

Eastern Karbi Anglong College
Session-2023-24

**PROGRAMME OUTCOME,
PROGRAMME SPECIFIC OUTCOME &
COURSE OUTCOME OF
CHOICE BASED CREDIT SYSTEM (CBCS) &
FOUR YEAR UNDER GRADUATE PROGRAMME (FYUGP)**

PROGRAMME OUTCOME (PO) OF BA

- PO1. Students will be able to understand the role of cultural, historical, economical, political, linguistic force that shapes the world.
- PO2. The programme will create critical thinking among the students and they will be able to suggest measures to solve a social issue.
- PO3. Successful learners will develop language and communication skills in terms of reading, writing and listening and will be able to communicate with other people.
- PO4. Students will be able to realize basic human values like truth, love-caring, peace, responsibility and moral values.
- PO5. It will help them to get employment or to obtain higher studies.
- PO6. The programme will help them by creating awareness of social problems, rights, values and responsibilities towards society and nation.
- PO7. They will acquire knowledge about different problems like unemployment, overpopulation etc. of the economy and may contribute to the reduction of the problems.
- PO8. It will create consciousness of the students towards environmental problem and sustainable development.

PROGRAMME OUTCOME (PO) OF B. SC.

- PO1. Learning science gives a practical exposure to the learners in imbibing the skills on handling scientific instruments, planning, performing and relating the laboratory experiments to the theoretical concepts. It helps the learners to draw logical conclusions and inferences.
- PO2. Science plays a truly liberating role, supporting people to escape from the vicious cycle of ignorance and superstition.
- PO3. Science can take the leadership in a collaborative interdisciplinary research which enriches to drive the need to address complex problems that cut across traditional disciplines, and the capacity of new technologies to both transform existing disciplines and generate new areas like cognitive literature, behavioral sciences etc.
- PO4. Scientific knowledge allows the students to develop new technologies, solve practical problems, and make sound decisions — both individually and collectively.
- PO5. Learning science helps in professional development of the learners.

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DEPARTMENT OF ASSAMESE

B.A. IN ASSAMESE (HONOURS)
Programme Specific Outcome (PSO)

The students doing B.A. course in Assamese are expected to acquire a basic knowledge about the history of literature, caste and creed, culture and linguistic encounters. It is categorized into many forms like fiction, non-fiction, poetry, prose, novel, short story, drama etc. It is considered to be an art form which possesses intellectual value.

At the end this course induces an urge amongst the students to find out logic behind every aspect of life. Students become strong enough to raise question about the unseen eventually broadening the horizon of mind.

Course Outcome

Course Code Course Name	Course Outcome
ASMH 301T Cultural Behaviour of the Assamese	CO3: Apart from gaining knowledge students could understand our cultural roots and heritage, unity among diversity etc. Field study on specific places, tribes, festivals, custom, folk performing art, folk literature and language.
ASMH 302T Functional Grammar of Assamese	CO3: By functional grammar of Assamese language one can know deeply about morphology of Assamese language word formation, idioms and phrases, clause etc.
ASMH 303T Literary Criticism: East and West	CO3: It also gives knowledge of literary criticism.
SECH 301T Language and its use in Computer	CO3: In this paper the students will get general knowledge related to computer and internet and also to make them interested to use of Assamese language in computer.
GEH 301 Lexicography: Dictionary and Encyclopedia	CO3: To give the idea of Lexicography, Dictionary and Encyclopedia.
ASMH 401T Introduction to the Linguistics	CO4: Give thorough knowledge of general linguistic, different form of language, language families of the world etc.
ASMH 402T Selected Texts: Poetry and Plays	CO4: Students can develop their knowledge, understanding skill, feel the essence of creative writing, and develop their own writing. To gain knowledge about old as well as modern Assamese poetry, plays, dramas and their significance in literary arena.
ASMH 403T Literary Movements and Assamese Literature	CO4: Through this course the students will know about literary movements and Assamese literature.

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SECH 401T Art of Translation/Practical Translation	CO4: Students can take translation as profession, feeling attachment with the whole world.
GEH 401 Language and its use in Computer	CO4: To give knowledge of Computer and internet and to create interest of the students' use of Assamese language in computer.
ASMH 501T Folk and performing Art	CO5: Give knowledge of folk literature. It will help to improve the student's creativity through project work.
ASMH 502T Selected Texts: Novels and Short Stories	CO5: To acquire in-depth understanding and critical analysis of various novels and short stories. It exposes the students to the different form of Assamese literature in particularly and Indian literature in general e.g., novel, short story etc.
DSEH 501 Literary Terms	CO5: To acquire knowledge about literature and literary terms.
DSEH 501T Study of an important author	CO5: By studying this paper a student will come to know about the significant contribution, ideology of Srimanta Sankardev towards bringing significant changes in the society.
DSEH 502T Pali-Prakrit-Apabhramsa Language, Literature and Grammar	CO5: The modern Indian languages are evolved from the Indo Aryan language family and middle Indo Aryan language family. This evolution spanned several centuries and has been reflected in the form of literary expressions. Through this curriculum students get the knowledge of linguistic developments and growth of modern Indian languages, its phases of change and grammatical context and forms.
ASMH 601T Study of an Important Text	CO6: Through the study of this paper, Madhab Kandali's "Saptakando Ramayana" the students would get an insight into the great heritage of society and culture, the depth of history, administrative practices etc. of the period. Besides the natural resources of the then periods and the writer's sense of human values are also highlighted in the paper.
ASMH 602T Comparative Indian Literature	CO6: This course is prepared to give the idea of comparative Indian literature.
DSEH 601T Pali-Prakrit-Apabhramsa Language And Literature	The modern Indian languages are evolved from the Indo Aryan language family and middle Indo Aryan language family. This evolution spanned several centuries and has been reflected in the form of literary expressions. Through this curriculum students get the knowledge of linguistic developments and growth of modern Indian languages, its phases of change and grammatical context and forms.
DSEH 602D Field Study/Dissertation	CO6: Under the guidance of departmental teacher student has to take either a particular community or language, literature, culture, festival etc. and to prepare a minor research paper of about 4000-5000 words.

B. A. WITH ASSAMESE (PASS COURSE)

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Programme Specific Outcome (PSO)

In order to have a knowledge on a language, one has to know the origin of it, how it evolves and its journey from birth to the present stage. The students will be benefited if all these facts are covered in a syllabus. Accordingly, all these subjects have been incorporated in the TDC syllabus and the students will definitely be benefited from it.

GENERAL CHARACTERISTICS :-

The students will get a detail idea on Assamese language, its development and evolution, Assamese literature, Assamese poetry, Novels, Phase etc. from this syllabus.

SPECIAL CHARACTERISTICS :-

The students will know the various texture of Assamese language how it came into existence, factors behind its evolution, differences between other Indian languages, similarities with other Indian languages, influences on Assamese language by other Indian languages as well as Western languages etc. everything is covered in the syllabus.

The growth of Assamese literature, its evolution, its contributions etc. are also included in the syllabus. The syllabus focuses on the various Assamese cultures, written language, spoken languages etc., its regional

languages. After all it is a complete syllabus with which a student can have a knowledge of Assamese language, literature, culture etc.

COURSE OUTCOME

Course Code Course Name	Course Outcome
DSCP-301 Assamese Poetry And Drama	• They will learn about the stories of the Ramayana and the Mahabharata and the societies reflected in these two epics. • An idea on romantic poems, its characteristics and about the authors of these poems, could be formed.
SECP-301: Language In Advertisement	• To give knowledge about advertisement, advertisement institution and language in advertisement
MIL:ASML – 301 Assamese Drama, Short Stories And Novel	• The students will learn about the Brajawali languages and the purpose for the creation of this language by Srimanta Sankardeva. • They will know about modern Assamese plays, its characteristics and its subject matters. • They will know about cultures of each tribe of Assam and the differences among their cultures.
DSCP-401: Assamese Culture, Short Stories And Novel	• The Students will be able to know about Assamese culture, short stories and novels.
SECP-401: Language Of Printing And Publishing	• To give the knowledge of language printing and publishing

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ASML-401: Assamese Poetry And Frictional Knowledge Of Assamese Language	• They will learn about the Assamese poetry and functional knowledge about Assamese language.
DSCP-501: Autobiography	• Autobiography is a important thing to read every human being. • Autobiography controls our life and always take care ups and down in every human being. • Students also inspire to write autobiography.
SEC-501: Language Of Speech (Preparation Of Speech	• To acquire knowledge about importance of speech, preparation and presentation of speech.
GECP-501: Essay Writing	• To acquire knowledge about essay writing
DSECP-601: Children's Literature	• To give knowledge about children's literature so that it increase creativity of the students.
SECP-601: Dialogue Writing For Plays And Film	• To give knowledge and training about dialogue writing for plays and film
GECP-601: Editing And Compiling	• To give knowledge about editing and compiling

DEPARTMENT OF ECONOMICS

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BA IN ECONOMICS (HONOURS)

Programme Specific Outcome (PSO)

- PSO1.** To enable the students to think critically the behaviour of demand and supply, prices of different commodities and consumers' ends and means, the different kinds of concepts on prevailing markets and also to learn the method of applying mathematical and statistical techniques to economic theory.
- PSO2.** To enable the students to understand the basic concepts of macroeconomic policies including monetary and fiscal policies like investment, government budget, government expenditure, employment, consumption, international trade etc.
- PSO3.** To help the students to develop their innovative skills and critical thinking regarding localization, globalization and privatization etc. and the recent trends in global and Indian economy.

Course Outcome (CO)

Course Code Course Name	Course Outcome
ECOH 301 Intermediate Microeconomics-I	To enable the students to have a broad understanding of consumer and producer behaviour and also to learn the behaviour of competitive firm.
ECOH 302 Intermediate Macroeconomics-I	To enable the students to have a broad understanding of various alternative theories of output and employment determination in a closed economy in short-run and long-run. It also enables them to have a better understanding of various theoretical issues related to an open economy.
ECOH 303 Statistical Methods for Economics	To enable the students to apply the methods of statistical techniques to solve the problems in economic theory. They will learn measures of central tendency, probability and methods of sampling
ECOH 401 Intermediate Microeconomics-II	To enable the students to apply the techniques of mathematical tools and reasoning in general equilibrium, welfare and imperfect markets
ECOH 402 Intermediate Macroeconomics-II	To enable the students to have a broad understanding of long run dynamic issues like growth and technical progress. It also enables them to have a better understanding of micro-foundations to the various aggregative concepts.
ECOH 403 Introductory Econometrics	To enable the students to learn the econometric concepts and techniques. It enables them to learn the statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.
ECOH 501 Indian Economy-I	To enable the students to know the development of Indian economy during the pre-independence and post-independence period. It also helps them to analyze critically about the current issues of Indian economy.
ECOH 502 Development Economics-I	To enable the students to learn the different concepts and theories of development and the evolution of the term 'development'.

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ECODSE 501 Money and Financial Markets	To enable the students to learn the functioning of monetary and financial sectors of the economy. They also learn different reforms regarding financial and banking sector.
ECODSE 502 Public Economics	This paper helps the students to learn about the nature of government intervention and its implication for allocation, distribution and stabilization.
ECOH 601 Indian Economy-II	To enable the students to know the fiscal policy, agricultural development, industrial development and development of social sector and service sector during the post independence period. It also helps them to analyze critically about the current issues of Indian economy.
ECOH 602 Development Economics-II	To enable the students to learn the different concepts and theories of development and regional economics.
ECODSE 601 Political Economy-II	To enable the students to learn the social change, capitalism and state in capitalism.
ECODSE 602 Financial Economics	To enable the students to learn the economics of finance. It also helps the students to learn CAPM, and the Binomial Option Pricing models.
ECODSE 603 International Economics	To enable the students to learn the different theories of international trade, international monetary system, financial globalization and financial crises.
ECODSE 604 Comparative Economic Development (1850-1950)	To enable the students to learn the different theories of economic development. It also enables the students to know about comparative economic development during the period from 1850-1950
ECODSE 605 Environmental Economics	To enable the students to learn the different causes of environmental problems. It also helps the students to understand about how the decisions and actions change the environment as well as required skills about complex environmental issues.

BA with Economics (Pass Course)

Programme Specific Outcome (PSO)

- PSO1.** To enable the students to think critically the behaviour of demand and supply, prices of different commodities and consumers' ends and means, the different kinds of concepts on prevailing markets.
- PSO2.** To enable the students to understand the basic concepts of macroeconomic policies including monetary and fiscal policies like investment, government budget, government expenditure, employment, consumption, international trade etc.
- PSO3.** To help the students to develop their innovative skills and critical thinking regarding environment and the recent trends in global and Indian economy.

Course Outcome

Course Code Course Name	Course Outcome
ECODSE &GE 301 Principles of Macroeconomics-1	To enable the students to have a broad understanding of various alternative theories of national income accounting, determination of GDP and money.

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ECODSE &GE 401 Principles of Macroeconomics-II	To enable the students to have a broad understanding of IS-LM Analysis, GDP and Price level in short and long run, inflation, unemployment, BOP and international trade.
ECODSE & GE 501 Economic Development and Policy in India-I	To enable the students to know the major trends in aggregate economic indicators in India. It also helps them to analyze critically about the issues in growth, population, employment, development and sustainability of Indian economy.
ECODSE&GE 502 Money and Banking	To enable the students to learn the functioning of monetary and financial sectors of the economy. They also learn central banking and monetary policy, financial innovations, different reforms regarding banking sector.
ECODSE&GE 503 Environmental Economics	To enable the students to learn the different causes of environmental problems like global warming, ozone depletion. It also helps the students to understand about how the decisions and actions change the environment as well as required skills about complex environmental issues.
ECODSE& GE601 Public Finance	This paper helps the students to learn about the nature of government intervention and its implication for allocation, distribution and stabilization. It helps the students to learn about principles of taxation, public debt, public revenue and expenditure and govt. Budget.
ECODSE &GE 602 Economic History of India(1857-1947)	To enable the students to learn the key aspects of Indian economic development during the second half of the British colonial rule.
ECODSE & GE 603 Economic Development and Policy in India-II	To enable the students to know the agricultural development, industrial development and foreign trade during the post independence period. It also helps them to analyze critically about the current issues of Indian economy.
ECOSEC 301 Data Analysis)	This paper enables the students to learn about the collection and presentation of data. They will be able to learn how data can be summarized and analysed for drawing statistical inferences
ECOSEC 401 Understanding the Economic Survey and Union Budget	To enable the students to learn the basic concepts related to contemporary economic issues. It also helps the students to know about fiscal policy, government expenditure, and sources of govt. Revenue, deficits and union budget.
ECOSEC501 Entrepreneurship and Small Business Development	To enable the students to learn about the concept of entrepreneurship, different issues related to entrepreneurship and small business development
SEC 601 Insurance, Market and its product	To enable the students to learn about basics needed to operate in the insurance market in India. It also helps the students to know about enterprise risk management, financial risk management and strategic policies to mitigate risk.

Eastern Karbi Anglong College
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DEPARTMENT OF EDUCATION

B. A. IN EDUCATION (HONORS)

Program Outcome (PO)

- PO1.** The three years undergraduate program in Education (Honours) helps the students to understand the meaning, concept, aims and objectives, scope, functions, role of education, different dimensions of education and theoretical principles in education.
- PO2.** It also introduce the meaning and different perspectives of Philosophical, Sociological, Psychological, Technological Foundations of education.
- PO3.** The course help the students to work effectively in diverse field of teaching-learning process and also helps in applying various teaching-learning aids in classroom situation.

Program Specific Outcome (PSO)

- PSO1.** To develop the awareness of education in a present social context.
- PSO2.** To encompasses different perspectives of teaching, psychology and allied aspects.
- PSO3.** To acquaint students with the preparation and implementation of teaching methodologies.
- PSO4.** To enhance the knowledge and understanding pertaining to socio-cultural aspects.
- PSO5.** To familiarize learners with different dimensions of education such as the learner, the teacher and the curriculum.
- PSO6.** To expose students to modern trends of education – pertaining value education.
- PSO7.** To enlist the parameters of effective teaching and also to comprehend the aspects of teaching.

COURSE OUTCOME

Course Code Course Name	COURSE OUTCOME
EDCHCC -301 Sociology of Education	To enlighten students at providing in – depth knowledge on education as a social process and its role on social change and other related aspects of social groups, group dynamics, social stratification, social mobility, social control, leadership, culture, modernization, westernization and other alike social aspects.
EDCHCC – 302 Educational Technology	To enable students to understand the meaning, scope, importance and approaches of educational technology, the role of communication technology in classroom, open and distance mode of learning, to use in innovative teaching strategies of educational technology in teaching – learning process and also enable students to understand about application of information and communication technology in different fields of education.
EDCHCC – 303 Educational Management	To enable students to have a broad understanding of educational planning management and administration, institutional planning, educational supervision along with educational finance and administrative machinery both at central and state level with special reference to Assam.

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EDCHCC – 401 History and Contemporary System of Education in India	To enable students to acquaint with the salient features of education in India in Ancient and Medieval era, development of education in British India, significant development and reforms of education in Independent India along with the various stages of education prevalent in India as well as policies and programmes undertaken by various controlling authorities in order to ensure quality in education
EDCHCC -402 Measurement and Evaluation in Education	To enable students to have a broad understanding of the concept of measurement and evaluation in education through different types of tests construction as intelligence, personality, achievement, aptitude, interest and also acquainted with different evaluation procedures and examination reforms.
EDCHCC – 403 Curriculum Development	To enable students to acquaint with the basic concept of curriculum, curriculum development process, foundations of curriculum, curriculum planning at different levels along with basic skills in curriculum design, implementation and its construction.
EDCHCC – 501 Elements of Research and Statistics in Education	To equip students with basic knowledge and understanding of research in education, to use various statistics measures in analysis and interpretation of educational data and also to enable students to understand the basic concept of statistics including different statistical of procedures used in educational field.
EDCHH – 502 Guidance and Counselling	To provide knowledge about the meaning, scope, importance of guidance and counselling, various tools and techniques required for providing guidance and counseling along with different types of guidance programmes and their organization and also various approaches of counseling techniques.
EDCHH -601 Environmental Education	To make aware students about the environment, ecosystem and sustainable development, concept, scope and importance of environmental education and education for sustainable development, role of education for protecting environment.
EDCHCC -602 Psychological Practical and Project Work	Through this paper students will be able to learn different types of psychological experiments and tests and their implications in the field of education. It also help to acquire knowledge and skill using different tests in research work and also acquire practical knowledge on the investigation of any problem studied through field work.
EDCDSE – 501 Teaching – Learning Methods and Pedagogy	To enable students to understand the concept of pedagogy and its implementation in classroom, to understand the concept of teaching and also to develop apposite attitude towards teaching effectiveness and managing the classroom by applying various methods, techniques and devices of teaching.
EDCDSE – 502 Trends and Issues in Education	To provide adequate knowledge of the emerging issues and trends in education related to issues and problems of adult education, life long learning, vocationalisation of education, women education, population education, life skill education, inclusive education, globalisation, value education, peace education and human rights education.
EDCDSE – 601 Comparative Education	To enable students to know the meaning, nature, scope, need of comparative education along with to understand the comparative educational systems of the nations – India, USA, UK and Russia.

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EDCDSE – 602 Teacher Education	To acquaint students with the concept, aims, scope and development of teacher education and also acquaint with the different policies, practices and quality assurance in teacher education along with the needs and importance of in-service and pre-service training programmes and to familiarize with different organizations involved in teacher education in India.
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B.A. WITH EDUCATION (GENERAL)

Program specific outcome

- PSO1.** To develop the awareness of education in a present social context.
PSO2. To encompasses different perspectives of teaching, psychology and allied aspects.
PSO3. To acquaint students with the preparation and implementation of teaching methodologies.
PSO4. To enhance the knowledge and understanding pertaining to socio-cultural aspects.
PSO5. To familiarize learners with different dimensions of education such as the learner, the teacher and the curriculum.
PSO6. To expose students to modern trends of education – pertaining value education.
PSO7. To enlist the parameters of effective teaching and also to comprehend the aspects of teaching.
PSO8. To help in professional course of study through B.ED, M.ED.
PSO9. To develop a reasonable knowledge in psychology. They find employment in Private and Government school as a teacher or an administrator.

Course outcome

Course Code Course Name	Course outcome
EDCGE –(501) Principles of Education	To gain scientific knowledge about principles and theories of education, including concept, nature, scope, different aims of education and also to familiarize learners with different dimensions of curriculum and teaching, discipline, freedom along with latest trends.
EDCGE –(601) Foundation of Educational Psychology	To enable students to have a broad knowledge and understanding on psychological foundation of education and also to learn about psychology, educational psychology, to realize the relationship between education and psychology with its allied aspects as memory, forgetting, interest, attention, instinct, emotion, learning, motivation, personality, adjustment, intelligence and creativity.
EDCDSC/EDCGE -3 (301) Theories and Ideas of Philosophy in Education	To enable students to acquire basic knowledge and understanding on meaning, nature, aims, scope, functions of philosophy, role of educational philosophy, relationship between philosophy and education and also to be acquainted with Indian and Western schools of philosophy and their impact on education along with the educational thoughts of Indian philosophers and western philosophers.
EDCDSC/EDCGE -4 (401) Education and society	To enlighten students at providing in – depth knowledge on education as a social process and its role on social change and other related

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	aspects of social groups, group dynamics, social stratification, social mobility, social control, leadership, culture, modernization, westernization and other alike social aspects
EDCDSE – 501 History and Contemporary System of Education in India	To enable students to acquaint with the salient features of education in India in Ancient and Medieval era, development of education in British India, significant development and reforms of education in Independent India along with the various stages of education prevalent in India as well as policies and programmes undertaken by various controlling authorities in order to ensure quality in education
EDCDSE – 601 Trends and Issues in Education	To provide adequate knowledge of the emerging issues and trends in education related to issues and problems of adult education, life long learning, vocationalisation of education, women education, population education, life skill education, inclusive education, globalisation, value education, peace education and human rights education.
Skill Enhancement Course EDCSEC- 1 (301) Yoga and Life Skill Education	This paper helps to introduce the learners with the concept of holistic health, need and importance of physical education, philosophical bases of yoga, types of yoga and their importance in health and life and also help in acquiring and internalizing various life skills. This paper also motivates the learners to participate in yogic exercise and imbibe art of living skill.
EDCSEC – 2 (401) Application of ICT in Education	This paper helps to integrate ICT into teaching, learning, administration and evaluation, to develop information management, communication and collaborative skills.
EDCSEC -3 (501) Application of Teaching – Learning Skill in Classroom	This paper helps in understanding the concept, nature and various skills of teaching – learning process.
EDCSEC -4 (601) Leadership and Organisational Skill	This paper helps in understanding the concept, nature and various skills of leadership and also to develop leadership and group behavior among the learner.

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DEPARTMENT OF ENGLISH

B.A. IN ENGLISH (HONOURS)

PROGRAM SPECIFIC OUTCOME (PSO)

- PSO1.** To classify a specific genre of literature and give illustration of the characteristics from literary texts and thereby explore literary works to find out the structure and its significance.
- PSO2.** To understand the various components of the linguistic structures of the language
- PSO3.** To familiarize the students with the literatures from different corners of the world either as translations of other languages in English or as New Literatures in English.
- PSO4.** It helps the students develop their methodological skills and specific concepts in a literary text in an analytical and critical way through the study of Literary Theory Criticism.

COURSE OUTCOME

COURSE CODE COURSE NAME	COURSE OUTCOME
ENG-C-5: British Literature:18 th Century	To acquaint students with representative poems, dramas and fictional prose writings from 18 th Century through the study of selected texts.
ENG-C-6: European Classical Literature	To enable students to have a broad understanding of the classical texts of European literature and to acquaint them with the seminal poetic voices and the drama of the classical period through the study of selected texts.
ENG-C-7: Women's Writing	To enable students to have a broad understanding of the female psyche through study of texts written by women writers.
ENG-C-8: British Romantic Literature	To acquaint students with representative poems and fictional prose writings of the Romantic age through the study of selected texts.
ENG-C-9: British Literature:19 th Century	To enable students to have a broad understanding of the history of English Literature from 19 th Century and to acquaint them with the seminal poetic voices through the study of selected texts.
ENG-C-10: Indian Classical Literature	To enable students to have a broad understanding of the classical texts of Indian literature and to acquaint them with the seminal poetic voices and the drama as well as fictional prose of the classical period through the study of selected texts.
ENG-C-11: British Literature: The Early 20 th Century	To enable students to have a broad understanding of the history of English Literature of the period and to acquaint them with the seminal poetic voices through the study of selected texts.
ENG-C-12: Modern European Drama	To enable students to have a broad understanding of modern drama and its techniques through the study of selected literary texts

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ENG-C-13: Post Colonial Literature	To enable students to have a broad general understanding of Postcolonial Literature through the study selected literary text.
ENG-C-14: Popular Literature	To enable students to have a broad understanding of Popular Literatures in English through the study selected literary text.

B.A. WITH ENGLISH

PROGRAM SPECIFIC OUTCOME

- PSO1.** To classify a specific genre of literature and give illustration of the characteristics from literary texts and thereby explore literary works to find out the structure and its significance.
- PSO2.** To understand the various components of the linguistic structures of the language.
- PSO3.** To familiarize the students with the literatures from different corners of the world, either as translations of other languages in English or as New Literatures in English.
- PSO4.** It helps the students develop their methodological skills and specific concepts in a literary text in an analytical and critical way through the study of Literary Theory and Criticism.
- PSO5.** To familiarize the students with some of the selected areas of English Grammar which are known to cause difficulty to learners, to help them overcome some common mistakes and also to teach them the skill of appreciation of English Prose and Poetry through the study of the prescribed texts, and develop the skills of written & Spoken communication.
- PSO6.** To familiarise students with some skill enhancement courses of the art and craft of creative writing.
- PSO7.** To teach them the soft skills of teamwork, adaptability and leadership.
- PSO8.** To familiarise them with business Communication and technical writing.

COURSE OUTCOME

COURES CODE COURSE NAME	COURSE OUTCOME
GE-(501) British Literature1 (The Elizabethan Period to the Eighteenth Century	To enable students to have a broad understanding of the history of English Literature and to acquaint them with the seminal poetic voices through the study of selected texts.
GE-(601) British Literature II (the Romantics and the Victorians	To acquaint students with representative dramas and fictional, non-fictional prose writings through the study of selected texts
DSC-3/GE-3(101)GE (301) British Literature1(The Twentieth Century)	To enable students to have a broad understanding of the history of English Literature and to acquaint them with the seminal poetic voices through the study of selected texts.
DSC-4/GE-401 Indian English Literature	To enable students to have a broad general understanding of Indian Writing in English through the study selected literary text.
DSE-1: Modern Indian Writing in English in English Translation	After the completion of this course, the participants would gain insight into “Indianness” through representative works. Students will be able to identify the relationship between Indian Writing in English and its social context. They will be able to critically respond to Indian texts.

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DSE-2:British Literature: Post World War II	Analyse the cultural and literary characteristics of post world-war-II modernity and trace the emergence of a postwar and postcolonial sensibility and its influence on contemporary British literature
DSE-3: Literary Criticism	To enable students to have a broad understanding of a few seminal critical formulations in the study of literature
DSE-4:World literatures	To acquaint students with World Literatures in English. They will be able to evaluate the impact of indigenous issues/concerns on literary representation. Finally, they will be able to appreciate that world literature, with all its individual fragments, represents collective humanity.
ENGL1 (101)	To acquaint the students with grammar, essays, short stories and composition.
ENGL11 (102)	To acquaint the students with selected poems, short stories and essays.
Alternative English-1(301)	To enable students to develop the skill of appreciating English Literature through the study of selected texts.
Alternative English-11(401)	To develop appreciation of poetry and understanding of short stories.
SEC-1: Creative Writing SEC-2:Soft Skills SEC-3: Business Communication SEC-4: Technical Writing	The students will learn to handle spoken. and written communication. They will learn to write resumes, letters of application, business letters. They will be given an understanding of writing news reports, narration of experience, interview techniques, essay and paragraph writing.

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DEPARTMENT OF HISTORY

BA IN HISTORY (HONOURS)

PROGRAM SPECIFIC OUTCOME

- PSO1.** Understand Indian Culture & Civilization – Ancient, Medieval & Modern.
- PSO2.** In depth Study of Social formation & Cultural Patterns of Ancient World & Medieval World.
- PSO3.** Focus on the Rise of Modern West.
- PSO4.** Emphasis given on the History of Modern Europe.
- PSO5.** Focus on the History of North-East India.

COURSE OUTCOMES:

- CC 5 : History of India III [750 to 1206].**
Students get to know about the rise of Rajputs ; the political structures of the Cholas, Palas, Arab conquest of Sind; religion, cultural developments, trade & commerce, society of the period under study.
- CC 6 : Rise of Modern West – I.**
Students will learn about transition from feudalism to capitalism; early colonial expansion ; Renaissance ; economic developments of 16th century ; emergence of European state system.
- CC 7 : History of India IV [1206 to 1550]**
Familiarise the students with the political structures , society , economy ,religion & culture of Sultanate period.
- CC 8: Rise of Modern West – II.**
Study in detail about the English Revolution; European politics in the 18th centuy American Revolution ; preludes to Industrial Revolution.
- CC 9: History of India – V [1550 to 1605]**
Detailed study about the Mughal period under Babur & Akbar
- CC 10 : History of India – VI [1605 to 1750]**
Continuation of the Mughal rule under Jahangir , Shah Jahan , Aurangzeb with emphasis on regional politics , religion , trade & commerce.
- CC 11 : History of Modern Europe [1780 to 1939]**
Students get to study about the French Revolution & Restoration ; Capitalist Industrialization & social & economic transformation ; varieties of Nationalism.
- CC 12 : History of India – VII [1750 to 1857]**
Learn about the society, economy , polity of India in the mid 18th century ; expansion & consolidation of colonial power ; popular resistance that took place during that period.
- CC 13 : History of India - VIII [1857 to 1950]**
Study the cultural changes, social & reform movements. Emphasis is given on the Indian National Movements; Independence, Partition & Emergence of a New State.
- CC 14 : Social & Cultural Transformation in Modern Europe.**

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Students will get to know about Democracy, Feudalism, Imperialism ,the two World Wars , Major intellectual trends.

DSE – 3 : History of Assam [1228 – 1826]	Students learn about concept of History.
DSE – 4 : History of Assam [1826 – 1947]	Focus on the history of North-East India.

B.A. WITH HISTORY (GENERAL)

PROGRAM SPECIFIC OUTCOMES

PSO1. Understand Indian Culture & Civilization – Ancient Medieval & Modern.

PSO2. In depth study of World History with special reference to Europe & China.

PSO3. Understand the different facets of the Gender Studies in India.

PSO4. Special focus on Archaeology, Museology , Tea Industry in Assam , Cultural Tourism in India.

COURSE OUTCOMES

DSC – 3 : History of India from 1206 to 1707	To enable the students to study about the sources, society, polity, religious movements , economy of the different periods of Indian history.
DSC – 4 : History of India from 1206 to 1707 to 1950	Emphasis is given on the Indian National Movement

DSE – 1: **History of China [1839 – 1982]**

Acquaint the students with the Opium Wars ,Chinese Revolutions , Civil Wars in China , Rise of Communism.

DSE – 2: **History of Europe [1789 - 1914]**

Familiarise the students about the French Revolution , Napoleon , Metternich , Bismarck , Mussolini , Balkan Wars & the First World War.

GE – 1 : **Women Studies in India.**

Make the students aware about women studies ,gender relations in pre-colonial & colonial India , women education , health & women participation in Environmental issues & National Movement.

GE – 2 : **History & Development of Education in India.**

Students will get to learn about the development of education in ancient , Medieval & modern India , Contribution of Christian Missionaries & East India Company , literacy programmes in India.

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DEPARTMENT OF POLITICAL SCIENCE

B.A. IN POLITICAL SCIENCE (HONS.)

PROGRAMME SPECIFIC OUTCOME

Students completing the B.A (Hons.). in political science will be able to :

- PSO1.** Comprehend the basic structures and processes of government systems and theoretical underpinnings
- PSO2.** Helped in understanding the issues related to society and politics.
- PSO3.** Can help in the society in bringing unity, peace and harmony through their understanding of the subject.
- PSO4.** Demonstrate critical thinking, including the ability to form argument, detect fallacies and have in depth understanding of the public policies.
- PSO5.** Have grasp on history and politics of the country.
- PSO6.** Understand international politics in a better way and help in formulating foreign policy.

COURSE SPECIFIC OUTCOME FOR HONORS:

Semester	Course Code	Name of Course	Course Outcome
3rd	PLSHCC 301T	Introduction to Comparative Government and politics	Have a knowledge of political system like capitalism, socialism, decolonization process. Will understand constitutional development of Britain, Nigeria, Bangladesh and China. Will have ability to critically analyse political system.
	PLSHCC 302T	Perspectives on public administration	The student will have better knowledge about how administrative system evolved and how it works.
	PLSHCC 303T	Perspective on international relations and world history	Students will be equipped with the knowledge of international politics. Have better understanding about the causes and consequences of key events like world war, cold war and post cold war world politics.
	PLSSEC 301T	Democratic awareness with legal literacy	Have a good grasp of India's legal system, its functioning and brief understanding of laws applicable in India. Students will have practical knowledge of judicial system due to their visit in court and legal aid centre.
4th	PLSHCC 401T	Political Processes And Institutions in Comparative Perspective	Student will be equipped with the knowledge of electoral system, party system, nation states. They can compare the process and systems of politics.

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	PLSHCC 402T	Public policy & Administration in India	Students will have an idea of India's administrative system and financial management.
	PLSHCC 403T	Global Politics	The student will get the idea of socio-political, economic and technological dimension of globalisation and its overall impact.
	PLSSEC 401T	Public opinion and Survey Research	Students will understand the real politics. They will have a grasp of scientific research and quantitative data analysis.
5th	PLSHCC 501T	Classical political philosophy	Student will have good grasp over western classical philosophy including ideas of Plato, Aristotle, Plato, Hobbes etc.
	PLSHCC 502T	Indian political thought- I	Students will understand the diversity of theories propagated by Indian political thinkers.
	PLSDSE - 501T	India's Foreign Policy In A Globalizing World	Student will be equipped with the foreign policy of India along with its foreign policy and relations with some major countries of the world.
	PLSDSE C 502T	Human Rights in a Comparative Perspective	Students will understand different perspective of Human Rights.
6th	PLSHCC 601T	Modern Political Philosophy	It will help to understand society and politics from a new perspective. Will help to formulate different policies by understanding ideas of thinkers like Rousseau, Marx, Gramsci etc.
	PLSHCC 602T	Indian Political Thought - II	It will help to apply their ideas in the present day situation and analyse the ideas of Gandhi , Roy, Ramabai, Ambedkar, Nehru, Iqbal, Savarkar and Lohia are still relevant in present situation.
	PLSDSE 601T	Development process and social movements in contemporary India	It will help them in understanding how India developed since independence. Make them understand socio-economic and political situation of India and social movements that affected the Indian society and economy since independence.

B.A. WITH POLITICAL SCIENCE (GENERAL PROGRAMME)

- PSO1.** This course helps to understand key aspects of political theory and its relevance in the present context. This course is designed to help students understand certain key issues that are important in the contemporary period.
- PSO2.** This course will help the students of other honours and General course to have a better understanding of the political science, its different theories and political system of different countries. From 1st to 4th Sem the students of other honours can take GE Political Science. General Programme students unrelated to Political Science subject can take this course in 5th and 6th Sem.

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COURSE OUTCOME

Semester	Course Code	Name of Course	Course Outcome
3rd	PLSDSC301T	Comparative Government and Politics	It will enhance a student's ability to compare political system of different countries. Contemporary debates on nature of states are a key element of the subject.
3rd	PLSSEC301T	Legislative Support	A student will know law-making process including Budget. Will understand powers and functions of people's representative at different level.
4th	PLSDSC401T	Introduction to international Relations	Help in evaluating global political events, in formulating policies and helps in understanding dynamics and forces at work in international relations. Evaluate the impact of global institutions and development in domestic level.
4th	PLSSEC401T	Public Opinion and Survey Research	The Student will know use of different research technique to formulate research question and how to make scientific study of public opinion.
5th	PLSSEC 501T	Democratic Awareness and legal literacy	This will helped them to have a brief understanding of constitution and laws of India. Introduce with courts and judicial system of India and its functioning
5th	PLSDSE501T	Themes in comparative political theory	Give a grasp of different political theme and comparative study of the same.
6th	PLSSEC601T	Conflict and Peace Building	Helps a student in understanding what is conflict and how it can be resolved.
6th	PLSDSE 601T	Administration and public policy: concepts and theories	Give a concept of how administrative systems develop and functioned.

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DEPARTMENT OF SOCIOLOGY (CBCS)

B.A. IN SOCIOLOGY (Honors)	
PROGRAM OUTCOME	The three year undergraduate program in sociology (honours) helps the students to understand the meaning, concept, aims and objectives, scope, different dimensions of sociology . It emphasizes on the theoretical aspects of sociology with different thought of social thinkers.
PROGRAM SPECIFIC OUTCOME	PSO1: Like other subject of humanities, sociology is a subject covering the practical and vital aspect of any society. PSO2: Study of sociology as discipline , enable a student to acquire a deep insight into different sociological change, the working dynamics underneath the change and its future probabilities. PSO3: The study helps to form a scientific attitude dispensing the narrow – boundary or orthodox way of thinking and reasoning.

COURSE OUTCOME

CORE COURSES	
SOC-C301 Foundation Of Sociological Thought	This paper emphasizes on the theoretical aspects of sociology with different thought of social thinkers.
SOC-C302 Rural Sociology	The course aims to provide knowledge on sociological scholarship as a separate cognitive discipline on rural dimensions in India. Its helps to develop an understanding about the fundamental social reality, social processes and changes in development perspectives of rural communities.
SOC-C303 Development Of Sociological Thought	This paper helps to introduce the learners with the concepts of the development of sociological thought through the growth of functionalism and conflict theory.
SOC-C401 Kinship , Family And Marriage	To enable students to acquaint with the basic concepts of kinship, family and marriage in the perspective of society.
SOC-C402 Emerging Social Cencerns In India	To enable students to indentify and analyze emerging social issues and problems from sociological perspectives.
SOC-C403 Urban Sociology	This paper helps to provide knowledge on distinctness of sociological scholarship as a separate cognitive discipline on urban dimensions in India and also help in developing an understanding about the fundamental social reality, social processes and changes seen in developmental perspectives of urban centers and communities.
SOC-C501 Social Research Methods-1	Through this paper students will be able to learn the nature of social phenomena, the issues involved in social research and the ways and means of understanding and studying social reality.
SOC-C502 Social Changes In India	The objective of the paper is to introduce the student with various processes of social changes which have Taking place in Indian society.

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SOC-C601 Social Research Method- li	To provide adequate knowledge of methods, tools and techniques of data collection, presentation and analysis of data in research.
SOC-C602 Sociology Of North-East India	This paper aims to explore and acquaint students about some vital issues and dimensions of the complex society they live in. This paper help the students to understand the genesis of the problems of the region and help suggesting viable measures to address / redress these issues and problems for an all round , inclusive development and change in the north-east Indian society.
SOC-SEC401 Technique Of Social Research	This paper aims to enhance the skills of students to understand and use techniques, research design, methods of data collection and data analysis employed by social scientists to investigate social phenomena.
SOC-E501 Sociology Of Marginalized Communities	This paper aims at sensitizing students to significance of sociological study of Dalit, tribal and nomadic caste and tribe . focus is on groups and communities who languish with poverty , deprivation and discrimination over a long period of time .
SOC-E502 Sociology Of Development	To make aware students about the major concepts and theories of development and issues related to development in the developing countries.
SOC-E601 Sociology Of Communication	This paper helps in understanding the issues pertaining to communication, media and its role in social life and development.
SOC-E602 Indian Sociological Traditions	This paper primarily provides perspectives of key Indian sociologists on different issues .

PROGRAM SPECIFIC OUTCOME

BA in Sociology General	PSO1: Like other subject of humanities, sociology is a subject covering the practical and vital aspect of any society.
	PSO2: Study of sociology as discipline, enable a student to acquire a deep insight into different sociological change, the working dynamics underneath the change and its future probabilities.
	PSO3: The study helps to form a scientific attitude dispensing the narrow – boundary or orthodox way of thinking and reasoning.

COURSE OUTCOME

SOC-GE301 Society In India	This paper throws light on Indian society , basic institution and the rich heritage of Indian culture.
SOC-GE401 Foundations Of Sociological Thought	This paper emphasizes on the theoretical aspects of sociology with different thought of social thinkers.
SOC-SEC501 Techniques Of Social Research	This paper aims to enhance the skills of students to understand and use techniques , research design , methods of data collection and data analysis employed by social scientists to investigate social phenomena.

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SOC-SEC601 Theory And Practice Of Development	This paper aims to familiarize students with the arguments of development theory in the decades of 1980s onwards and equip them with some of the methodology in the development practices.
SOCE501 Sociology Of Tribes	Through this paper students will be able to learn the comprehensive profile of tribals in terms of their distribution and concentration, demographic features , social structure and cultural patterns.
SOCE601 Rural Sociology	This paper aims to provide knowledge about the fundamental social reality , social processes and change in developmental perspectives of rural communities
SOC-GE501 Introduction To Sociology	This paper enables the students to study social aspects and its growth and development systematical as a disciplinary study .
SOC-GE601 Basic Concepts In Sociology	This paper inspires to student to have a insight on theoretical basic concepts on sociology and to build up a scientific understanding of the society.

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DEPARTMENT OF BOTANY

PROGRAMME SPECIFIC OUTCOME B.Sc. (GENERAL)
BOTANY UNDER CHOICE BASE CREDIT SYSTEM

After successful completion of three year degree programme in Botany students will be able to learn following things:

Programme Outcomes	PO-1. Students know about different types of lower and higher plants along with their economic and ecological importance. PO-2. Student can be able to describe morphological, anatomical and reproductive characteristics of plant and also identified different plant. PO-3. They know economic importance of various plant products and artificial methods of plant propagation and use of modern Botanical techniques and decent equipments.
Programme Specific Outcomes	PSO-1. Students acquire fundamental botanical knowledge through theory and practical. PSO-2. Able to explain basic life of plants, their reproduction and survival in nature. PSO-3. Helped to understand role of different types of living and fossil plants in our day to life. PSO-4. Helped in creating awareness about cultivation, conservation and sustainable utilization of biodiversity. PSO-5. To know advance techniques of plant sciences like tissue culture techniques, Phytoremediation, plant disease management, formulation of new herbal drugs etc. PSO-6. Students able to start practices such as nursery, mushroom cultivation, biofertilizer production, fruit preservation and horticulture.

Course outcome of B.SC (Pass) Botany (CBCS)

1. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology and life history.
2. Students understand the ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.
3. Create select and apply appropriate techniques, resources, and modern instruments and equipments for biochemical estimation, cellular and physiological activities of plants with an understanding of the application and limitations.
4. Understand the impact of the plant diversity in society and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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DEPARTMENT OF CHEMISTRY

Programme Specific Outcomes of CBCS CHEMISTRY

1. B.Sc. (Honours) CHEMISTRY
2. B.Sc. (General) CHEMISTRY

- PSO1. Students become able to emphasize and gain knowledge on
- PSO2. Atomic structure, bonding and periodicity, different states of matter and their mathematical treatment,
- PSO3. Basic organic chemistry, hydrocarbon, stereochemistry and conformational analysis,
- PSO4. Chemical Thermodynamics, their mathematical expressions and Applications,
- PSO5. Chemistry of s-, p- block Elements, Noble gases, inorganic polymers and Metallurgy,
- PSO6. The synthesis and properties of organic compounds containing Halogen and Oxygen Containing Functional Groups,
- PSO7. Phase Equilibria, Chemical Kinetics, catalysis and Surface chemistry,
- PSO8. Coordination Chemistry and its Applications, extended to Biological systems
- PSO9. The preparation and properties of different classes of heterocyclic organic compounds. Emphases is given to heterocyclic compounds of both synthetic and natural origin.
- PSO10. Electrochemistry, various laws governing electrochemical processes and their applications,
- PSO11. The selected types of naturally occurring organic compounds, their synthesis, physiological importance and pharmaceutical applications
- PSO12. Quantum Chemistry & Molecular Spectroscopy and Photochemistry,
- PSO13. Organometallic compounds, their chemistry, application in catalysis and inorganic reaction mechanisms,
- PSO14. Application of Spectroscopy (UV-Vis, IR and NMR), Carbohydrates, Dyes and Polymers (with preparation and applications
- PSO15. Green Chemistry and it's importance towards attaining sustainable environment and sustainable society etc.

CBCS: B. Sc. (Honours) with CHEMISTRY-CORE COURSE

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Sl No	Semester	Course Code	Course Name	Course Outcome
1	Semester-III	:CHEMISTRY-C-301	(Inorganic Chemistry – II)	Students will gain knowledge about : Chemistry of s- and p- Block Elements, noble gases, acids and bases, inorganic Polymers and General Principles of Metallurgy
2		CHEMISTRY-C-301-LAB	(Inorganic Chemistry – II)	Students will gain knowledge about Iodo- / Iodimetric Titrations and inorganic preparations.
3		CHEMISTRY-C-302	Organic Chemistry – II	Students will gain knowledge about Chemistry of Halogenated Hydrocarbons , Alcohols, Phenols, Ethers and Epoxides, Carbonyl Compounds, Carboxylic Acids and their Derivatives and other organic compounds.
4		CHEMISTRY-C-302-LAB	Organic Chemistry – II)	Students will gain knowledge about tests for functional groups and organic preparations.
5		CHEMISTRY-C-303	(Physical Chemistry – III)	Students will gain knowledge about : Phase Equilibria , chemical kinetics, Catalysis and surface chemistry
6		CHEMISTRY-C-303-LAB	Physical Chemistry – III)	Students will gain knowledge about the study of the equilibrium of the reactions by the distribution method and Studying the kinetics of the reactions.
7		CHEMISTRY-SEC-301	Analytical Clinical Biochemistry	Students will learn about some important biomolecules such as carbohydrates, proteins and enzymes, lipids and hormones. Students will also gain knowledge about composition, collection and preservation of blood and urine and about the biochemistry of some disease.
8	Semester-IV	CHEMISTRY-C-401	Inorganic Chemistry – III	students will gain knowledge about Coordination Chemistry, Transition Elements, Lanthanoids and Actinoids and Bioinorganic Chemistry
9		CHEMISTRY-C-401-LAB	(Inorganic Chemistry – III)	students will gain knowledge about gravimetric analysis and inorganic preparations.
10		CHEMISTRY-C-402	Organic Chemistry – III)	students will gain knowledge about Nitrogen Containing Functional Groups ,Heterocyclic Compounds, Alkaloids and terpenes.
11		CHEMISTRY-C-402-LAB	(Organic Chemistry – III)	students will gain knowledge about qualitative organic analysis.
12		CHEMISTRY-C-403	Physical Chemistry – IV)	students will gain knowledge about Conductance, Electrochemistry and Electrical & Magnetic Properties of Atoms and Molecules

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13		CHEMISTRY-C-403-LAB	Physical Chemistry – IV)	students will gain knowledge about pH metric titration, determining strength of the given acid conductometrically using standard alkali solution, Determination of equivalent conductances, degree of dissociation and dissociation constant, Conductometric titration, pH metric titration and Potentiometric titration
14		CHEMISTRY-SEC-401	Fuel Chemistry	Students will attain the knowledge about renewable and non-renewable energy sources, Coal, petroleum, petrochemical industry, petrochemicals, lubricants and their compositions/properties/applications.
15	Semester-V	CHEMISTRY-C-501	Organic Chemistry – IV	students will gain knowledge about Nucleic Acids, Amino Acids, Peptides and Proteins, enzymes, lipids and Pharmaceutical Compounds: Structure and Importance
16		CHEMISTRY-C-501-LAB	Organic Chemistry – IV)	students will gain knowledge about Organic synthesis and Organic quantitative analysis
17		CHEMISTRY-C-502	Physical Chemistry – V	students will gain knowledge about Quantum Chemistry, Molecular Spectroscopy and Photochemistry
18		:CHEMISTRY-C-502-LAB	Physical Chemistry – V)	students will gain knowledge about Verification of Lambert-Beer's law and determining the concentration of individual species in a given mixture, Studying of the kinetics of iodination of propanone in acidic medium, Determination of the dissociation constant of an indicator (phenolphthalein) and Study of the kinetics of interaction of crystal violet/ phenolphthalein with sodium hydroxide
19		CHEMISTRY-DSE-501	Analytical Methods in Chemistry	Students will learn about the practical aspects of chemistry, tools and techniques used for analytical purpose such as Qualitative and quantitative aspects of analysis, UV-Visible and IR Spectrometry, Flame Atomic Absorption and Emission Spectrometry, Thermal and electro-analytical methods of analysis, Separation techniques
20		No.:CHEMISTRY-DSE-501-LAB	Practical	Student will learn about practical application of analytical tools and techniques such as use of flame photometer for determination of Na, Li, Ca in cola drinks, fruit juices etc.; chromatographic separation of components present in mixtures; determination of DO, COD of water samples.

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21		CHEMISTRY-DSE-502	Green Chemistry	Students will learn about the environment and sustainability related issues which brings the idea regarding designing environmentally benign processes/reactions, use and designing biodegradable/environment friendly products instead of environmentally hazardous substances.
22		CHEMISTRY-DSE-502-LAB	Practical	This course enables the students to know about the safer state materials such as Vitamin C, tincture of iodine, H ₂ O ₂ , using Renewable Resources, use of benign, cost effective and environment friendly solvent and processes instead of hazardous chemicals and processes.
23	Semester-VI	CHEMISTRY-C-601	Inorganic Chemistry – IV	students will gain knowledge about Organometallic Compounds , Reaction Kinetics and Mechanism, Catalysis by Organometallic Compounds and Principles in Qualitative Analysis
24		CHEMISTRY-C-601-LAB	(Inorganic Chemistry – IV)	students will gain knowledge about Qualitative Inorganic Analysis
25		CHEMISTRY-C-602	Organic Chemistry – V)	students will gain knowledge about Organic Spectroscopy, Carbohydrates, dyes and polymers
26		CHEMISTRY-C-602-LAB	Organic Chemistry – V)	Students will gain knowledge about Extraction of caffeine from tea leaves, Preparation of sodium polyacrylate., Preparation of urea formaldehyde, Analysis of carbohydrates: aldoses and ketoses, reducing and non-reducing sugars. Identification of simple organic compounds by IR spectroscopy and NMR spectroscopy and preparation of methyl orange.
27		CHEMISTRY-DSE-601	Inorganic Materials of Industrial Importance	Students will attain knowledge regarding industrially popular materials such as silicates (glass, ceramics, cement), fertilizers, surface coating materials (paints, metallic coating), batteries (Pb acid, Li-Battery, Solid state electrolyte battery. Fuel cells, Solar cell and polymer cell) and alloys (properties, and uses)
28		CHEMISTRY-DSE-601-LAB	Practical	Students will learn about determination of acidity of fertilizers, estimation of some specific components present in fertilizers, preparation of alloy , cement analysis.
29		CHEMISTRY-DSE-602	Dissertation	This will enhance the idea of practical application of chemistry in day to day life, in the environment, in industry and in the research field etc.

CBCS: B. Sc. with Chemistry- Discipline Specific Core (DSC) Course

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Sl no	Semester	Course code	Course Name	Course Outcome
1	Semester-III	CHEMISTRY-DSC-301	Solutions, Phase Equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry-II	Students will gain knowledge on Solutions and Phase Equilibrium; Conductance and Electrochemistry; Carbonyls (aliphatic and aromatic) and Carboxylic acids ; Amines and Carbohydrates, Amino Acids, Peptides and Proteins
2		CHEMISTRY-GE-301		
3		CHEMISTRY-DSC-301-LAB	Practical	Students will gain knowledge on practicals of phase Equilibria and conductance; and qualitative analysis of organic functional groups
4		CHEMISTRY-GE-301-LAB		
5	Semester-IV	CHEMISTRY-DSC-401	Transition metals, Coordination Chemistry, IV States of Matter and Chemical Kinetics	Students will gain knowledge on Transition Series Elements: Coordination Chemistry; Gases, Liquids and Solids; Liquids and Solids and Chemical Kinetics
6		CHEMISTRY-GE-401		
7		CHEMISTRY-DSC-401-LAB	Practical	Students will gain knowledge on Semi-micro qualitative analysis (two anions and two cations and excluding insoluble salts); complexometric titrations; gravimetric titration; flame photometry and practicals on surface tension, viscosity and chemical kinetics
8		CHEMISTRY-GE-401-LAB		
9	Semester-V	CHEMISTRY-DSE-501	Analytical Methods in Chemistry	Students will gain knowledge on Qualitative and Quantitative aspects of Analysis ; UV-Visible and IR Spectrometry; Flame Atomic Absorption and Emission Spectrometry; Thermal and Electro-analytical Methods of Analysis; and Separation Techniques
10		CHEMISTRY-DSE-501-LAB	Practical	Students will gain knowledge on different chromatographic techniques like TLC, Paper Chromatography, ion exchange etc; soil analysis, cod etc
11		CHMSEC501T	Chemistry of Cosmetics and Perfumes	Students will learn about Cosmetics and Perfumes, preparation , use, formulations, activities, benefits and adverse effects etc.

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12	Semester-VI	CHEMISTRY-DSE-601	Inorganic Materials of Industrial Importance	Students will gain knowledge on Silicate Industries; Fertilizers; Surface Coatings: Batteries and Alloys
13		CHEMISTRY-DSE-601-LAB	Practical	Students will gain knowledge on analysis of fertilizers; alloys, Cement and Preparation of pigments
14		CHMSEC601T	Pesticide Chemistry	Students will learn about pesticides (natural and synthetic), preparation, uses, formulations, activities, benefits and adverse effects etc.

DEPARTMENT OF PHYSICS

Program Specific outcome under CBCS:

Program	Program Specific Outcome
B.Sc. Physics (General)	The aim of the programme B.Sc. (General) is to provide the students with the theoretical concepts and practical applications of classical and modern Physics. The focus of this course is to develop a thorough understanding of various areas of classical physics.

Course Outcome for B.Sc. Physics (General) under CBCS:

Course Code	Course Name	Course Outcome
PHYSICS -DSC-301	Thermal Physics And Statistical Mechanics	This course provides knowledge about basic laws of thermodynamics, and introduces related topics like entropy, thermodynamic potentials, kinetic theory and basic statistical mechanics to the students.
PHYSICS -DSC301-LAB	Thermal Physics And Statistical Mechanics (Lab)	Through this course students learn about experimental determination of constants like coefficient of thermal conductivity, linear expansion, and thermal coefficient of resistance.
PHYSICS -SEC-301	Physics Workshop Skill	The aim of this course is to enable the students to get familiar and experience with various mechanical and electrical tools through hands-on mode.
PHYSICS -DSC-401	Waves And Optics	Students would learn basic concepts of waves like superposition, velocity, and also topics from wave optics like interference, diffraction and holography.

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PHYSICS -DSC- LAB	Waves And Optics (Lab)	Students would get familiar with practical measurement of wavelength and frequency of a wave, and also refractive index of transparent material.
PHYSICS -SEC-401	Electrical Circuits And Network Skills	The aim of this course is to enable the students to design and troubleshoot the electrical and electronics circuits, networks and appliances through hands-on mode.
PHYSICS -DSE-501	Classical Dynamics	The aim of the course is to get the student acquainted with the Lagrangian and Hamiltonian formalism of classical mechanics, and also applications like small oscillations and fluid dynamics.
	Biological Physics	The course introduces students to the basics of biological physics.
PHYSICS -SEC-501	Basic Instrumentation Skills	The course is to get exposure to various types of instruments and their usage through hands-on mode.
PHYSICS -DSE-601	Astronomy And Astrophysics	The course provides very basic concepts in Astronomy and Astrophysics to understand stellar properties, solar system, galaxies and basic cosmology.
	Nano- Materials And Applications	The aim of the course is to introduce some of the basic concepts of nano-materials, their fabrications and their applications.
PHYSICS -SEC-601	Renewable Energy And Energy Harvesting	The aim of this course is to impart theoretical knowledge about various renewable sources of energy like solar, hydro power, ocean, geothermal etc and various energy harvesting methods to minimize environmental adversities of fossil fuel uses. Hands on training on related topics will also be given.

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DEPARTMENT OF MATHEMATICS

The outcome of the mathematics degree programs is to equip students with analytic and problem solving skills for careers and graduate work. Classes develop student abilities and aptitudes to apply mathematical methods and ideas not only to problems in mathematics and related fields such as the sciences, computer science, actuarial science, or statistics. Students are encouraged to develop intellectually and to become involved with professional organizations.

Programme specific outcome

Program	Program Specific Outcome
B.Sc. Mathematics(Honours)	The overall aims of B.A./B.Sc. (Hons) Mathematics and B.A./B.Sc. with Mathematics as a subject are to • create deep interest in learning mathematics. • develop broad and balanced knowledge and understanding of definitions, concepts, • principles and theorems. familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences. enhance the ability of learners to apply the knowledge and skills acquired by them • during the programme to solve specific theoretical and applied problems in mathematics.
B.Sc. Mathematics (General)	The aim of the programme B.Sc.(General) is to equip the students to familiar with the basic concepts of algebra, geometry, Linear algebra, Real Analysis and beginning level of calculus.

Course Outcome for B.Sc. Mathematics (Honours) under CBCS:

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Sl.No.	Course Code	Course Name	Course Outcome
1.	Mathematics-C-301	Theory Of Real Functions	Understand many properties of the real line $\mathbb{R}$ and learn to define sequence in terms of functions from $\mathbb{R}$ to a subset of $\mathbb{R}$. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
2.	Mathematics-C-302	Group Theory	Recognize the mathematical objects called groups. Link the fundamental concepts of groups and symmetries of geometrical objects. Explain the significance of the notions of cosets, normal subgroups, and factor groups.
3.	Mathematics-C-303	PDE and system of ODE	Apply a range of techniques to solve first & second order partial differential equations. Model physical phenomena using partial differential equations such as the heat and wave equations.
4.	Mathematics-C-401	Numerical Methods	Obtain numerical solutions of algebraic and transcendental equations. Find numerical solutions of system of linear equations and check the accuracy of the solutions. Learn about various interpolating and extrapolating methods.
5.	Mathematics-C-402	Riemann Integration and Series of Function	Learn some of the properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.
6.	Mathematics-C-403	Ring Theory	Realize importance of binary operation
7.	Mathematics-C-501	Topology	Understand several standard concepts of metric spaces and their properties like Weierstrass property, compactness,–openness, closedness, completeness, Bolzano and connectedness.
8.	Mathematics-C-502	Multivariate Calculus	Understand problems, methods and techniques of calculus of variations.
9.	Mathematics-C-601	Complex Analysis	Visualize complex numbers as points of $\mathbb{R}^2$ and stereographic projection of complex plane on the Riemann sphere. Understand the significance of differentiability and analyticity of complex functions Riemann equations.–leading to the Cauchy Goursat theorem and Cauchy integral formula in evaluation– Learn the role of Cauchy of contour integrals.

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10.	Mathematics-C-602	Linear Algebra	Understand the concepts of vector spaces, subspaces, bases, dimension and their properties. Relate matrices and linear transformations, compute eigen values and eigen vectors of linear transformations.
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COURSE OUTCOMES OF MATHEMATICS, GENERAL (CBCS)

Sl.No.	Course Code	Course Name	Course Outcome
1.	Mathematics-DSC-301		: Students will demonstrate the ability to use the Basics Algebraic and Real Analysis concepts to analyze "real world" issues
2.	Mathematics-DSC-401		Students will demonstrate the ability to algebraically and graphically analyze functions. Students will demonstrate the ability to model Abstract Algebra.
3.	Mathematics-DSC-501		Outcome: Students will demonstrate the ability to algebraically and analyze Linear Problems. Students will demonstrate the ability to model Linear Algebra.
4.	Mathematics-DSC-601		Formulate a combinatorial optimization problem efficiently and Apply the simplex method for solving linear programming problems. Express the dual of a linear programming problem, interpret the results and obtain solution to the primal problem from the solution of the dual problem. Also, Apply the transportation simplex method to solve transportation problems.

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DEPARTMENT OF ZOOLOGY

PROGRAM OUTCOME (CBCS)

The Department of Zoology offers the following two programmes of study:

1. B.Sc. (General) & 2. B.Sc. (Honours). The programmes and course are executed by the department that is designed and prescribed by the Assam University, Silchar. It covers topics like genetics, molecular biology, biochemistry, developmental biology, animal behaviour, animal physiology, ecology, fish and fisheries, apiculture, sericulture, immunology, etc. that primarily aims to provide students with deep and extensive understanding of the subject. The course includes both theoretical and practical aspects of the subject.

As the student completes the course, he/she will be able to----

1. Develop a basic and strong foundation in Zoology.
2. Develop and improve the skill of applying concepts and techniques with diverse real life situations.
3. The knowledge gathered from practical, field works and study tour retains in the mind.
4. Inculcate ethical values, team work, leadership and managerial skills.
5. The programme provides platform to lucrative career opportunities from comfortable indoor settings to outdoor environment depending on their interests.

The career options may be as –

- i) Research Positions: After completion of B.Sc. and M.Sc. one can be availed at reputed research institutes like IISc, IIT, CMFRI, CIBA, CIFT, CIFA, NFDB, NBFGR, NIO, RGCA, NCBS, ATREE, etc.

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- ii) Field Positions: Researching animals in their natural habitats can lead to avail jobs as wildlife technician, Animal services, associate, veterinary assistant, animal adoption specialist, research technician, animal caregiver and zoo-keeper.
- iii) Conservation Positions: Zoologists can work in local federal or state government agencies to develop and implement conservation measures and programs to protect the dwindling wildlife.
- iv) Teaching Position: One can availed at school levels after the completion of B.Sc. After B.Sc., students can pursue higher level of education like M.Sc., M.Phil., Ph.D. to avail teaching position at College and University levels.
- v) Channels like National Geography, Animal Planet, Discovery, etc. are in constant need of Zoologists for research and documentaries.
- vi) Acquiring a degree in Zoology also enables an individual to be hired in museums as curators, as Forensic experts, Lab. Technicians and many more.
- vii) Livestock entrepreneurship is also an emerging self-employment option for graduates in Zoology.

COURSE OUTCOME (CBCS)

The program not only focuses to provide students with the theoretical knowledge, so it emphasises on field works and visits to areas of zoological importance thus enabling the students to understand the subject better. It also teaches the students the analysis of skills with which they can comprehend and participate in the real world, prepare them for further studies and to achieve success in professional careers.

Sl. No.	Name of Course	Course Outcome
1	Diversity of Chordates	It basically intends the students to study about the structure, function, biodiversity, identification and classification of invertebrate animals from Chordates to Mammals. It also includes zoogeography- realms, distribution, barriers, dispersal of animals.
2	Animal Physiology: Controlling and Coordinating Systems and Life Sustaining systems	Physiology is the principal branch of biological science. It is the science of processes taking place in living organism. Its study helps to know the function of the organism, the activities of its different organ in their interaction with environment, for eg- The work of muscles, heart, brain and spinal cord. The students get the knowledge of the structure of different organs in relation to their function, eg; testis, ovary and physiology of reproduction. They can have the idea about endocrinology which means the study of endocrine glands and the hormones secreted by them and also know about Mechanism in action, Regulation of their secretion etc.
3	Fundamentals of Biochemistry	The various life processes such as birth development, digestion, metabolism, respiration, excretion, etc. are the result of biochemical events. Hence, biochemistry is a vital branch of Biology. It encompasses the areas that require physiochemical approaches methods and techniques. The fundamentals of biochemistry helps the students to know about the Carbohydrates, Lipids, Proteins, Nucleic acids

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		such as structures of DNA and RNA, types and Enzymes and the Mechanism of enzyme action.
4	Comparative Anatomy of Vertebrates	The students can compare and study the anatomy of different groups of vertebrates.
5	Biochemistry of Metabolic Processes	The study of biochemistry of metabolic processes helps the students to know about metabolisms like Carbohydrate metabolism, Lipid metabolism, Protein metabolism and Oxidative Phosphorylation
6	Molecular Biology	Molecular biology is the study of biomolecules and their metabolism in the cell. Study of molecular biology will help the students to know about nucleic acids like DNA, RNA, DNA replication etc. As it deals with genes, they will also have knowledge about the regulation of genes and their products of expression.
7	Principles of Genetics	Genetics is the science of heredity. From this chapter the students can learn about the Principle of inheritance, Linkage of genes, Crossing over, Mutation of gene and Chromosomal aberrations. They will also have the idea about the mechanism of Sex determination and Extra chromosomal inheritance and transposons in bacteria and humans
8	Developmental Biology	Developmental Biology deals with all events of the entire developmental period of an animal. The study of developmental biology helps the students to know the development of animal that starts from gametogenesis and proceeds with fertilization, cleavage, gastrulation, regeneration etc. They can also have the knowledge about the implication of development biology like In vitro Fertilization, Stem cell and Amniocentesis etc.
9	Evolutionary Biology	Evolution means unfolding or unrolling- a gradual, orderly change from one condition to another. This topic deals with the beginning and evolution of life from a single cell bacteria to multicellular man, evidences to support evolution- fossil records, geological time scale, theories and by genetics.

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10	Immunology	Immunology is a branch of biochemical science that covers the study of all aspects of the immune system. The students can know the basic concepts in immunology, immune system, cells and organs of the immune system, the properties of antigens, antibodies. They can have an idea about the application of immunology- i) Diagnostic microbiology, like diagnosis of AIDS by ELISA test. ii) Application in medicine, in preventive medicine like vaccines iii) Treatment of diseases and many more. Learning Immunology helps to keep ones own defence in a better working condition and this helps us to lead a disease-free life.
11	Reproductive Biology	The students can learn about the reproductive system and the hormones responsible for the process of reproduction, functional anatomy of male and female reproduction, hormonal regulation and reproductive health like causes of infertility in male and female, diagnosis, reproductive technology, etc.
12	Fish and Fisheries	Fish and fisheries is related to catching of inland and marine fishes for commercial purposes .The students can learn about the general description of fish, classification based on feeding habit, habitat etc. it also involves aquaculture, gears, navigation, aquarium management, breeding, special products and by-products and fish diseases.
13	Animal Behaviour and Chronobiology	Ethology is the study of animal behaviour to find out natural responses of animals to various environmental stimuli. The student can learn about the experiments conducted by Karl von Frish and Ivan Pavlov, patterns of behaviour, social and sexual behaviour, historical developments in chronobiology, biological clocks, biological rhythms etc.
14	Apiculture	The art and technique of beekeeping is called apiculture. This chapter emphasises on the classification and biology of honey bees, rearing of bees, diseases and enemies, control and preventive measures, bee economy, entrepreneurship in apiculture.
15	Sericulture	The students can learn about the life cycle of exotic and indigeneous races of silkworm, rearing of silkworms and entrepreneurship in sericulture.
16	Aquarium Fish Keeping	This chapter emphasises on the potential scope of aquarium fish industry as a cottage industry, exotic and endemic species of aquarium fishes. It also involves

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		biology, food and feeding of aquarium fishes, fish transportation and maintenance of aquarium.
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FYUG
PROGRAM/COURSE OUTCOME

DEPARTMENT OF ECONOMICS

Program Specific Outcome:

Program in Economics has been designed with the objective to develop in-depth knowledge of students in frontier areas of economic theory and methods, so that they are able to use the knowledge to study real world economic problems. The program has a strong focus on theoretical and quantitative skills and train students in the collection and analysis of the data.

Specifically, Economics program seek to:

- PSO1. Provide and adapt curricula that prepare our graduates for employment and further study as economists.

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- PSO2. Develop a deep understanding of the basic theoretical framework underlying the field of micro and macroeconomic theories and policies.
- PSO3. Ensure a comprehensive understanding of the basic economic concepts like how the market forces work, how the different degrees of competition in a market affect pricing and output.
- PSO4. Develop the knowledge about theories of economic growth & Development and issues of related to sustainable development
- PSO5. Provide a deep knowledge on environmental Economics.
- PSO6. To develop the understanding of the efficiency and equity implications of market interference, including government policy.
- PSO7. Articulate the knowledge of public finance.
- PSO8. Developing the skill of data collection & use of sampling techniques in research.
- PSO9. Understand the theories of international trade and their interrelationship with domestic macroeconomic policies for the development of the country.
- PSO10. Apply mathematical and statistical tools as well as econometrics models to decipher the micro and macro-economic phenomena
- PSO11. Develop research knowledge in economics.

Course Outcomes:

Semester I

- (1) ECODSC- 101: Introductory Microeconomics: Total Credits: 3: Teaching Hours: 45 hours
After finishing the course students are expected to develop some basic understanding of economic principles and be able to relate the microeconomic theories with individual economic behaviour in the real-life situation.

- (2) ECODSC-102: Introductory Macroeconomics: Total Credits: 3: Teaching Hours: 45 hours

After the completion of the course, the students will be able to understand the theoretical framework and the working of the economy as a whole. The course would provide an in-depth understanding of the real economic issues like unemployment, inflation, money supply, GDP and their linkages.

- (3) ECODSM-101: Elementary Economics: Total Credits: 3: Teaching Hours: 45 hours

After finishing the course students are expected to develop some basic understanding of economic thought and be able to relate the microeconomic theories and macroeconomic theories with individual economic behaviour in the real life situation.

- (4) ECOIDC- 101: Foundation of Economics – 1: Total Credits: 3: Teaching Hours: 45 hours
After completion of the course the student will be able to explain what economics is and why it is important. The student will understand about market forces, identify the determinants of supply and demand; demonstrate the impact of shifts in both market supply and demand curves on equilibrium price and output, define equilibrium production, cost, working and nature of markets.

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- (5) ECOSEC- 101: Business Project Formulation and Entrepreneurship Development: Total Credits: 3: Teaching Hours: 45 hours

After the completion of the course, the student will be able to Use the entrepreneurial qualities and skills under real world condition. The student will be able to identify various schemes provided by Government of India to support business enterprises and develop entrepreneurial personality and prepare project report and initiate SSI.

Semester:II

- (6) ECODSC- 151: Elementary Mathematics for Economics: Total Credits: 3: Teaching Hours: 45 hours

After completion of the course students would develop sufficient quantitative and analytical skills required for the learning of economic theory and principles at the UG level.

- (7) ECODSC-152: Issues in Indian Economy: Total Credits: 3: Teaching Hours: 45 hours

On completion of the course the student will be able to understand the basic characteristics of Indian economy since independence and its potentiality on natural resources as well as human resources. The Student will be able to identify the causes of poverty, unemployment and income inequality in the economy and will develop the capacity to critically review the relevant policy measures.

- (8) ECODSM-151: Elementary Economics: Total Credits: 3: Teaching Hours: 45 hours

After finishing the course students are expected to develop some basic understanding of economic thought and be able to relate the microeconomic theories and macroeconomic theories with individual economic behaviour in the real life situation.

- (9) ECOIDC-151: Foundation of Economics – II: Total Credits: 3: Teaching Hours: 45 hours

After the completion of the course, the student will be able to understand the theoretical framework and the working of an economy as a whole. The course is intended to provide an in- depth understanding of the real economic issues like unemployment, inflation, and also have knowledge about functioning of money and banking, Classical and Keynesian approaches to income and employment, GDP and their linkages.

- (10) ECOSEC- 151: Insurance: Principles and Practices: Total Credits: 3: Teaching Hours: 45 hours

After the completion of the course the students will gather practical knowledge about the functioning framework of insurance markets.

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DEPARTMENT OF EDUCATION

Programme Specific Outcome (PSO) and Course Outcome (CO) Programme Specific Outcome (PSO) of Education:

- PSO1. The FYUG course is expected to develop in students learning of Education as a social Science discipline by providing them with a challenging educational experience.
- PSO2. The course is aiming to develop sound theoretical background in the subject and to enable the students to understand the foundation of education.
- PSO3. The course would develop capabilities of the students to critically evaluate issues and the emerging trends of education.
- PSO4. The course is expected to equip students with soft skills and inculcate values through value education for personal development.
- PSO5. The course would help students to familiarize with educational technology and train them in the use of ICT in Education.
- PSO6. The course would help to understand the use of statistics in education and evaluation.

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PSO7. The course includes learning with practical experience and preparation of dissertation on different topics of education.

Course Outcome (CO) of B.A. (Education) General Programme-

Programme Code	Course Code	Course Name	Course Outcome
FYUG B.A. (Education) General Programme	DSC– 101	Principles and Practices of Education	This course has been designed to make learners acquaint with concept, nature, principles, theories of education, curriculum, teaching etc.
	DSC– 102	Educational Psychology	This course has been prepared to make learners understand the basics of educational psychology, learning, motivation etc.
	DSM-101	Introduction to Educational Psychology	This course would provide basic knowledge on educational psychology and human growth and development at different stages of life.
	IDC–101	Introduction to Teaching Learning Process	This course has been designed to understand the meaning, aims, functions and role of teaching, and learning.
	SEC– 101	Yoga and Life Skill Education	This course has been designed to make the learners to understand the concept of holistic health, importance of yoga and art of living.
	DSC– 151	Learner and Learning	With this course the learners would be enabled to understand the concept of learner, learning and its theories.
	DSC– 152	Educational Philosophy	This course will focus on the basic concept of philosophy, its nature, methods, relation between philosophy and education etc.
	DSM– 151	Introduction to educational Philosophy	Focus of this paper would be on acquainting students with educational philosophy, its principles, its application etc.

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DEPARTMENT OF ENGLISH

Program specific outcome (PSO) and Course outcome (CO) of English FYUG Courses

Sl. No	Semester	Course Code	Title of Courses	Outcome
1	I	ENGDS C101	British poetry (Beginning to the twentieth Century)	The main objective of this course is to enhance students' comprehensive understanding of the historical development and evolution of British poetry by examining important works from the Chaucerian Period to the Twentieth Century. Students will be introduced to the major literary works in the field of British poetry during this course. Students will learn about the distinctive qualities of British poetry and its function in reflecting and influencing society through an examination of the social, political, and cultural settings that have an impact on these literary works. After completion of this course, the students will comprehend and understand the literary devices, historical background, and thematic components that characterize

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				each poem, enabling the students to comprehend poems on a deeper level. The prominent poets of this age, their influences on the greater literary landscape, and their contributions to the British literary canon will all be learnt by the students.
2	I	ENGDS C102	British Drama (Beginning to the twentieth Century)	This course aims to introduce the students to British Drama in terms of the context, the form, the stage, etc., from the Medieval Period to the Twentieth Century, through a reading of the selected representative texts. The chosen texts will also assist students in learning about the politics, society, and culture of British society during the relevant eras as well as how drama reflects current events. On completion of the course, the students are expected to be in a position to appreciate the state of affairs as has prevailed in Britain from the Medieval Period to the Twentieth Century, and as those that have been represented in the selected texts. The students, through an engagement with the selected texts, will also gain an understanding of the British life and society in their wider historical context.
3	II	ENGDS C151	British Fiction (Beginning to the twentieth Century)	The primary objective of this course is to provide students with a comprehensive understanding of the historical development and evolution of British fiction by exploring major works from different literary periods, introducing students to the major novelists, their contributions to the British literary tradition, and the broader impact of these works on global literature. Students will learn about the distinctive features of British fiction and its function in reflecting and influencing society by investigating the social, political, and cultural settings that influenced these books. After completion of this course, students are expected to develop a solid foundation in the analysis and interpretation of key British novels. They will be able to engage with the texts on a deeper level, appreciating the historical context, literary techniques, and thematic elements that define each work. Students will be able to identify the major authors and their contributions to the British literary canon, as well as the distinguishing characteristics of different literary periods. Additionally, students will hone their critical thinking skills, enabling them to engage in thoughtful discussions and form well-informed opinions about the novels and their impact on the larger literary landscape

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4	II	ENGDS C 152	Indian writing in English	The purpose of this course is to familiarize the students with the emergence and growth of Indian Writing in English. The course will highlight issues akin to representation of culture, identity, history, and gender politics. It will also open before students the rich and diverse output of Indian writing in English and enhance their interest to appreciate the aesthetics of Indian Writing in English. After completion of the course, the students will have gained insight into various aspects of Indian Writing in English through the given texts.
5	I/II	ENGDS M 101/ENG DSM 151	British Literature (The Elizabethan period to Eighteenth Century)	The primary objective of this course is to provide students with a comprehensive understanding of the evolution of British literature through the exploration of some major works from the Elizabethan Period till the Eighteenth Century. The course will introduce students to the essential literary works of the period. By examining the social, political, and cultural contexts that enlightened and shaped these literary works, students will gain insight into the unique aspects of British literature and its role in shaping society. On completion of this course, the students will be expected to engage with the texts on a deeper level, appreciating the historical context, literary techniques, and thematic elements that define each related text. Students will be expected to identify the major authors of this period and their contributions to the British literary canon and their impact on the larger literary landscape.
6	I	ENGSEC 101	English Communicati on and soft skills	The primary objective of this course is to inculcate in the students the need to build up adaptive strategies in multiple situations by developing inter-personal skills, workplace etiquette, relation building and written communication with a view to attaining hard skills subsequently. Students, on the completion of this course, will be able to acquire the necessary soft skills in English by gaining insight into the finer and subtler aspects of personal and inter-personal relationships especially in a public environment. This syllabus will also improve the capabilities of the students to work and conduct themselves appropriately in the institution and the workplace by being caring, sensitive, tolerant and reciprocal to others.

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7	II	ENGSEC 151	Creative writing in English	The primary objective of this course is to enable students to read literature with particular attention to voice, style, form, language and technique. The Craft of creative writing will help students to collaborate and communicate effectively through writing, sharing and revising creative thoughts. The Course is designed to produce skills to create awareness to comprehend creativity in literature. After completing the course the students will be expected to exhibit artistic potential in a significant way with an understanding of the creative process for critical as well as intuitive thinking and problem solving.
8	I	ENGAE C 101	Alternative English	The primary objective of this course is to enhance the ability of the students by providing them with a comprehensive understanding of the basic English Grammar as well as some English literary pieces covering English Poetry, Short Stories and Essays. After completing this course, students will be able to develop the ability to understand the basics of English grammar that may help them to erect a solid foundation in English Language, and subsequently enable them to understand and interpret an English Text. In this way, the students will develop their command over both English language and English literature, simultaneously.
9	II	ENGAE C 151	English language and Communication	The purpose of this course is to introduce students to the theory, fundamentals, and tools of communication and enable them to develop vital communication skills which should be integral to personal, social, and professional interaction. In the context of rapid globalization and increasing recognition of social and cultural pluralities, the significance of clear and effective communication has been substantially enhanced. The present course is intended to address some of these aspects through an interactive mode of teaching-learning process and by focusing on various dimensions of communication skills. After completing this course, students will be able to express values and skills gained through effective communication. They will acquire the skills of LSRW (Listening, Speaking, Reading, and Writing) and in this way, the students will improve the mediation skills

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10	I	ENGID C101	An Introduction to Literary Appreciation	The primary objective of the course is to familiarize the students with some basic terminologies used in literary appreciation. In addition, the course will focus on introducing the students to some basic literary texts and what entails their appreciation. After completing the course students will be expected to gain insight into basic literary terminologies which will be helpful to them in appreciating literary texts
11	II	ENGID C151	Literature and the Environment	The primary objective of this course is to expose students to the intricate connections between literature and the environment, by analysing works that tackle ecological themes and address pressing environmental concerns. The course will delve into a diverse range of texts, including those from British, American and Indian authors, and will incorporate critical insights from global scholars to offer a well-rounded and cross-cultural understanding of environmental literature. Through this exploration, students will learn to appreciate the power of literature in raising awareness, shaping perspectives, and driving changes related to environmental issues. On the completion of this course, the students are expected to gain the ability to critically analyse and discuss the role of literature in addressing critical environmental issues from a variety of perspectives from different cultural backgrounds. Students will develop a comprehensive understanding of eco-criticism as a critical approach to literature and will be able to apply its principles to the analysis of various texts. Through this process, students will not only become more aware of pressing environmental concerns but also recognize the ways in which literature can inspire, educate, and influence societal attitudes towards the environment.

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DEPARTMENT OF ASSAMESE

Course Outcomes (CO) of Assamese (FYUG):

Sl No	Course Code	Course Name	Outcome
1	ASMDSC-101T	History Of Assamese Literature-I	This course is intended to give an outline to the history of the Assamese literature. In this course students will know the history of Assamese literature of Ancient and Medieval period. Students will also understand the characteristics of Assamese literature in that time.
2	ASMDSC-102T	History of Assamese Language	This course is intended to give an outline to the history of Assamese language Students will also understand the development of Assamese Language.

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3	ASMDSM-101T	Introduction of Assamese Literature	The main aim of the course is to make students familiar with the Poetry, prose and Plays. They also go through various selected Assamese poetry, prose and plays.
4	ASMDSM-151T	Assamese Romantic and Modern poetry	The main aim of the course is to make students familiar with the Poetry. They also go through various selected Assamese poetry of various periods.
5	ASMSEC-101T	Acting and the Stage	The main aim of the course is to make students familiar with the Plays as a performing art and understand the importance of stage in plays. Students also gain the knowledge about the historical background of Assamese Play and stages in Assam.
6	ASMSEC-151T	Language and its use in Computer	Through this course students learn how to use a particular language in computer and understand how to use Assamese language in computer. Apart from theoretical knowledge, they also gain the practical knowledge in this course.
7	ASMIDC-101T	Environment and Assamese Literature	The main aim of the course is to make students familiar with the environment. They will study the various Assamese text in which environment was reflected.
8	ASMIDC-151T	Assamese Writing Skill	The main aim of the course is to make students familiar with the Assamese writing process. Students will also know the various aspects of Assamese writing skills.
9	ASMMIL-101T	Assamese as Communicative Language	After completion of the course students shall be able to learn regarding the various innovative ways of using Assamese language in verbal and non verbal communications. This course will enable the students to develop their speaking, reading and understanding skills. The course attempts to develop the writing skills of the students and makes them think about the relation between language and literature.

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DEPARTMENT OF HISTORY

Programmed Specific Outcome (PSO) and Course Outcomes (CO) of History (FYUG):

Sl. No.	Course Code	Course Description	Course Outcome
1	Semester-I HISDSC - 101T	History of India from earliest times up to 300 BCE	The course is designed to understand the historiographical trends, interpretation of the historical sources of ancient India, will acquire knowledge about the Vedic Period, the rise of Jainism and Buddhism and about the history of our ancestors along with the cultural transitions.

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2	HISDSC - 102T	History of India from Mauryan Ascendancy to Harsha era	The Course aims to introduce significant developments in Indian history that have shaped the complexity of human existence. To begin with, it offers a Empire building process. It details with the political achievements of the important dynasties of Ancient India and their administration on the basis of some important sources.
3	HISSEC- 101T	Archaeology & Museology	The aim of this course is to make students familiar with the structure and functioning of archaeology and museums with a view to reconstruct history and the preservation and display of its manuscripts, art objects and heritage.
4	HISIDC- 101T	History of Environment	The objective of the paper is to familiarize the students with the discipline, environmental history, to know the relation between ecology and human civilization, to understand the social movements emerged due to environmental factors in India.
5	HISDSM- 101T	History of India from Earliest times till the Mauryan period	Students will acquire Knowledge about the historiographical trends, interpretation of the historical sources of ancient Indian. They can acquire knowledge about the Vedic Period and the rise of Jainism and Buddhism. The paper will help the students in understanding the history of our ancestors along with the cultural transition that happened in due course of time.
6	Semester-II HISDSC - 151T	History of Early Medieval India	This course explores the transition from proto-historical to early medieval phase highlighting major changes that shaped the character of the Indian civilization in the Deccan. The course tries to trace the emergence of state system from tribal stage to 'early- state' stage and at the same time seeks to underline the important developments in the arena of economy, society and culture. It also

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			reflects about the invasion by the Arabs from the northwest and the resistance made by the Indian rulers.
7	HISDSC - 152T	History of India From 1206-1526	The period starts with the Delhi Sultanet Period. The Course seeks to develop a historical understanding of the major developments in some parts of the Medieval India. It will make understand about the Political changes, career and achievement of the rulers and their administration. Course also focused on Bhakti movement, Sufi movement and their impact on the society.
8	HISDSM- 151T	History of India from Shunga to Pushyabhuti Dynasty	This paper focused in understanding the Ancient Indian History. The student will be able to understand about the various sources that help to reconstruct the Ancient Indian History and about the various political achievement of the important dynasties and their Administration.
9	HISSEC- 151T	Evolution of Indian Culture	The course aims to provide an overview of the various forms of the subcontinent's popular cultural practices, expressed through oral, visual and other mediums. Exploring the interface between various forms of popular culture and their historical evolution.
10	HISIDC- 251T	Gender Studies	The course introduced the basic concept and precepts of gender studies. It encouraged the students to understand the various aspect of gender history and about various laws and organization. By this course student will engaged in feminist debates and discourse of gender study and create gender

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			sensitivity and help them to do research on interdisciplinary approach of understanding gender.
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DEPARTMENT OF PLITICAL SCIENCE

Course Outcome (CO) of Political Science (FYUG):

Sl. No	Paper Code	Name of the Course	Outcomes
FYUG—1ST SEMESTER			

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1.	DSC 101	Introduction to Political Theory	This paper begins with the understanding of the meaning and nature of Politics and its difference with Political Science and Political Theory. It also includes issues such as Democracy, liberty, equality, Justice, state and Civil Society. An attempt is made to acquire knowledge about the concepts such as citizenship, rights, Human Rights and the UNO. It also spells out debates on the compatibility of democracy with economic growth and also on Protective discrimination vs. the Principle of Fairness.
2.	DSC-102	Indian Government and Politics	This paper delves into the Indian Constitution- its making and salient features, Fundamental Rights and Duty, Directive Principles of State Policy, Federalism-Union-State Relation, Election and impeachment of the President, powers and Functions of the Prime Minister, Union Council Of Minister, Parliamentary- relation between the Lok Sabha and the Rajya Sabha, Supreme Court-Judicial Review and Judicial Activism. The issue of democratic decentralization-working of the Panchayat, Urban bodies and Sixth schedule bodies are also being addressed in this paper.
3.	DSM-101	Introduction to Political Theory	This paper spells out the meaning of Politics, Political Science and Political Theory. It also throws light on democracy, liberty, equality, justice citizenship- meaning, features, genesis acquisition and loss of Citizenship, rights- its meaning nature, kinds including human rights and the UNO. Relationship between State and Civil Society, Debates on Censorship, protective Discrimination and intervention of State and family are also the issues that are articulated in this paper.
4	IDC- 101	Political Theory- Basic Concepts	This paper incorporates the nature, scope and relevance of Political Theory, its relationship with history, economics and Sociology. In addition, the idea of State- its definition and elements, theories of the state, sovereignty-meaning, definition and kinds of sovereignty, monistic and pluralistic theories of sovereignty, democracy and dictatorship, Unitary, Federal, Parliamentary and Presidential forms of government are also extensively dealt with in this paper.
5	SEC-101	Legislative Support	This paper has dealt with issues such as Members of the Parliament and State Legislature, Role and Functions of People's Representatives in the Rural and Urban bodies, Local Self-Government, Law-Making Procedure in Indian Parliament, Amendment Procedure of the Constitution, Parliamentary Committees, Union budget Role of

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			the Parliamentary Committees.
FYUG—2ND SEMESTER			
1.	DSC 151	Theory-Concept and Debates Political	This paper has elucidated the Importance of Freedom, Negative and Positive Liberty, Significance of Equality, formal equality, Political and Egalitarianism with reference to India. It also includes topics such as idea and concept of justice, Universality of Rights—Three Generation of Rights, Major debates on Human Rights and Multi-culturalism, Human rights-Universalism Vs. Cultural Relativism. Multi-culturalism and the idea of Toleration.
2.	DSC-152	Political Process in India	This paper incorporates issues such as Party System-its trends and functions, caste, class, patriarchy and functions. Issues such as religion and Debates on Secularism and Communalism, regional aspirations, the growing trends on politics of secession and accommodation, Social Movement in India such as Women's Movement, Environmental Movement. It also incorporates issues such as the Strategy of planned development, Neo-liberalism and New Economic Reforms.
3.	DSM-151	Introduction to Political Theory	This paper spells out the meaning of Politics, Political Science and Political Theory. It also deals with issues such as Democracy-its form, characteristics, liberty- its features, forms and safeguards, equality-its nature and Kinds, Justice – its types and including Rawl's theory of Justice. Other pertinent issues such as Citizenship, Human rights, Censorship, Protective discrimination are also extensively dealt within this paper.
4.	IDC-151	Indian Political System	This paper features the Constitution of India, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy, election, powers, Functions and impeachment of the President. Appointment, powers, functions and role of the Prime Minister of India and also the Union Council of Minister, relationship between the Lok Sabha and the Rajya Sabha, Composition and jurisdiction of the Supreme Court and the power of Judicial Review.

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5.	SEC-151	Public Opinion and Survey Research	In this paper, topics such as definition, characteristics and role of public Opinion, meaning and types of Sampling, Sampling error, interviewing techniques and its pitfalls, Questionnaire, Schedule, data processing and analysis, content analysis, discourse analysis are dealt with. In addition, Understanding opinion polls-exit polls, case study of Lok Niti and its merits and demerits also find place in this paper.
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DEPARTMENT OF SOCIOLOGY

Course Outcome (CO) of FYUGP Botany (DSC)

Sl. No	Course Code	Course Description	Course Outcome
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1	SOC:DS C-101	Fundamentals of Sociology	The teaching of the course would help the students to understand subject matter and scope of sociology as an academic discipline. The student would be able to appreciate the emergence of sociology and its intellectual and social background. The students would gain understanding of relationship between Sociology and other Social Sciences and understand the theoretical background and application of Sociology.
2	SOC:DS C-102	Basic Concepts in Sociology	The course would help the students to understand basic concepts of sociology. Through the process of conceptualisation and contextualisation of the fundamentals of sociology the students would be able to develop a holistic or comprehensive understanding and knowledge about use and misuse of concepts at different levels of the human exercises and society. Adequate and in-depth understanding about the different concepts may usher in new vista of change in the context of the society and in the perception among the people.
3	SOC:DS M-101	Introduction to Sociology	The course in its entirety is meant to help the students to understand the basic path and process of development of sociology. The students searching and learning covering wide range of socio-historical milieu will enrich their ideas and knowledge about growth, development and progress of the discipline.
4	SOC:IDC -101	Basic Sociology	The course objective is to help students to understand and realise the students to live in a peaceful manner without indulging in unnecessary chaosness and disturbance.

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			Outcome of the course learning is definitely positive to build up a healthy society.
5	SOC:SEC-101	Techniques of Data Collection	The course primarily intends to encourage the students to enhance their skills through the process of learning these elementary and yet the vital aspects of data collection.
6	SOC:DS C-151	Sociological Thinkers	The preaching and teachings of the social thinkers are far reaching and wide range. Their seminal contributions may help arousing consciousness among people to systematically rebuild the society. The students must use and utilise the right approach, method and theory propounded by the scholars to develop a better society.
7	SOC:DS C-152	Society in India	A proper and profound understanding of the course contents is very much essential to envision a better society in India. The past, present and future prospects and growth of India will be more brighten if the above enlisted aspects are taken and used in a positive vibe with open mind and humanistic perspective.
8	SOC:DS M-151	Indian Society	A proper and profound understanding of the course is very much necessary to build up a better and prosperous India. The course helps a student to develop a comparative study of the past, present and future prospects of India.
9	SOC:IDC-151	Social Problems in India	The course content would lead to a better sociological understanding of social problems in India in terms of conceptual clarity and theoretical perspectives. The students will have a detail understanding of major social problems in India and the remedial measures to overcome Such social problems.

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10	SOC:SEC -151	ICT and Computer Application in Social Science	The course content is very much useful and stands high relevance for all students who will excel by doing their respective works through use of ICT or appropriate application of computer technology. The students will further undertake both qualitative and quantitative studies by using the technology and fit that strongly at par with global standards and competition by getting good employment opportunities vis-a-vis developing their own industry of employability.
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DEPARTMENT OF BOTANY

Programme Specific Outcome (PSO) and Course Outcome (CO) Programme Outcome (PO) of Botany (FYUG):

On completion of programme students will be specifically able to

- PSO1. Scientific Knowledge: Identify and classify the plants by using the key characters and the fundamental process of plants.

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- PSO2. Practical skills: Students learn to carry out practical work, in the field and in the laboratory, with minimal risk. They become competent enough in various analytical and technical skills related to plant sciences.
- PSO3. Modern tool usage: Apply appropriate techniques, resources, and instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.
- PSO4. Intellectual skills: The student completing the course is able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes, morphology, anatomy, reproduction, genetics, microbiology and molecular biology.
- PSO5. Problem analysis: Students will be familiarized with the use of bioinformatics tools and databases and in the application of statistics to biological data.
- PSO6. Conduct investigations of complex problems: The student completing the course is capable to perform short research projects using various tools and techniques in plant sciences and develop scientific temperament and research attitude.

Course Outcome (CO) of FYUGP Botany (DSC)

Sl. No	Course Code	Course Description	Course Outcome
1	BOT:DSC-101	MICROBIOLOGY	The course will provide comprehensive overview on microbial world and its application in diverse fields.
2	BOT:DSC-102	PHYCOLOGY AND MYCOLOGY	The course will provide detailed understanding of Algae and Fungi.
3	BOT:DSM-101	Biodiversity (Microbes, cryptogams & Gymnosperm)	The course will highlight the diversity of microbial world along with cryptogams and gymnosperms.
4	BOT:IDC-101	Gardening And Nursery Management	The course will help to empower students to take up gardening and nursery management as career option.

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5	BOT:SEC-101	Medicinal Plants And Herbal Technology	The course will provide a comprehensive understanding on the importance of medicinal plants and herbal technology in healthcare.
6	BOT:DSC-151	Cell biology	The course will provide a detailed understanding of cellular organisation of prokaryotic and eukaryotic organism.
7	BOT:DSC-152	Practical-1	The course will provide a detailed picture of cellular organization of lower cryptogams and eukaryotes.
8	BOT:DSM-151	Angiosperm Morphology And Taxonomy	The course will give a comprehensive understanding of morphological features of angiosperms and direct the taxonomic data sets of angiosperms.
9	BOT:IDC-151	Biodiversity Conservation	The course will provide a comprehensive overview on the conservation and management aspects of biodiversity and the importance of biodiversity conservation in the era of climate change.
10	BOT:SEC-151	Mushroom Cultivation	The course will provide the basis to understand the diverse aspects of mushroom cultivation and its importance.

DEPARTMENT OF CHEMISTRY

Course outcome of FYUGP in Chemistry

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Year	Semester	Sl. No.	Course	Name of the Paper	Type of the course Theoretical (Th)/ Experiential (Exp)	Crdit/Full Marks	Course Outcome
1	I	1.	DSC-101T	Inorganic Chemistry-I (Atomic Structure, Chemical Bonding and Metallurgy)	Th	3/100	To emphasize on Atomic structure, bonding and periodicity, general principles of metallurgy
		2.	DSC-102 T	Physical Chemistry-I (State of Matter and Solution)	Th	3/100	To emphasize on different states of matter and solutions and their respective mathematical treatment
		3.	DSM-101T	Fundamentals in Chemistry-I	Th	3/100	To emphasize on Atomic structure, bonding and fundamentals of organic chemistry, different states of matter and their respective mathematical treatment.
		4.	SEC-101T	Separation Techniques	Th	2/70	To emphasize on principles of different types of Separation Techniques and their applications and case studies
		5.	SEC-101P	Separation Techniques (Project)	Exp	1/30	To emphasize on practical applications related to Separation Techniques
		6.	IDC-101T	Application of Chemistry in Everyday life	Th	2/50	To emphasize on importance of chemistry in our day to day life
	II	7.	DSC-151T	Organic Chemistry -I	Th	3/100	To emphasize on fundamentals of

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				<i>(Introductory Organic Chemistry)</i>			Organic chemistry, details of aliphatic and aromatic hydrocarbons, stereochemistry of organic molecules, and elementary details about carbohydrates.
		8.	DSC-152 P	Inorganic, Organic and Physical chemistry	Exp	3/100	To emphasize on preparation of double salts, coordinate complex compounds, calibration of apparatus, preparation of molarity solutions, preparation of derivatives of organic compounds, determination of surface tension, viscosity, solubility, transition temperature, refractive index of a given substance.
		9.	DSM-151T	Fundamentals in Chemistry	Th	3/100	To emphasize on Atomic structure, bonding and fundamentals of Organic Chemistry, different states of matter and their respective mathematical treatment.
		10.	SEC-151T	Basic Analytical Chemistry (Project)	Th	2/70	To emphasize on basics of analytical chemistry, water and soil analysis,

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							cosmetic analysis, food analysis, and related case studies.
		11.	SEC-151P	Basic Analytical Chemistry	Exp	1/30	To emphasize on practical applications related to water and soil analysis
		12.	IDC-151T	Indian Chemistry Through the Ages	Th	2/50	To emphasize on basics of Chemistry, chemistry of ancient India, chemistry of arts and crafts in historic period, Modern Indian Chemistry and Some Chemists from Modern India and Their Contributions in Chemistry

DEPARTMENT OF MATHEMATICS

Name of the Programme: Bachelor in MATHEMATICS with Honours/Honours and Research

Table 1: Semester-wise list of Mathematics DSC (Discipline Specific Core) Courses

Sl. No	Semester	Course Code	Title of Courses	Outcome
1	I	MATDS C101	Higher Algebra and Trigonometry	After completion of the course, learners will be able to • Demonstrate understanding of complex numbers in polar form and apply De Moivre's theorem effectively • Analyse and solve problems involving exponential and logarithmic functions with complex arguments and series expansions. • Apply formal logic principles to construct logical statements and understand the relationship between roots and coefficients of polynomial equations. • Solve polynomial equations and inequalities involving means using appropriate techniques. • Solve systems of linear equations using Gaussian elimination and understand concepts related to matrices, rank, and linear dependence/independence.
2	I	MATDS C102	Differential Calculus	After completion of this course, the learners should be able to understand limits, continuity and differentiability and apply these to solve real life problems. The learners should also be able to grasp the concepts of tangents, normals, subtangents, subnormals and solve related problems. This course will also provide an overview of partial derivatives which will be helpful in further courses of study
3	II	MATDS C151	Analytical Geometry	After completion of the course, learners will be able to • Know about transformation of co- ordinate axes, pair of straight lines, angle between pair of straight lines, orthogonal circles, radical axis, parabola, hyperbola and ellipse. • Know about how to determinate the pole and polar w.r.t. circle, parabola, hyperbola, ellipse and polar form of conics.

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				• Know about spheres, formula to find shortest distance and great circles, etc. • Know about definition of cone, right circular cone, cylinder, right circular cylinder and its related problems
4	II	MATDS C152	Integral Calculus and Vectors	After completion of the course, learners will be able to • Solve problems of definite and indefinite Integrations and learn properties of definite integrals. • Prove reduction formulae and solved some problems by using these formulae. • Explain the importance of integrations and its techniques to solve real life problems. • Understand vector calculus and related problems

Table2: Semester-wise list of Mathematics DSM (Discipline Specific Minor) Courses

Sl. No	Semester	Course Code	Title of Courses	Outcome
1	I	MATDSM101	Calculus	After completion of this course, the learners will be able to • Solve the problems of limits, continuity, derivative and integration. • Apply Calculus in real life problems.
2	II	MATDSM151	Calculus	After completion of this course, the learners will be able to • Solve the problems of limits, continuity, derivative and integration. • Apply Calculus in real life problems.

Table 3: Semester-wise list of Mathematics SEC (Skill Enhancement Course) Courses

Sl. No	Semester	Course Code	Title of Courses	Outcome
1	I	MATSEC101	Mathematical Skill Development with Software (Theory with Practical)	After completing the course, learners will • Build a solid understanding of the core principles that underpin various branches of mathematics, laying the groundwork for their application in science and technology fields. • Gain proficiency in utilising mathematical software to solve a wide range of mathematical problems.

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2	II	MATSEC151	Mathematical Programming in C (Theory with Practical)	On successful completion of the course, learners will be able to • demonstrate a comprehensive understanding of the syntax, variables, and data types used in the C programming language, • apply C programming concepts effectively to solve mathematical problems, including calculating areas, determining leap years, and checking for prime numbers, • develop efficient C programs to compute factorials, sum of series, and manipulate arrays for mathematical computation, • utilise decision control structures (if-else, switch) and loops (for, while, do-while) proficiently in mathematical programming scenarios, • design and implement modular programs by defining functions, passing arguments, and using return statements to solve mathematical problems.
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Table4:Semester-wiselist of IDC Courses

Sl.No	Semester	Course Code	Title of Courses	Outcome
1	I	MATIDC101	Foundation Course in Mathematics	After completion of the course, learners will be able to • Understand and apply concepts of numbers, fractions, ratios, percentages, and basic financial calculations. • Solve problems related to time, work, speed, distance, exponents, surds, sets, and equations. • Apply principles of permutation, combination, binomial theorem, and introductory probability. • Demonstrate proficiency in working with matrices, including operations, determinants, and solving linear equations. • Apply mathematical concepts to real-life scenarios, develop critical thinking and problem solving skills, and communicate mathematical ideas effectively.
2	II	MATIDC151	Geometry	After completion of the course, learners will be able to

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				• Apply coordinate geometry to solve real-world problems, such as distance calculations and area determinations. • Solve geometric problems involving straight lines, including determining angles, intersections, and perpendiculars. • Demonstrate understanding of conic sections and their equations, and solve problems involving parabolas, hyperbolas, and ellipses
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DEPARTMENT OF PHYSICS

Program Outcome (PO) of FYUG program in Physics

- PSO1. The program outcome of FYUG program in Physics is that the students will be acquainted with the fundamental concepts on the different branches in Physics.
- PSO2. The students will develop an understanding on Classical Mechanics, Electromagnetism, Thermodynamics, Optics, Statistical Mechanics, and Modern Physics.
- PSO3. Theoretical knowledge gained by the students through their process of learning during their UG course will help them to solve problems in diverse areas in Physics.
- PSO4. Students will also acquire basic skills in Experimental Physics through measurement techniques, data analysis and interpretation.
- PSO5. Students will also develop computational skills through applications of computer programming languages in solving different types of problems in Physics during their period of involvement in computer laboratory.
- PSO6. Students after completion of the program will be able to develop critical thinking skills to analyse and evaluate scientific information and theories.
- PSO7. Communication skills of students will improve through their viva in practicals, written assignments, presentation of dissertation and discussions on Physics topics.
- PSO8. Students will gain insights towards application of Physics principles in everyday life and in various fields of Science and Technology.
- PSO9. Students will understand the importance of ethical professional conduct in scientific research and practice.
- PSO10. The foundation built in them through the completion of the program will boost their desire for higher studies and research in Physics.
- PSO11. Different skills developed during their study of FYUG course in Physics, i.e. workshop skills, laboratory skills, creative thinking skills, problems solving skills, etc., will be an added advantage for their employments.

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Course Outcome (CO) of FYUG program of Physics

Paper Code	Paper Name	Course Outcome
PHYDSC101T	Mathematical Physics-I	After completing this course, the students will be able to understand the concepts of vector algebras, vector calculus in addition to performing line, surface and volume integration and apply various theorems to compute these integrals. The students will also be able to understand concepts of curvilinear coordinates along with ideas of special functions and some numerical techniques.
PHYDSC102T	Mechanics and Relativity	Upon completion of this course, the students will be able to learn the concepts of collisions, rotational dynamics, gravitation, oscillations, central forces and the Special Theory of Relativity including Lorentz Transformations and its consequences
PHYDSC151T	Electricity and Magnetism	After completing this course, the students will be able to apply Gauss's law of electrostatics to distribution of charges, understand the effects of electric polarization and concepts of bound charges in dielectric materials, understand the applications of Biot-Savart's law to calculate magnetic field, understand concepts of thermoelectricity along with their applications and also understand various network theorems for analysing various dc circuits.
HYDSC152P	Lab.: (Part A: Mechanics + Part B: Electricity)	At the end of the above course the students will have hands-on knowledge and overview of various experiments related to various key aspects of Mechanics and electricity.
PHYDSM101T	Mechanics, Relativity and Math Physics	After completing this course, the students will be able to understand the concepts of vector algebras and differential equations. Moreover, upon completion of this course, the students will be able to learn the concepts rotational dynamics, gravitation, elasticity, fluids and the Special Theory of Relativity including Lorentz transformations and its consequences.

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PHYDSM151T	Mechanics, Relativity and Math Physics	After completing this course, the students will be able to understand the concepts of vector algebras and differential equations. Moreover, upon completion of this course, the students will be able to learn the concepts rotational dynamics, gravitation, elasticity, fluids and the Special Theory of Relativity including Lorentz Transformations and its consequences.
PHYSEC101	Workshop Skill	At the end of this course the students are expected to develop theoretical knowledge on various workshop skills such as mechanical skills, machining process, electrical skills and electronic skills along with the hands on experience.
PHYSEC151	Electrical Circuits And Safety	At the end of this course the students are expected to get acquainted with the theoretical knowledge on various electrical circuits and the ir safety measures along hands-on learning.
PHYIDC101T	Physics In Daily Life	At the end of this course the students are expected to connect their surroundings by understanding the basic rules of Nature and able to connect some daily life observations to Physics principles. Moreover, this course expects students to have some ideas on various commonly used appliances and various Bio- imaging techniques which in inevitable for present day therapeutics.
PHYIDC151T	UNDERSTANDING THE CLIMATE	At the end of this course the students are expected to learn basic concepts of earth atmospheric composition, meteorological processes, weather and climate, climate change and ways of mitigating the issues of climate change along with various types of environmental pollutions.

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DEPARTMENT OF ZOOLOGY

Course outcome & Programme outcome

Sl. No.	Semesters	Course title & code	Course outcome	Program outcome
1.	1 st sem	Diversity of Non Chordates- ZOODSC- 101	Students will be able to classify and describe the diverse group of non chordate animals.	Students will be able to know the general characters and classification of non chordates and understanding the increasing complexity of the body.
2.		Diversity of chordates - ZOODSC- 102	Students will be able to classify and describe the diverse group of chordate animals.	Knowing the general characters and classification of chordate and their diversity.
3.		Animal Diversity ZOODSM - 101	Students will be able to classify and describe the diverse group of non chordate and chordate animals.	Knowing the general characters and classification of non chordate and chordate animals as well as their diversity.
4.		Understanding life processes – ZOOIDC - 101	Students will be able to demonstrate a comprehensive understanding of the diverse life processes and their interconnections to sustain life.	Knowing the fundamental biological processes that occur in living organisms.
5.		Apiculture – ZOOSEC - 101	Students will be able to apply their knowledge and skills in apiculture to establish and manage their own beekeeping	Expected to inculcate skills in apiary management.

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			operations successfully.	
6.		Cell biology – ZOODSC - 151	Students will be able to apply their knowledge of cell biology to explain cellular processes and their implications in the broader context of biological systems.	Enable to understand structure and functions of cell and cell organelles.
7.	2 nd sem	Practical–I(non chordates, chordates and cell biology) ZOODSC – 152	Students will have a comprehensive understanding of non chordates, chordates and cell biology enabling them to analyze and interpret the biological aspects of animals at the cellular and organizational levels.	Enable to understand the classification, diversity and characteristics of non chordates and chordates and to develop knowledge of cell biology.
8.	2 nd sem	Cell biology and histology ZOODSM - 151	Students will be able to apply their knowledge of cell biology and histology to explain cellular processes and their implications in the broader context of biological systems.	Knowing the structure, functions and organizations of cells and tissues.
9.		Economic zoology ZOOIDC - 151	Students will be able to apply economic zoology concepts and techniques to address practical challenges in areas such as animal husbandry.	Knowing the economic importance of animals and their applications in various human activities.

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10.	Medical diagnostics ZOOSEC-151	Students will be able to apply knowledge of medical diagnostic techniques for disease identification and management.	Understanding the principles and techniques used in medical diagnostics.
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