major)-C 1	BASIC FOOD SCIENCE I	1	To learn basic concepts of nutrition and macronutrients	The students will be know the definition, classification, structure and properties of macronutrients such as carbohydrates, proteins, lipids and dietary fibres.. This course will help the students to acquire vivid knowledge about the practical methods that helps to identify and differentiate among the various types of mono, di and polysaccharides, protein and glycerol.
SEC 1	NUTRITION AND HEALTH EDUCATION		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 and channels of nutrition education will help in effective delivering of the message in the community. It also helps to evaluate nutrition and health education programs.

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Course Outcomes (COs): Four-year B.Sc. (Honours & Honours with Research) Programme				
Course Code	Course Name	Semester	Objective	Outcome
DSC/Core (Major) C-2	BASIC FOOD SCIENCE-II	2	To study the significance of micronutrients especially minerals and vitamins 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, 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.
SEC 2	NUTRITIONAL EPIDEMIOLOGY & PUBLIC HEALTH		To understand the epidemiology and public 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.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.Sc. (Honours & Honours with Research) Programme

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
DSC/Core (Major)-C 1	BASIC FOOD SCIENCE I	1	✓	✓	✓	✓	✓	✓	✓
SEC 1	NUTRITION AND HEALTH EDUCATION		✓	✓	✓	✓	✓	✓	✓
DSC/Core (Major) C-2	BASIC FOOD SCIENCE-II	2	✓	✓	✓	✓	✓	✓	✓
SEC 2	NUTRITIONAL EPIDEMIOLOGY & PUBLIC HEALTH		✓	✓	✓	✓	✓	✓	✓

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DEPARTMENT OF GEOGRAPHY

Four-year B.A./B.Sc. Geography (Honours & Honours with Research) Programme & Three-year B.A./B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- Geography Major and MDC courses at the preliminary stage provide a basic theoretical knowledge and foundation as well as practical hands-on training regarding analysis of spatial processes.
- They focus on providing insights regarding space, man-nature interaction and cartography which are the essence of Geography to analysis of physical-cultural-economic-demographic landscape
- It also focuses on grooming in the use of spatial statistics, remote sensing, modern instruments and even apps to address contemporary developmental problems
- The students are made aware of the applied aspects of the various topics and the need to understand the multi and transdisciplinary nature of Geography in order to effectively collaborate, which is essential for engaging in public policy.
- Even after a preliminary study the students can pursue varied avenues for higher education e.g. Rural planning, Remote Sensing GIS and after completing the entire degree course the avenues expand to undertaking 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.

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**Course Outcomes (COs): Four-year B.A./B.Sc. Geography (Honours & Honours with Research) Programme &
Three-year B.A./B.Sc. (Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
GEOG-H-CC01/MDC01-1/3-Th	Physical Geography	1	<ul style="list-style-type: none"> • endogenetic and exogenetic forces and landscape evolution • elements of weather and climate including interplay of upper and lower atmospheric interactions • soil system - Biosphere and its processes and how humans impinge on both • factors, vulnerability, consequences and management of various hazards in India • use of map-making & cartographic techniques to understand the measurement and of Earth 	<ul style="list-style-type: none"> • man-nature interrelationships and interplay of endogenetic and exogenetic forces • interaction between upper and lower atmospheric conditions • interplay of soil-plant-water relationship and understand the measures needed to conserve the Geosphere • hazard vulnerable areas and management of hazard • Earth's geodesy and its representation through maps
GEOG-H-CC01/MDC01-1/3-P	Physical Geography Lab		<ul style="list-style-type: none"> • art of map-making and cartographic techniques to represent various Earth processes visually • use of topographical maps to understand the exogenetic processes especially fluvial processes that shape the landscape • weather phenomenon of the region through use of various cartographic techniques 	<ul style="list-style-type: none"> • the Earth's geodesy and in the nuances of scale, measurement and map-making • the fluvio drainage landscape and how humans need to adapt their activities based on these characteristics and plan landuse based on these • lower atmospheric weather conditions, especially wind speed and direction and how it can impact the weather and ways of living and livelihood of the people of the region
GEOG-H-SEC01/MDS01-1/2/3-Th	Methods in Geography	1 for H and 1/2 for MD	<ul style="list-style-type: none"> • elements of Geographical research from conception to research design and finally analysis and interpretation of field related data • various statistical techniques and methods in Geographical Studies to undertake an explanatory and descriptive analysis of field data • use of various modern instruments and apps that can assist in undertaking field work and Geographical research 	<ul style="list-style-type: none"> • the basic tenets of a good Geographical research and fieldwork to improve conceptual clarity and strong philosophical basis for research • various statistical methods and the applicability of each in specific cases • modern apps and handy electronic gadgets that that smoothen and improve the quality of Geographical research

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**Course Outcomes (COs): Four-year B.A./B.Sc. Geography (Honours & Honours with Research) Programme &
Three-year B.A./B.Sc. (Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
			<ul style="list-style-type: none"> use of various exploratory cartographic techniques to examine geographical research themes ranging from physical soil analysis to economic and even transport analysis basics and application of remote sensing especially for mapping flooded areas and riverbank shifting 	<ul style="list-style-type: none"> the application of spatial statistics and cartography to understand Geographical phenomenon which can assist in planning the importance and applicability of Remote sensing in solving real world problems and planning by combining spatial and aspatial data
GEOG-H-CC02/MDC02-2/4-Th	Human Geography	2	<ul style="list-style-type: none"> scope of human Geography and various approaches towards understanding it evolution of society from primitive tribal to contemporary technology intensive ones over Geographical space demography of the region how demographical variables are influenced by and influence Geographical phenomenon nature and dynamics of rural and urban settlements and their evolution 	<ul style="list-style-type: none"> the current socio-spatial organisations social spatial processes operating in contemporary times and how they shape the cultural landscape. interaction of physical-cultural-economic-demographic landscape the implication of above for settlement and development
GEOG-H-CC02/MDC02-2/4-P	Human Geography		<ul style="list-style-type: none"> use of varied cartographic techniques and tools and toposheets to examine socio-cultural-economic processes through better visualization of demographic phenomenon and cultural landscape. 	<ul style="list-style-type: none"> apposite application of cartographic and thematic techniques to comprehend and identify the various demographic and cultural patterns and processes operating to assist in developmental planning.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.A./B.Sc. Geography (Honours & Honours with Research) Programme & Three-year B.A./B.Sc. (Multidisciplinary) Programme

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
GEOG-H-CC01/MD-CC01-1/3-Th	Physical Geography	1	√		√	√	√	√	√
GEOG-H-CC01/MD-CC01-1/3-P	Physical Geography Lab		√		√	√	√	√	√
GEOG-H-SEC01/MD-SEC01-1/2/3-Th	Methods in Geography	1 for H and 1 / 2 for MD	√	√	√	√	√	√	√
GEOG-H-CC02/MD-CC02-2/4-Th	Human Geography	2	√	√	√	√	√	√	√
GEOG-H-CC02/MD-CC02-2/4-P	Human Geography		√	√	√	√	√	√	√

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DEPARTMENT OF HISTORY

Four-year B.A. History (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

Four-year B.A. History (Honours & Honours with Research) Programme

- 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.

Three-year B.A. (Multidisciplinary) Programme

- 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.

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Course Outcomes (COs): Four-year B.A. History (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
HISM & MHIS & MDCC DSCC-1	History of India (Up to c. 300 BCE)	1	<ul style="list-style-type: none"> To build concept about the socio-economic, political and cultural patterns of the earliest period of human civilizations which developed in India 	<ul style="list-style-type: none"> To build concept about the socio-economic, political and cultural patterns of the earliest period of human civilizations which developed in India.
HISM & MDCC SEC - 1	Museums and Archives		<ul style="list-style-type: none"> Concept making on conservation of historical sources. Visits to the museums and archives provide the students with practical knowledge. 	<ul style="list-style-type: none"> Concept making on conservation of historical sources. Visits to the museums and archives provide practical knowledge to the students about archives and museum.
HISM & MHIS & MDCC DSCC-2	Social Formations and Cultural Patterns of The Ancient World Other than India	2	<ul style="list-style-type: none"> It focuses on building conceptual knowledge about the Socio - cultural patterns of the ancient World. 	<ul style="list-style-type: none"> It focuses on building conceptual knowledge about the Socio – cultural patterns of the ancient World other than India.
HISM & MDCC SEC – 2	Understanding Cultural Heritage and Tourism		<ul style="list-style-type: none"> This particular Course enables students to navigate the various aspects of cultural heritage and cultural diversity. This paper discusses numerous cultural practices that have evolved over centuries in historical perspective. It focuses on the issue of heritage tourism. 	<ul style="list-style-type: none"> This particular course gives the students a first-hand knowledge about the practical dimension of heritage tourism. This course is important from the vocational dimension.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.A. History (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

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
HISM & MHIS & MDCC DS CC-1	History of India (Up to c. 300 BCE)	1	✓	✓	✓	✓	✓	✓	✓
HISM & MDCC SEC - 1	Museums and Archives		✓	✓	✓	✓	✓	✓	✓
HISM & MHIS & MDCC DS CC-2	Social Formations and Cultural Patterns of The Ancient World Other than India	2	✓	✓	✓	✓	✓	✓	✓
HISM & MDCC SEC - 2	Understanding Cultural Heritage and Tourism		✓	✓	✓	✓	✓	✓	✓

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DEPARTMENT OF MATHEMATICS

Three-year B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
- A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
- Ability to analyse a problem, identify and define the computing requirements, which may be appropriate to its solution.
- Students will be able to apply critical thinking skills to solve problems that can be modelled mathematically, to critically interpret numerical and graphical data, to read and construct mathematical arguments and proofs.
- Students will be well-prepared for higher studies in their chosen field.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Mathematics]				
Course Code	Course Name	Semester	Objective	Outcome
CC-1	Calculus, Geometry &Vector Analysis	1	<ul style="list-style-type: none"> • To understand the differentiability of a function at a point and in an interval, meaning of sign of derivative, differentiating hyperbolic functions, higher order derivatives, Leibnitz rule and its applications, indeterminate forms. L'Hospital's rule (statement and example), reduction formulae, derivations and illustrations of reduction formulae, parametric equations, parametrizing a curve, arc length of a curve, arc length of parametric curves, area under a curve, area and volume of surface of revolution. • To build the concept about rotation of axes and second degree equations, classification of conics using the discriminant, reduction to canonical form, tangent and normal, polar equations of conics, spheres, cylindrical surfaces, central conicoids, paraboloids, plane sections of conicoids, generating lines, identification of quadric surfaces like cone, cylinder, ellipsoid, hyperboloid, classification of quadrics. • To understand triple product, vector equations, applications to geometry and mechanics — concurrent forces in a plane, theory of couples, system of parallel forces, vector functions, operations with vector-valued functions, limits and continuity of vector functions, differentiation and integration of vector functions of one variable. 	<ul style="list-style-type: none"> • The students are enlightened regarding the basic concept of Calculus, Geometry &Vector Analysis.
SEC-1	C Language with Mathematical Applications		<ul style="list-style-type: none"> • To have an overview of architecture of computer, compiler, assembler, machine language, high level language, object oriented language, programming language, higher level language. • To learn about constants, variables and data type of C-Program, operation and expressions: Arithmetic operators, relational operators, logical operators, decision Making and branching, control Statements: While statement, doo-while statement, for statement, arrays, user- 	<ul style="list-style-type: none"> • Students will develop a brief idea on C language with its application on mathematics.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Mathematics]				
Course Code	Course Name	Semester	Objective	Outcome
			<p>defined Functions, introduction to Library functions: stdio.h, math.h, string.h, stdlib.h, time.h etc.</p> <ul style="list-style-type: none"> Students will learn about the application of C- language to solve various mathematical problems. 	
IDC-1	Mathematics in Daily Life		<ul style="list-style-type: none"> To build the concept of sets, subsets and set operations (Union, Intersection, Complementation, Subtraction), basic laws of set algebra, Venn diagrams, cardinal number and its application in daily life. To understand simple problems on First Principle of Mathematical Induction, Division algorithm; G.C.D. of two positive integers, representation of a positive integer in Binary and decimal mode, Linear Diophantine equation in two variables and its simple real life applications, some elementary properties of prime integers (only statement), Fundamental theorem of Arithmetic, algorithm for Primality test, congruence of Integers, application of congruence of integers, divisibility tests by 2, 3, 4, 5, 7, 9, 11, check Digits in International Standard Book Number (ISBN), Universal Product Code (UPC), VISA and MASTER card, formation of Round Robin Tournament Table using congruence of integers. To learn about proposition, propositional variables and propositional Logic, logical Connectives and their Truth Tables; Truth value of a proposition, Truth tables of expressions involving more than one logical connective, Tautology, logical consequence, logical equivalence, contradiction. To have an idea of Linear Programming Problems, definition of Game, examples from daily life, solution of a game problem with saddle point. 	<ul style="list-style-type: none"> Students are enlightened regarding the basic concept of set theory, integers, application of congruences, mathematical logic, basics of operations research and financial mathematics.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Mathematics]				
Course Code	Course Name	Semester	Objective	Outcome
			<ul style="list-style-type: none"> To understand fundamental concept of Simple interest and Compound , ordinary Simple Annuities, problems on Dividend calculation and Calculation of income tax on taxable income (old and new regime). 	
CC-2	Basic Algebra	2	<ul style="list-style-type: none"> To understand the polar representation of complex numbers, nth roots of unity, De Moivre's theorem for rational indices and its applications, theory of equations, Descartes rule of signs, Application of Sturm's theorem, cubic equation (solution by Cardan's method) and biquadratic equation (solution by Ferrari's method), the inequality involving $AM \geq GM \geq HM$, Cauchy-Schwartz inequality, equivalence relation, equivalence classes & partition, partial order relation, poset, linear order relation, mapping, Well-ordering property of positive integers, Principles of Mathematical induction, division algorithm, divisibility and Euclidean algorithm, prime numbers and their properties, Euclid's theorem, congruence relation between integers, Fundamental Theorem of Arithmetic, Chinese remainder theorem, some arithmetic functions such as ϕ, τ, σ and their properties, systems of linear equations, existence and uniqueness of solution, the matrix equation $Ax = b$, row reduction and echelon forms, rank of a matrix, algebraic and geometric properties of the vectors, linear combination of vectors, linear independence of vectors, algebraic and geometric characterizations of linearly independent subsets. 	<ul style="list-style-type: none"> The students are enlightened regarding the basic concept of Algebra.
SEC-2 (Any one out of 2 Courses on Right Column)	SEC 2.1 : Python Programming and Introduction to Latex	2	<ul style="list-style-type: none"> To learn Python Programming Language, features, installing Python, running Code in the Interactive Shell, IDLE, Input, Processing and Output, Editing, Saving, and Running a Script, Debugging: Syntax Errors, Runtime Errors, Semantic Errors, Data types and expressions, Boolean string, Mathematical operators, Loops and selection statements, Strings, Lists, Tuple, Dictionary, working with numbers, 	<ul style="list-style-type: none"> Students will have a brief idea on Python Programming, LATEX.

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Course Code	Course Name	Semester	Objective	Outcome
			<p>Algebra and Symbolic Math with SymPy, Plotting using SymPy, Plotting expressions input by the user, Plotting multiple functions.</p> <ul style="list-style-type: none"> • To have an overview on LATEX, preparing a basic LATEX file, compiling LATEX file, Document classes, page Layout, List structures, representation of mathematical equations, customization of fonts, writing tables , figures, Packages, Use of Different LATEX commands and environments, changing the type style, symbols from other languages, special characters. 	
	SEC 2.2 : Artificial Intelligence		<ul style="list-style-type: none"> • To understand the basics of artificial intelligence and its subfields. • To explore real-world applications of AI across different industries. • To gain insights into the ethical, social, and economic implications of AI. • To develop an appreciation for the potential of AI to drive innovation and transformation. 	<p>The students will learn to:</p> <ul style="list-style-type: none"> • define and explain the fundamental concepts and subfields of AI. • identify real-world applications of AI across various industries. • analyze the ethical, social, and economic implications of AI. • recognize the potential of AI to drive innovation and transformation in different domains.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Mathematics]

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
CC-1	Calculus, Geometry & Vector Analysis	1	√						√
SEC-1	C Language with Mathematical Applications		√	√					√
IDC-1	Mathematics in Daily Life		√	√	√	√	√	√	√
CC-2	Basic Algebra	2	√	√					√
SEC-2	SEC 2.1 : Python Programming and Introduction to Latex		√	√					√
	SEC 2.2 :Artificial Intelligence		√	√	√	√	√	√	√

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DEPARTMENT OF PHILOSOPHY

Four-year B.A. Philosophy (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- The Programme takes in its fold such core courses as are necessary for the overall development of a human being, physically, socially, politically, ethically as well as spiritually.
- It aims at developing critical insights and a broader prospect of mind for understanding life and nature.
- It not only makes the students aware of their age-old wisdom heritage, but also lets them acquire knowledge of the world-wide philosophical thoughts, that too based on logical reasoning and also on metaphysical grounds.
- 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 both in the academic sphere that are directly or indirectly related to the Philosophy subject like Teaching, Journalism, Counselling etc., and in other non-academic fields like different Government services as well.
- This helps them in churning out their own life-living principles by inculcating in them the passion for knowing more and more and cultivates in them an awareness of their responsibility towards their country and the world and environment at large.
- Thereby the programme aims at developing in them a non-prejudiced approach towards their family, society and the global platform.

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**Course Outcomes: Four-year B.A. Philosophy (Honours & Honours with Research) Programme &
Three-year B.A. (Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
PHI-H-DSCC-1/ PHI-MD-CC-1- Paper-1	Fundamentals of Philosophy	1	<ul style="list-style-type: none"> Basic concepts and thoughts of the modern philosophical world. Epistemological and metaphysical outlook towards reality and the phenomenal world. Moral values and socio-ethical ideals guiding our life. 	<ul style="list-style-type: none"> The relation between commonsense, science and Philosophy. Certain epistemological and metaphysical issues. Ethical principles and their application in life.
PHI-H-SEC	Man and Nature		<ul style="list-style-type: none"> Relation of man with nature. Classical attitude of Indian thought world towards nature. Western outlook towards nature and the active participation of humankind in preserving environment. Intrinsic value of nature and human obligation to the ecological system. Ecological movements. 	<ul style="list-style-type: none"> The narrow and broad sense of the term “nature”. Upanisadic and post-Upanisadic understanding of nature. Attitude of respect towards nature. Ethical standards and rules following from this attitude of respect. Subjective and objective value of nature.
PHI-H-DSCC-2/ PHI-MD-CC-2- Paper-2	Outlines of Indian Philosophy	2	<ul style="list-style-type: none"> Basic concepts of Indian philosophical systems and their common characteristics. Indian philosophical exposition of the law of karma. Nature of self and liberation. Meaning of ‘dharma’ and its classification. 	<ul style="list-style-type: none"> Indian philosophical teachings. Vedic and Upanisadic thoughts. The reality of self and the world. The essence of human existence.
PHI-H-SEC/ PHI-MD-SEC	Recent Issues in Philosophy: Political and Ethical	For Semester 2 Honours & Semester 1/2 MDC	<ul style="list-style-type: none"> Different socio-political concepts. Origin and development of human rights. Concepts of justice and equality. Sex-Gender dichotomy. Key concepts of Feminism and the feminist approach to different branches of Philosophy. 	<ul style="list-style-type: none"> The nature and value of Human Rights an the journey of its development. The concept of Justice and Equality as exposed by John Rawls and Amartya Sen. The concept of Gender Discrimination and its various forms. Feminist consciousness. Feminist movement and the different kinds of Feminism.

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**Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.A. Philosophy (Honours & Honours with Research)
Programme & Three-year B.A. (Multidisciplinary) Programme**

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
PHI-H-DSCC-1/ PHI-MD-CC-1- Paper-1	Fundamentals of Philosophy	1	√	√	√	√	√	√	√
PHI-H-SEC	Man and Nature		√	√	√	√	√	√	√
PHI-H-SEC/PHI-MD-SEC	Recent Issues in Philosophy: Political and Ethical	For Semester 2 Honours & Semester 1/2 MDC	√	√	√	√	√	√	√
PHI-H-DSCC-2/ PHI-MD-CC-2- Paper-2	Outlines of Indian Philosophy	2	√	√	√	√	√	√	√

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DEPARTMENT OF PHYSICS
Three-year B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

Mechanics and Mathematical Physics: The students would learn about the behaviour of physical bodies it provides the basic concepts related to the motion of all the objects around us in our daily life. The course builds a foundation of various applied field in science and technology; especially in the field of mechanical engineering. The course comprises of the study vectors, laws of motion, momentum, energy, rotational motion, gravitation, fluids, elasticity and special relativity.

Practical: Students would perform basic experiments related to mechanics and also get familiar with various measuring instruments would learn the importance of accuracy of measurements.

Basic Electricity and Magnetism: It gives an opportunity for the students to learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force. The course contains vector analysis, electrostatics, magnetism, electromagnetic induction and Maxwell's equations. The course is very useful for the students in almost every branch of science and engineering.

Practical: Students would gain practical knowledge about electricity and magnetism and measurements such as: Resistance, Voltage, current etc.

Introduction to Computer Programming and Graph Plotting: It develops problem solving abilities using a computer and builds the necessary skill set and analytical abilities for developing computer based solutions for real life problems. It also trains students in professional skills related to Software Industry and prepares necessary knowledge base for research and development in Computer Science. Students build-up a successful career in Computer Science and to produce entrepreneurs who can innovate and develop software products and learns to analyze a problem, devise and formulate algorithms to solve it. It helps students to grow knowledge about the basic concepts and terminology of programming in Python and implement algorithms in it.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Physics]				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
MDC-1/MDC Minor-1	Basic Physics-I Theory	1	<ul style="list-style-type: none"> • Mathematical Physics • Classical Mechanics 	<ul style="list-style-type: none"> • Quantitative understanding of physical processes and parameters require various mathematical methods to solve the given problem subjected to known boundary conditions. The prescribed course runs through various topics which include Vector integration, Gauss and Stoke's theorem, Matrices etc. • By building an understanding of kinetic and potential energies of a system, the Lagrangian and Hamiltonian functions of systems will be set up in order to arrive at the equations of motion. The behaviour of micro and macro molecules under the effect central forces will be analysed by studying rigid body mechanics and Poisson Brackets. Motion in non-inertial frames of references will also be studied in order to understand the effect of forces acting on rotating particles.
MDC-1/MDC Minor-1-P	Basic Physics-I Practical	1	<ul style="list-style-type: none"> • Measurements using slide callipers, screw gauge & travelling microscope; • Ideas about rounding off experimental data in conformity with the least count of the measuring instrument; • Idea of systematic & random errors introduced in different instruments • Measurement of a suitable vertical height using Sextant • Determination of the Moment of Inertia of a metallic cylinder / rectangular rod about an axis passing through its centre of gravity 	<ul style="list-style-type: none"> • Create logical reasoning and critical thinking through the knowledge that they acquired in classrooms, laboratory etc. and apply them in real-life situations. • Internalize the significance of various academic as well as extracurricular activities that will enable them to become skilled professionals. • Grow into accountable and empowered individuals who will emerge as scientists, entrepreneurs etc., and be employed in various governmental and non-governmental sectors. • Attain expertise in communication skills, acquire moral and social values that keep one creative and compassionate human in all walks of life and turn out to be responsible citizens.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Physics]				
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
			<ul style="list-style-type: none"> Determination of modulus of rigidity of the material of a suspension wire by dynamical method To determine the coefficient of viscosity of water by Poiseuille's method 	<ul style="list-style-type: none"> Build up self-esteem and ability to engage in independent and life-long learning in the context of an ever-changing world and competence to face challenges. Recognize the current local and global issues of environmental contexts and involves in activities that promote sustainable and green living.
SEC-1	Introduction To Computer Programming and Graph Plotting Practical	1 / 2	<ul style="list-style-type: none"> Introduction to Graph Plotting Introduction to programming in python 	<ul style="list-style-type: none"> To enable researchers and students to interactively visualize mathematical functions and data, but it has since expanded to cover a wide range of non-interactive purposes, including web scripting. To provide students with sufficient familiarity with Gnuplot to plot simple 2D graphs of data generated by other programs. Describing the basics of the Python programming language Installing Python and writing your first program Using variables to store, retrieve and calculate information Utilizing core programming tools such as functions and loops Designing and programming Python applications Using lists, tuples, and dictionaries in Python programs Identifying Python object types Using indexing and slicing to access data in Python programs to equip the students with a comprehensive study of Python Programming to develop logic of various programming problems using numerous data types and control structures of Python. Implement different data structures, modules, functions and files handling using Python.

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Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Physics]				
Course Code	Course Name	Semester	Objective To understand the...	Outcome The students are enlightened regarding...
MDC-2/MDC Minor-2	Basic Physics-II Theory		<ul style="list-style-type: none"> • Basic Electricity and Magnetism • Introduction to Thermodynamics 	<ul style="list-style-type: none"> • To learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force and basic understanding of DC and AC circuits. • To understand the basic physics of heat and temperature and their relation with energy, work, radiation and matter.
MDC-2/MDC Minor-2-P	Basic Physics-II Practical	2	<ul style="list-style-type: none"> • Ideas about handling electrical apparatus & components; Safety against electrical hazards; Use of digital multimeter; Reading colour codes for carbon resistors etc • Conversion of an ammeter to voltmeter and vice versa. • Determination of an unknown low resistance using Carey-Foster's Bridge. • Measurement of current by potentiometer. • Measurement of pressure coefficient of expansion of air by Jolly's apparatus. • Measurement of coefficient of thermal expansion of a metallic rod by optical lever arrangement 	<ul style="list-style-type: none"> • Describe electrical hazards and safety equipment and demonstrate proper maintenance of electrical equipment by understanding various standards. • To change the range of the meters, then we could do the same by converting an ammeter to another ammeter or a voltmeter to another voltmeter. • To describe a Carey Foster's bridge circuit, and explain how it can be used to measure an unknown resistance and distinguish between a Carey Foster's bridge and a meter bridge. • To measure and calibrate current and resistance of a circuit. • To use a thermometer to measure temperature; determine the value of specific heat capacity of water; and use the telescope and optical lever arrangement to measure very small C lengths.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.Sc. (Multidisciplinary) Programme [Physics]

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
MDC-1/MDC Minor-1	Basic Physics-I Theory	1	✓	✓	✓				✓
MDC-1/MDC Minor-1-P	Basic Physics-I Practical		✓		✓				✓
SEC-1	Introduction To Computer Programming and Graph Plotting Practical	1 / 2	✓	✓	✓				✓
MDC-2/MDC Minor-2	Basic Physics-II Theory	2	✓	✓	✓				✓
MDC-2/MDC Minor-2-P	Basic Physics-II Practical		✓	✓	✓			✓	✓

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DEPARTMENT OF PSYCHOLOGY
Three-year B.A./B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs):

Based on the CCF 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 the cognitive, conative and affective aspect of psychology and use their theoretical knowledge in the administration of different psychometric test. From skill enhancement course they also know about to understand the main symptoms and sources of stress and learn the ways of coping with stress including mindfulness practice. As well as they have a clear concept about the human resource development, human resource management, and international human resource management and apply their knowledge in the field of industrial area.

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Course Outcomes (COs): Three-year B.A./B.Sc. (Multidisciplinary) Programme [Psychology]

Course Code	Course Name	Semester	Objective	Outcome
CC-1/MN-1	INTRODUCTION TO PSYCHOLOGY <u>Theory + Practical</u> (Practical on Fluctuation of Attention, Reiz Limen, Computation techniques of the measure of central tendency and dispersion and graphical representation on frequency polygon, histogram & ogive.)	SEM-I	To understand the basic psychological processes and to know about the underline theoretical construct, be able to conduct the practicum and justify the method by using different psychometric instrument.	Should have clear concept about the basic and fundamental psychological principles such as basic psychological processes and experimental psychology.
CC-2/MN-2	BASIC PSYCHOLOGICAL PROCESSES <u>Theory + Practical</u> (Practical on proactive and retroactive inhibition, perceptual reversibility, time perception and on intelligence)	SEM-II	To understand the basic cognitive, conative and affective processes of psychology like: perception, learning, memory, intelligence, motivation and emotion.	Should have clear concept about the basic cognitive, conative and affective processes of psychology and apply this theoretical knowledge to administration and instrumental based practical.
SEC	STRESS MANAGEMENT <u>Theory + Practical</u> (Practical on administration of anxiety inventory, stress scale and applying relaxation techniques on stress.)	SEM-I/II	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 and for the social sciences.
IDC	HUMAN RESOURCE MANAGEMENT <u>Theory + Practical</u> (Practical on administration of organizational role stress scale)	SEM-I/II	To understand the concept of HRD &HRM and apply their underline concept on industrial field.	Should have clear concept about the human resource development, human resource management, and international human resource management and apply their knowledge in the field of industrial psychology.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.A./B.Sc. (Multidisciplinary) Programme [Psychology]

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
CC1/ MN-1	INTRODUCTION TO PSYCHOLOGY	1	√	√				√	√
CC2/ MN-2	BASIC PSYCHOLOGICAL PROCESSES		√	√				√	√
SEC	STRESS MANAGEMENT	2	√	√					√
IDC	HUMAN RESOURCE MANAGEMENT		√	√	√	√	√	√	√

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DEPARTMENT OF POLITICAL SCIENCE

Four-year B.A. Political Science (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

The programme(s) 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.

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Course Outcomes (COs): Four-year B.A. Political Science (Honours & Honours with Research) Programme & Three-year B.A. (Multidisciplinary) Programme

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
CC1	Political Theory: Foundational Concepts	1	<ul style="list-style-type: none"> To understand the entry points through which the <i>political</i> is interpreted, core concepts that guide the theorisation of politics. 	<ul style="list-style-type: none"> Inception or history of key political theories.
SEC1	Democratic Awareness with Legal Literacy		<ul style="list-style-type: none"> Acquaint undergraduate students with different terms of the legal structure of India 	<ul style="list-style-type: none"> Improve working knowledge of affirming one's rights Be aware of duties to explore opportunities and challenges for different sections of people in India.
CVAC1	Constitutional Values and Fundamental Duties	1	<ul style="list-style-type: none"> To enrich students with knowledge and relevance of the Indian Constitution. To develop awareness about values of basic tenets and Duties. To inculcate a sense of Constitutionalism. 	<ul style="list-style-type: none"> To recognise the importance of Fundamental Duties enshrined in the Constitution. the Constitution and its relevance.
CC2	Constitutional Government in India	2	<ul style="list-style-type: none"> Familiarity with the issues concerning constitutional architecture, institutional design and Practice of constitutional democracy. Understanding of the division of power between various organs of the government. 	<ul style="list-style-type: none"> The constitutional processes of India. Basic fundamental features of the constitution
SEC2	Understanding the Legal System		<ul style="list-style-type: none"> to focus on the enhancement of skill of ordinary persons to enable them to utilize legal knowledge in life. a systemic perspective on an overarching framework for approaching law as a skill-based subject. 	<ul style="list-style-type: none"> acquaint, train and equip students with a reasonable knowledge of the legal system. form own opinion and articulate them in the interest of society at large.

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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
CC1	Political Theory: Foundational Concepts	1	√	√	√	√	√		√
SEC1	Democratic Awareness with Legal Literacy		√	√	√	√	√	√	√
CVAC1	Constitutional Values and Fundamental Duties	1	√	√		√	√	√	√
CC2	Constitutional Government in India	2	√	√	√	√		√	√
SEC2	Understanding the Legal System		√	√	√	√	√	√	√

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DEPARTMENT OF SANSKRIT

Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

Sanskrit is a language without whose knowledge we cannot truly understand our own culture and heritage. It is the mother of several modern languages in India. At present different types of lore like History of Science and Medicine, Astrology, Epigraphy, Manuscriptology, Phonetics, Semantics etc. are popular in the field of study. Simultaneously the language is also conducive for the study of literature, Value Education, Religious Studies, Philosophy, Ancient Indian History and Polity etc. After becoming successful completion of all undergraduate students should be able to achieve the following objectives:

- **PSO 1** – Provide adequate knowledge of Sanskrit language which enables students to understand Sanskrit environmental national and global scenario.
- **PSO 2** – Develop a strong concept of ancient Indian History, Philosophy and Literature.
- **PSO 3** – Enhance communication skills i.e. Listening, Speaking, Reading and Writing.
- **PSO 4** – Students will be able to write Devanagari scripts which provide them paleographical knowledge to read out script of modern languages like Hindi and others.
- **PSO 5** – Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philosophy, Grammar, Kavya, Smritishastra etc.
- **PSO 6** – Produce right knowledge about the utility of the Vedic ritualistic performance.
- **PSO 7** – To make them eligible for higher education and develop research aptitude and independent thinking.
- **PSO 8** – After becoming graduate students can apply in the field of UPSC and WBCS etc. And also after post-graduation they can apply against teaching posts in schools, colleges and other educational institutions.

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Course Outcomes (COs): Three-year B.A. (Multidisciplinary) Programme [Sanskrit]

Course Code	Course Name	Semester	Objectives	Outcomes
CC1	General Grammar & Metre	1	To inform Students about Sanskrit grammar and developing the speaking and writing skills in Sanskrit knowledge about Metre.	This course aims to get the students to know the basic of Sanskrit grammar, including rules of sandhi, karaka and samasa based on Paniniam Grammar. Besides the students will be able to translate sentences and write short paragraph in Sanskrit. The purpose of Chanda is primarily to add rhythm to the text so that it is easier to memorize.
EC1	Spoken Sanskrit		To communicate students about Sanskrit grammar and developing the speaking and writing skills in Sanskrit language.	This is an elementary course in Sanskrit language designed for students who wish to learn Sanskrit from the very beginning. Essential Sanskrit Grammar will be introducing through multiple example method with emphasis on students constructing themselves sentences. Students will run to read and write Sanskrit. They will also know the evolution of Devanagari scripts and able to write a letter in Sanskrit language.
IDC	Technical Literature		To inform Students about ancient Sanskrit Literature like medical science, dance and painting.	Ayurveda and Gandharva Veda are in the four upavedas which are derived from the four Vedas. Gandharva Veda is a Vedic science of the effect of the sound and music on everyone, including the body and soul by dance and art of yoga. Ayurveda which helps to promote physical and mental health.
CC2	History of Sanskrit Literature	2	To apprise about history of classical Sanskrit Literature and contribution of scholars in the field of Sanskrit Literature	This course aims to get students acquainted with history of Vedic literature, history of classical Sanskrit literature, history of scientific and technical Sanskrit literature and contribution of scholars in the field of Sanskrit literature. It intends to give an understanding of Literature , through which students will be able to appreciate the development of Sanskrit literature.
SEC2	Spoken Sanskrit & Computer Awareness		To inform Students about Sanskrit grammar and computer awareness of Sanskrit language	Digital empowerment as action refers both to the process of self-empowerment and to professional support of students, which enable them to overcome their sense of powerlessness and lack of influence, and to recognize and use their resources.
IDC	Technical Literature		To inform Students about history of scientific and technical literature like mathematics and architecture.	This course aims to get students acquainted with history of scientific and technical Sanskrit literature. It intends to give an understanding of literature through which students will be able to appreciate the development of Sanskrit literature.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.A. (Multidisciplinary) Programme [Sanskrit]

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
CC1	General Grammar & Metre	1	✓	✓	✓				✓
SEC1	Spoken Sanskrit		✓	✓	✓				✓
IDC	Technical Literature		✓		✓		✓	✓	✓
CC2	History of Sanskrit Literature	2	✓		✓	✓	✓	✓	✓
SEC2	Spoken Sanskrit & Computer Awareness		✓	✓	✓				✓
IDC	Technical Literature		✓	✓	✓		✓	✓	

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DEPARTMENT OF SOCIOLOGY

Three-year B.A. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

After completion of the programme the students will be able to:

- Understand the key concepts in sociology
- Think critically by exercising sociological imagination to make sense of the reality in a more comprehensive manner
- Identify the challenges in sociological field of enquiry
- Predict and analyze the challenges in current society
- Question common wisdom, raise important questions and examine arguments
- Collect and analyse data, make conclusions and present arguments
- Think theoretically and examine the empirical data
- Gain ability to critically appreciate development programs and agencies

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Course Outcomes (COs): Three-year B.A. (Multidisciplinary) Programme [Sociology]

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
SOC-MD-CC-1	Introductory Sociology	1	<ul style="list-style-type: none"> The course is intended to introduce the students to a sociological way of thinking. It also provides a foundation for the other more detailed and specialized courses in sociology. 	<ul style="list-style-type: none"> This paper will help students to have a general understanding of the discipline and perspective of Sociology. The course will enable students to comprehend social reality through sociological concepts.
SOC-MD-SEC-1	Gender Sensitization		<ul style="list-style-type: none"> The course will help to understand the role of socialization as a constructor of gender roles and status. 	<ul style="list-style-type: none"> Through this course the students will be able to develop ways to address gender inequalities and promote gender justice, analyze social problems using a gender lens and learn the constitution provisions and laws relating to gender rights.
SOCD-IDC-1	Knowing Indian Society	1/2	<ul style="list-style-type: none"> The course attempts to analyze the nature and direction of change in Indian society, from traditional to modern. 	<ul style="list-style-type: none"> The students will acquire a familiarity with ideas of India in their social and historical context and will be acquainted with key institutions and processes of Indian society. The students will gain the ability to understand social institutions with sociological imagination and with a critical and comparative spirit. There will be a preliminary understanding of sociological discourse on Indian society.
SOC-MD-CC-2	Sociology of India	2	<ul style="list-style-type: none"> This course introduces the processes and modes of construction of knowledge in India. Further, it aims to draw attention to the key concepts and institutions which are useful for the understanding of Indian society. 	<ul style="list-style-type: none"> Through this course the students will attain the foundation of viewing images and ideas of India through a sociological lens. They will be further able to investigate sociological concepts and institutions in the Indian context.

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Three-year B.A. (Multidisciplinary) Programme [Sociology]

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
SOC-MD-CC-1	Introductory Sociology	1	*	*	*		*		*
SOC-MD-SEC-1	Gender Sensitization		*		*	*	*		*
SOCD-IDC-1/2	Knowing Indian Society	1/2	*		*	*	*	*	*
SOC-MD-CC-2	Sociology of India	2	*		*	*	*	*	*

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DEPARTMENT OF ZOOLOGY

Four-year B.Sc. Zoology (Honours & Honours with Research) Programme & Three-year B.Sc. (Multidisciplinary) Programme

Programme Specific Outcomes (PSOs)

- The students will understand the basic concepts of cell biology and biochemistry. This will help them to gather knowledge on the biochemical and metabolic pathways of different forms of life.
- The students will be acquiring basic experimental skills in various techniques in the fields of cell biology and genetics, molecular biology and analytical biochemistry. These methodologies will provide an extra edge to our students, who wish to undertake higher studies.
- The skill enhancement courses like aquaculture, sericulture and apiculture will inculcate skills involved in rearing fish, bees and silkworm which would help them in generating self-employment making them successful entrepreneurs.
- 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.
- Students will expertise in the identification, life history and ecology of insect pests and predators/ parasites as well as the basic principles and strategies of their management. The knowledge acquired and skill developed in the field of entomology, help in recognizing the applications of latest technologies in all spheres of agriculture and develop crops with improved productivity thereby increasing farmers' income, better human health and decreased environmental pollution as well as meet out the future challenges in agricultural crops and storage grains. Beside knowledge of medical entomology will help students to learn the taxonomy, morphology, life history, ecology, and behavior of the insects of public health importance and the epidemiology of the disease pathogens they transmit. Students will also learn integrated pest management (IPM) techniques that are helpful in diagnosing, preventing, and controlling disease vectors.
- Studying medical entomology will help students to gain the expertise to examine insect evidence to determine the time since death, thereby contributing to the reconstruction of the crime scene.

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**Course Outcomes (COs): Four-year B.Sc. Zoology (Honours & Honours with Research) Programme &
Three-year B.Sc. (Multidisciplinary) Programme**

Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
CC1	Cell Biology	1	• Concept of cell structures	<ul style="list-style-type: none"> • CO1: 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 squamous epithelial cells and cells isolated from bone marrow of rat and preparation of permanent slides of cell viability study. • CO3: The concept of modern tools and techniques used in cell biology
SEC 1	Applied Entomology		• Concepts of insect morphology their principles, utility and relevance	<ul style="list-style-type: none"> • CO1: The concept of insect diversity and understand the scope and importance of insect anatomy and physiology. • CO2: The concept of medical entomology, the taxonomy, morphology, life history, ecology, and behaviour of the insects of public health importance and the epidemiology of the disease pathogens they transmit. • CO3: The concept of insect pest, their role in plant diseases and control measures. • CO4: The concept of forensic entomology, its application and limitations, insects of forensic importance
SECG	Applied Zoology		• Concept of agricultural entomology, sericulture, apiculture, vermiculture, aquaculture, live	<ul style="list-style-type: none"> • CO1: The concept of insect pest, their role in plant diseases and control measures. • CO2: The knowledge gained on rearing of silk moth, their diseases and control measures, extraction of silk and its uses • CO3: The knowledge gained on rearing of bees, their diseases and control measures, collection of honey and its uses • CO4: The knowledge gained on rearing of earthworms, their uses as vermicompost • CO5: The knowledge gained on rearing of fishes and prawn, their diseases and control measures

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**Course Outcomes (COs): Four-year B.Sc. Zoology (Honours & Honours with Research) Programme &
Three-year B.Sc. (Multidisciplinary) Programme**

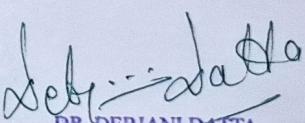
Course Code	Course Name	Semester	Objective	Outcome
			To understand the...	The students are enlightened regarding...
			stock management and lac culture	<ul style="list-style-type: none"> • CO6.: The knowledge acquired on rearing of cattle and poultry breeds, their diseases and control measures, use of their by products for economical purposes • CO7: The knowledge gained on rearing of lacs, their diseases, control measures, use of their by products
IDC 1	Animal Biology		<ul style="list-style-type: none"> • Concept of animal diversity, genetics, biodiversity and wildlife, insect vectors, laboratory techniques and instrumentation 	<ul style="list-style-type: none"> • CO1: Broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals. • CO2: Understanding of the Mendelian genetics and its extension, linkage mapping, crossing over, Chromosomal aberrations and sex determination in <i>Drosophila</i> • CO3: Concept of types and indices of biodiversity, types of conservation and conservation priorities • CO4: Concept of insect vector, their mode of action and control measures • CO5: Concept of modern laboratory techniques and instruments used in animal biology
CC2	Biochemistry	2	<ul style="list-style-type: none"> • Introduction to different biomolecules, enzymes and different biochemical pathways related to animal science 	<ul style="list-style-type: none"> • CO1: Introduction to biomolecules like carbohydrates, proteins, lipids, aminoacids, nucleic acids. CO2: The concepts of 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
SEC 2	Aquaculture		<ul style="list-style-type: none"> • Concept of aquaculture and its importance 	<ul style="list-style-type: none"> • CO1: Acquiring basic knowledge of cultivable indigenous and exotic fishes • CO2: Knowledge regarding the recent advancement of aquaculture • CO3: Concept of fish pathology • CO4: Concept of breeding techniques of shrimps, prawn and pearl

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Mapping Programme Outcomes (POs) and Course Outcomes (COs): Four-year B.Sc. Zoology (Honours & Honours with Research) Programme & Three-year B.Sc. (Multidisciplinary) Programme

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
CC1	Cell Biology	1	√						√
SEC 1	Applied Entomology		√		√	√	√	√	√
SEC G	Applied Zoology				√	√		√	√
IDC 1	Animal Biology				√	√		√	√
CC2	Biochemistry	2	√						√
SEC 2	Aquaculture				√			√	√



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