

Programme outcomes, programme specific outcomes and course outcomes for all programmes

Raha College is permanently affiliated to Gauhati University and it follows the programme wise curriculum designed by the university. The learning outcomes of the programmes and courses are stated clearly by the university. The same is published in the official website of the university which can be downloaded by the affiliated colleges.

The College has its own mechanism to communicate the learning outcomes of the curriculum to the teachers and the students.

- Hard copy of syllabi and learning outcomes are available in all the departments for ready reference to the teachers and students.
- The departments also arrange Orientation Programmes/Tutorial Meetings to make the students aware of the curriculum and the learning outcomes.

Course Outcomes:

Department of Anthropology

THEORY:

Semester I ANT-HC-1016:Introduction to Biological Anthropology	Biological anthropology is all about studying human beings from the biological perspective throwing light on the origin, evolution and diversity of our own human species as well as its relationship to other primates.It also let us know about human genetics,disease epidemiology,human health ,growth and nutrition.
ANT-HC-1026.Introduction to Socio-cultural Anthropology	Socio-cultural anthropology is the study of human culture, civilization both in their traditional and contemporary forms.
Semester II ANT-HC-2016.Archeological Anthropology	Archeological anthropology deals with the origin, growth and development of the culture in the past. It helps to reconstruct history from the evidences from the civilizations of the past which have no written records. It let us know about the consequences of the cultures of the past on the present day cultures.
ANT-HC-2026.Fundamentals of Human Origin and Evolution	Human origin and evolution let us know how the present day human being evolved from the ape like creatures. It gives us the evidences of the various physiological, genetic and behavioural changes appeared in the body of the ape like our ancestors which helped them to evolve into the

	present day human species.
Semester III ANT-HC-3016:Tribes and Peasants in India	It helps us in letting us know about the tribes, problems of nomenclature ,definition and classification including features of tribes in India,history of tribal administration,constitutional safeguards,national tribal policy,issues of acculturation,assimilation and integration,impact of development schemes on tribal life,concept of peasantry,economic,political and cultural approaches to the study of peasants in India,social organization,economy and changes in Indian villages,caste system and changes.
ANT-HC-3026:Human Ecology: Biological and Cultural Dimensions	It provides opportunity for study of interactions between people and their environment.
ANT-3036:Biological Diversity in Human Population	Students will develop understanding about biological diversity of human population, racial classification including classification of Indian populations.
Semester IV ANT-HC-4016:Theories of Culture and Society	It will help in imparting knowledge about culture and society in human populations.
ANT-HC-4026:Human Growth and Development	Students will learn concepts related to growth and stages of growth, biocultural factors influencing growth and development including human body composition.
ANT-HC-4036:Research Methods	Sudents will be able to learn research design,application of methods ,techniques in data collection as well as ethics of research.
Semester V ANT-HC-5016:Human Population Genetics	Genetic factors creating variation in human populations.
ANT-HC-5026:Anthropology in Practice	Will help learn about the applied aspects of Anthropology.

<p>Semester VI</p> <p>ANT-HC-6016:Forensic Anthropology</p>	<p>It will help the students to learn about how to distinguish human skeletal remains from non-human skeletal remains and also teaches techniques involving making personal identification.</p>
<p>ANT-HC-6026:Anthropology of India</p>	<p>Students will learn about the racial ,linguistic and ethnic dimension of Indian society.</p>

<p>Semester I</p> <p>ANT-HC-1016:Introduction to Biological Anthropology</p> <p>Practical: 1-Somatometric measurements</p> <ol style="list-style-type: none"> 1. Maximum head length 9. Physiognomic facial height 2. Maximum head breadth 10. Morphological facial height 3. Minimum frontal breadth 11. Physiognomic upper facial height 4. Maximum bizygomatic breadth 12. Morphological upper facial height 5. Bigonial breadth 13. Head circumference 6. Nasal height 14. Stature 7. Nasal length 15. Sitting height 8. Nasal breadth 16. Body weight 17. Total Upper Extremity length 18. Total Lower Extremity length <p style="text-align: center;">2-Somatoscopic Observation</p> <ol style="list-style-type: none"> 1. Head form 2. Hair form 3. Facial form 4. Eye form 5. Nose form 6. Hair colour 7. Eye colour 8. Skin colour 	<p>Biological anthropology is all about studying human beings from the biological perspective throwing light on the origin, evolution and diversity of our own human species as well as its relationship to other primates.It also let us know about human genetics,disease epidemiology,human health ,growth and nutrition.</p> <ol style="list-style-type: none"> 1. Systematized technique to measure living body parts including head and face. The measurement are of different kinds, like linear measurement, girth measurement, skinfold measurement, weight measurement. 2. Somatoscopic observations helps in identifying racial or ethnic type
<p>ANT-HC-1026.Introduction to Socio-cultural Anthropology</p> <p>Practical:1.</p> <p>Methods and Techniques of Social Anthropology: The practical will include the following techniques and methods in collection of data in Social Anthropology. 1. Observation 2.Interview 3.Questionnaire and Schedule 4.Case study</p>	<p>Socio-cultural anthropology is the study of human culture, civilization both in their traditional and contemporary forms.</p> <ol style="list-style-type: none"> 1. This will help the students to learn about the various methods of data collection in Social cultural anthropology.

<p>5.Lifehistory.</p>	
<p>Semester II</p> <p>ANT-HC-2016.Archeological Anthropology</p> <p>Practical</p> <p>1. Typo-technological Analysis of Prehistoric Tools: Identification, Interpretation and Drawings of the tool Types a. Core Tool Types b. Flake Tool Types c. Blade Tool Types d. Microlithic Tool Type e. Neolithic Tool Type</p> <p>2. Ceramic Technology: Basic concept (Students have to draw one wheel made, one hand made and one partly wheel made and partly handmade pottery.</p>	<p>Archeological anthropology deals with the origin, growth and development of the culture in the past. It helps to reconstruct history from the evidences from the civilizations of the past which have no written records. It let us know about the consequences of the cultures of the past on the present day cultures.</p> <p>1-Identification, Interpretation and Drawings of the tool types of pre-historic times.</p> <p>2-Knowing about the ceramic technology of pre-historic times.</p>
<p>ANT-HC-2026.Fundamentals of Human Origin and Evolution</p> <p>Practical</p> <p>1: Drawing, description and identification of skulls of any two from each: a) Living Anthropoid Skull: Gorilla, Chimpanzee, Orangutan and Gibbon. b) Fossil Anthropoid Skull: Parapithecus and Dryopithecus (Cast models and appropriate photographs should be utilized). c) Fossil Hominid Skull: Pithecanthropus, Heidelberg jaw, Neandarthal and Cromagnon man (Cast models and appropriate photographs should be utilized).</p> <p>2: Osteology Drawing, Description and Identification of the following Bones: Frontal bone, Parietal, Occipital, Maxilla, Zygomatic, Mandible, Sphenoid, Humerus, Radius, Ulna, Femur, Tibia, Fibula, Scapula, Clavicle Pelvis, Sternum, Vertebral Column. Sides to be identified for paired bones. 3: Osteometry: Measurement of long bones: lengths, minimum/least Circumference, Caliber index of Humerus, Radius, Ulna, Femur, Tibia, Fibula</p>	<p>Human origin and evolution let us know how the present day human being evolved from the ape like creatures. It gives us the evidences of the various physiological, genetic and behavioural changes appeared in the body of the ape like our ancestors which helped them to evolve into the present day human species.</p> <p>1-This will help the students to know about the differences in skulls of living anthropoid skull, fossil anthropoid skull and fossil hominid skull.</p> <p>2-The students will draw, describe and identify human bones.</p>

<p>Semester III</p> <p>ANT-HC-3016:Tribes and Peasants in India</p> <p>Practical A. Reading of Ethnography: Students are required to read and analyze any two of the Ethnographies (as listed below) and prepare a report based upon it. The report should clearly link up the study with the concept of tribe and peasantry and delineate clearly the concept used in the text. 1. Research questions/objectives of the study and their relevance. 2. Theoretical schema. 3. Methods and techniques used in the study. 4. Key findings and their significance in the context of the objectives of the study. 5. Critical analysis of the finding on the basis of contemporary available resources. B. Museum visit and preparation of a report: the report should include relevance of museum in anthropology, arrangement of specimens in ethnographic museum; Cleaning, treatment and preservation methods.</p>	<p>It helps us in letting us know about the tribes, problems of nomenclature, definition and classification including features of tribes in India, history of tribal administration, constitutional safeguards, national tribal policy, issues of acculturation, assimilation and integration, impact of development schemes on tribal life, concept of peasantry, economic, political and cultural approaches to the study of peasants in India, social organization, economy and changes in Indian villages, caste system and changes.</p>
<p>ANT-HC-3026:Human Ecology: Biological and Cultural Dimensions</p> <p>Practical 1. A. Biological Dimensions: Indices 1. Body Mass Index 4. Relative Upper Extremity Length Index 2. Ponderal Index 5. Relative Total Lower Extremity Length Index 3. Relative Sitting Height Index 6. Nasal Index B. Cardiovascular function: Blood pressure, heart rate, pulse rate 2. Cultural Dimensions 1. Make a research design pertaining to any environmental problem and do a project based on it.</p>	<p>It provides opportunity for study of interactions between people and their environment.</p>
<p>ANT-3036:Biological Diversity in Human Population</p> <p>Practical 1. Craniometric Measurements (Skull and Mandible) Students should be trained for identifying landmarks on the skull, taking accurate measurements on at least 3 skulls by following standards techniques. I. Linear measurements: Maximum cranial length Maximum cranial breadth Maximum bizygomatic breadth Maximum frontal breadth Minimum frontal breadth Nasal height Nasal breadth Bi-mastoid breadth II. Angular measurements Greatest occipital breadth Upper facial height Bi-maxillary breadth Outer bi-orbital breadth Inner bi-orbital breadth Greatest Occipital breadth Glabella-inion length Nasion-inion length Nasion-basion length Nasion-prosthion length Frontal chord Parietal chord Occipital chord III.</p>	<p>Students will develop understanding about biological diversity of human population, racial classification including classification of Indian populations.</p>

<p>Curvilinear or arc measurements Frontal arc Parietal arc Occipital arc sagittal cranial arc Horizontal circumference of head Metopic angle Facial profile angle Nasal profile angle Alveolar profile angle 2. Collection of demographic data from primary or secondary sources</p>	
<p>Semester IV</p> <p>ANT-HC-4016:Theories of Culture and Society</p> <p>Practical As a part of the practical following exercises will be undertaken by the students so as to enable them to connect the theories they learn with things of everyday living. 1. To identify a topic relating to contemporary issue and formulate research questions and clearly identify the theoretical perspectives from which they are derived. 2. Identification of variables of a study. 3. Various types of hypotheses. 4. Formulation of hypothesis. 5. Identification of universe and unit of study with justifications. 6. Choice of appropriate research technique and method in the context of theoretical framework. 7. Data collection and analysis</p>	<p>It will help in imparting knowledge about culture and society in human populations.</p>
<p>ANT-HC-4026:Human Growth and Development</p> <p>Practical 1. Growth status: Somatometry (stature, body weight, mid upper arm circumference, chest girth, abdominal girth, hip circumference, calf circumference), assessment of chronological age. 2. Obesity assessment: General (BMI, body fat %, Conicity index, body adiposity indices) and regional adiposity indices (WC, WHR, WHtR). 3. Nutritional assessment through dietary pattern and anthropometric indices.</p>	<p>Students will learn concepts related to growth and stages of growth, biocultural factors influencing growth and development including human body composition.</p>
<p>ANT-HC-4036:Research Methods</p> <p>1. Construction of Genealogy. 2. Observation: Direct, Indirect, Participant, Non-participant, Controlled 3. Questionnaire and Schedule, Interview- Unstructured, Structured, Key informant interview, Focused Group Discussion, and Free listing, pile sorting 4. Case study and life history 5. Project report writing- preparation of research problem, study design, data collection techniques, analysis and report writing based on somatometric, dermatoglyphic and serological data or social problem.</p>	<p>Students will be able to learn research design, application of methods, techniques in data collection as well as ethics of research.</p>

<p>Semester V</p> <p>ANT-HC-5016:Human Population Genetics</p> <p>Practical 1. ABO and Rh (D) Blood groupings: Student should be trained in determining ABO and Rh blood groups of at least 5 individuals by following standard procedure. 2. Testing of Colour Vision (Color Blindness): Ishihara's Chart should be used to determine the colour blindness. Inferences should be recorded on at least 5 subjects. 3. PTC test: Student should be trained to test PTC testing ability in at least 5 individuals following standard procedure</p>	<p>Genetic factors creating variation in human populations.</p>
<p>ANT-HC-5026:Anthropology in Practice</p> <p>Practical 1. The students will visit a NGO, corporate office, panchayat office or census office and write principal observations on the same. 2. Write a project on constitutional provisions or evaluation of any development project / report. 3. Write a project on Religious Tourism / Tribal Tourism / Health Tourism / Fashion / Human Rights / Ecotourism. 4. Collection of demographic data from secondary sources and write a project on demographic profile</p>	<p>Will help learn about the applied aspects of Anthropology.</p>
<p>Semester VI</p> <p>ANT-HC-6016:Forensic Anthropology</p> <p>Practical 1. Study of Human Long Bones. Estimation of age, sex and stature from bones. 2. Somatometric and somatoscopic observation for identifying individuals. 3. Examination of finger prints and hand writing Analysis and interpretation of finger ball pattern types, palmar main lines and pattern index; Finger print classification and development of chance prints and statistical treatment of the data collected (Ten Subjects).</p>	<p>It will help the students to learn how to distinguish human skeletal remains from non-human skeletal remains and also teaches techniques involving making personal identification.</p>

<p>ANT-HC-6026:Anthropology of India</p> <p>Practical 1. Identify various traits/variables which can be used in racial classification and comment on its relevance. 2. Review a book/edited volume on Indian social structure such as caste, religion, tribe or rural population and give its salient features. 3. Explore the biological diversity of any population group considering a minimum of five genetic traits. 4. Highlight the contributions of any two contemporary Indian anthropologists.</p>	<p>Students will learn about the racial, linguistic and ethnic dimension of Indian society.</p>
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DEPARTMENT OF ASSAMESE

Course	Outcome
ASM-HC-1016: ASOMIYE SAHITYAS BURANJI (CHARJYAPAD SANKARIJUZ)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া সাহিত্যৰ যুগবিভাজন সম্পৰ্ক জনাৰ লগতে উমৈহতীয়া সাহিত্য আৰু প্ৰাকশংকৰীযুগৰ সাহিত্যিকসকলৰ ৰচনাৰ বৈশিষ্ট্য সম্পৰ্কে জানিব পাৰিব □
ASM-HC-1026: ASOMIYE SAHITYAS BURANJI (Uttar Sankari jug,Areenodai jug)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে উত্তৰ শংকৰী যুগ,প্ৰাক অৰুণোদই, অৰুণোদইযুগৰ পটভূমি আৰু এইখিনি সময়ৰ সাহিত্যিকসকলৰ ৰচনাৰ সৈতে পৰিচিত হব পাৰিব □
ASM-AE-1014: Sakshamata Vikash pathya	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া ভাষা যোগাযোগৰ মাধ্যম হিচাপে ব্যৱহাৰ কৰিবলৈ প্ৰয়োজনীয় কথন আৰু দক্ষতা অৰ্জনৰ তাত্ত্বিক আৰু প্ৰয়োগিক জ্ঞান লাভ কৰিব পাৰিব।
ASM-RC-1016: Asomiya Bheshar Itihas:	এই অধ্যয়নত ছাত্ৰছাত্ৰীসকলে বিভিন্ন পাঠৰ সহায়ত অসমীয়া ভাষাৰ ক্ৰমবিকাশ সম্পৰ্কে জানিব পাৰিব □
ASM-HC-2026: Bhasha Biggan Parichay	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে ভাষা-বিজ্ঞানৰ আধাৰত ভাষা বিশ্লেষণৰ বিভিন্ন শাখা,স্তৰ আৰু ধৰণৰ লগতে ভাষা অধ্যয়নৰ ইতিহাস সম্পৰ্কে জানিব পাৰিব।
ASM-HC-2026: Sahitya Samalochna	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে প্ৰাচ্য আৰু পাশ্চাত্য সাহিত্যতত্ত্বৰ কিছুমান চৰ্চিত দিশ নতুনকৈ চাব পাৰিব।
ASM-HC-2026: Asomiya Sahitya Itihas	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে প্ৰাকশংকৰীযুগ,শংকৰীযুগ আৰু উত্তৰ শংকৰীযুগৰ সাহিত্যৰ পটভূমি আৰু বিশিষ্ট সাহিত্য কৃতিৰ ধাৰণা লাভ কৰিব পাৰিব।
ASM-HC-3016: Asomiya sahitya prabesh	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে সৃজনীমূলক আৰু সমালোচনামূলক সাহিত্যৰ সম্পৰ্কে বিশেষ

	ধাৰণা লাভ কৰিব পাৰিব।
ASM-HC-3026: Asomiya Kobitar Saneki	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে প্ৰাচীন কবিতা, ৰমন্যাসিক কবিতা আৰু আধুনিক কবিতাৰ সৈতে পৰিচিত হ'ব পাৰিব।
ASM-HC-3036: Asomor Sanskriti	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমৰ সংস্কৃতিৰ লোকাচাৰ, ধৰ্মীয় পৰম্পৰা, উতসৱ-পাৰ্বণ পৰিবেশ কলা, স্থাপত্য ভাস্কৰ্য্য চিত্ৰকলাৰ জ্ঞান লভাৰ লগতে বৃহত্তৰ অসমীয়া জাতিগঠন প্ৰক্ৰিয়াৰ আভাস পাব।
ASM-SE-3014: Byaboharik Asomiya	এই পাঠ্যৰ দ্বাৰা অসমীয়া বিষয়ৰ জ্ঞানেৰে ছাত্ৰ-ছাত্ৰীয়ে পৰবৰ্তী পয়ায়ক জীৱনৰ বৃত্তিৰূপে গ্ৰহণ কৰিব পৰা বিশেষ বিষয়ৰ প্ৰাথমিক আৰু প্ৰয়োগিক জ্ঞান লাভ কৰিব পাৰিব।
ASM-RC-3016: Asomiya Natak aru Manchakala	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে লোকনাট্য, প্ৰচেনিয়াম, বিকল্প মঞ্চৰ বিষয়ে জনাৰ লগতে মঞ্চ আৰু অভিনয়ৰ আনুষংগিক দিশসমূহৰ জ্ঞানো লাভ কৰিব পাৰিব।
ASM –HC-4016:(Tulanamulak Bharatiya Sahitya)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে তুলনামূলক সাহিত্যৰ পটভূমিৰ বিষয়ে জনাৰ লগতে আধুনিকযুগৰ ভাৰতীয় সাহিত্যত বিষয়ে জানিব পাৰিব।
ASM –HC-4026:(Asomiya Bhasar Samaharar)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে বাংলা, উড়ীয়া আদি আৰ্য ভাষাৰ সৈতে অসমীয়া ভাষাৰ সম্পৰ্কৰ বিষয়ে জনাৰ উপৰিও অসমীয়া ভাষাত আৰ্য ভিন্ন ভাষাৰ প্ৰভাৱ, উপাদান আদিৰ বিষয়ে জানিব পাৰিব।
ASM –HC-4036:(Asomiya Gadya Sahitya)	এই পাঠ্যৰ দ্বাৰা ছাত্ৰ-ছাত্ৰীয়ে শংকৰদেৱৰ নাটৰ গদ্যৰ পৰা বুৰঞ্জীৰ গদ্যলৈকে এটা ধাৰণা লব পাৰিব।
ASM –CC-4016:(Adhunik Axomiya Hahitya)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে আধুনিক অসমীয়া সাহিত্যৰ বহু-বহু কবিতা, চুটিগল্প, প্ৰবন্ধ আৰু নাটকৰ সৈতে অন্তৰংগতা স্থাপন কৰিব পাৰিব।
ASM –SE-4014:(Srijanimulak Sahitya)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে কবিতা আৰু গল্প লিখাৰ প্ৰাথমিক জ্ঞান লাভ কৰিব পাৰিব।
ASM –RC-4016:(Adunik Asomiya Creettee Sahitya)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে আধুনিক অসমীয়া গীতি সাহিত্যৰ বিভিন্ন পাঠৰ যুগমীয়া গীতৰ সৈতে পৰিচয় লাভ কৰিব পাৰিব।
ASM –HC-5016:(Asomiya Natak Aru Paribesan Saili)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া নাটকৰ ইতিহাসৰ ৰূপৰেখা বিষয়ে অৱগত হোৱাৰ লগতে প্ৰতিনিধিমূলক নাটক বিশেষৰ শৈলীৰ বিষয়েৰও জানিব পাৰিব।
ASM –HC-5026:(Asomiya Byakaran)	এই পাঠ্যৰ দ্বাৰা ছাত্ৰ-ছাত্ৰীয়ে উচ্চ ব্যাকৰণৰ ৰীতি অনুযায়ী অসমীয়া ভাষাৰ বৈয়াবৰণিক বিশ্লেষণ আয়ত্ব কৰিব পাৰিব।
ASM –HC-5016:(Asomiya Loko-Sahitya Adhyan)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে লোক সাহিত্যৰ স্বৰূপ আৰু অসমীয়া লোকসাহিত্যৰ বিভিন্ন সময়ৰ সৈতে পৰিচিত হ'ব পাৰিব।
ASM –SE-5016:(Abritti kala)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে কবিতা আবৃত্তিৰ তাত্ত্বিক আৰু প্ৰায়োগিক জ্ঞান লাভ কৰিব পাৰিব।

ASM –HC-6016(Asomiya Suti Galpa aru Upanyas)	এই পাঠ্যৰ দ্বাৰা ছাত্ৰ-ছাত্ৰীয়ে অসমীয়া চুটিগল্প আৰু উপন্যাসৰ বিষয়ে জনাৰ উপৰিও অসমীয়া ভাষাৰ বিশেষ উল্লেখযোগ্য গল্প আৰু উপন্যাসৰ বসাহাদন কৰিব পাৰিব।
ASM –HC-6026(Asomiya Lipir Itihas)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া লিপিৰ ইতিহাসৰ আভাস পোৱাৰ লগতে অসমৰ শিলালিপি অসমৰ তাম্বলিপি সম্পৰ্কও জ্ঞান লাভ কৰিব পাৰিব।
ASM –HE-6016(Lakshiminath Bejbaruah)	এই পাঠ্যৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে সাহিত্যৰথী লক্ষ্মীনাথ বেজবৰুৱাৰ সৃষ্টিশীল আৰু চিন্তামূলক লেখাৰে আভাষ পাব।
ASM –HE-6056(Prakalpa)	এনে প্ৰকল্পৰ দ্বাৰা কোনো বিশেষ অঞ্চলৰ লোক-সংস্কৃতিক দিশৰ বিভিন্ন অনুদাৰিত বিষয় উন্মোচিত হোৱাৰ পূৰ্ণ সম্ভাৱনা আছে, যি ছাত্ৰ-ছাত্ৰী জ্ঞান বৃদ্ধিত বিশেষ সহায়ক হ'ব।
ASM –RE-6016(Chanda aru Alankar)	এই পাঠ্যৰ দ্বাৰা ছাত্ৰ-ছাত্ৰীসকলে ছন্দ আৰু অলংকাৰ তাত্ত্বিক জ্ঞান লাভ কৰিব পাৰিব।
ASM –SE-6014(Asomiya Akhar Jutani)	এই পাঠ্যৰ দ্বাৰা ছাত্ৰ-ছাত্ৰীয়ে অসমীয়া আখৰ-জোঁটনিৰ নিয়ম আৰু কৌশল আহৰণ কৰিব পাৰিব।

DEPARTMENT OF BOTANY

COURSES	COURSE OUTCOMES
Core Papers Course Name: Phycology and Microbiology Paper code: BOT-HC-1016	Students can acquire detailed knowledge on microbes, viruses and bacteria, and their importance in agriculture and medicine. Students can gain knowledge on Algal classification, Economic and ecological importance of Algae.
Course Name: Phycology and Microbiology (Practical) Paper code: BOT-HC-1016	Students can gather practical knowledge on structure of T-Phage and TMV, lytic and lysogenic life cycle. Students can gather practical knowledge on microscopy of bacteria and algae.
Course Name: Biomolecules and Cell Biology Paper code: BOT-HC-1026	Students can acquire detailed knowledge on structure, classification and physicochemical properties of biomolecules and enzymes. Students can acquire detailed knowledge on structure, properties and functions of cell and its components.
Course Name: Biomolecules and Cell Biology (Practical) Paper code: BOT-HC-1026	Students will able to have practical knowledge on properties of cell and cell membrane, DNA staining techniques and microscopy of plant cell. Students can acquire knowledge on qualitative tests of biomolecules.
Honours Generic Elective Paper Course Name: Biodiversity (Microbes, Algae, Fungi and Archegoniate) Paper code: BOT-HG-1016	Students can gather knowledge on structure and reproduction of viruses and bacteria, describe general characteristics, morphological diversity, thallus organization, life cycles, of algae, fungi, bryophytes, pteridophytes and gymnosperms.

	Detailed knowledge on classification, evolution, economic importance and diversity of plant forms.
Course Name: Biodiversity (Microbes, Algae, Fungi and Archegoniate) (Practical) Paper code: BOT-HG-1016	Students can acquire practical knowledge on staining and slide preparation to study bacteria, algae and fungi under the microscope. Practical knowledge on vegetative and reproductive structures of some representative bryophytes, pteridophytes and gymnosperms.
Core Papers Course Name: Mycology and Phytopathology Paper code: BOT-HC-2016	Students can gather detailed knowledge on different classes of fungi, their structure, classification, life cycle and Reproduction. Knowledge on diseases in plants caused by viruses, bacteria and fungi and biotechnological applications of fungi.
Course Name: Mycology and Phytopathology (Practical) Paper code: BOT-HC-2016	Students can learn through detailed structural analysis of different classes of fungi and their reproductive stages. Knowledge on structures of symbiotic associations (Lichens, Mycorrhiza).
Course Name: Archegoniate Paper code: BOT-HC-2026	Students can get detailed knowledge on morphology, anatomy, classification and properties of bryophytes, pteridophytes and gymnosperms. Knowledge on reproduction and economic importance and ecological significance of bryophytes, pteridophytes and gymnosperms.
Course Name: Archegoniate (Practical) Paper code: BOT-HC-2026	Students can have practical knowledge on morphology and reproductive structures of archegoniates. Understand spore morphology analysis and detailed knowledge on male and female reproductive structures in gymnosperms.
Honours Generic Elective Paper Course Name: Plant Ecology and Taxonomy Paper code: BOT-HG-2016	Students can improve their understanding on soil, water, light and temperature as ecological factors. Knowledge on adaptive characters of hydrophytes and xerophytes and plant community types and their succession, ecosystem, trophic levels and energy flow in ecosystems, biogeochemical cycling with an emphasis on carbon, nitrogen and phosphorus cycles. Knowledge on phytogeography and endemism, plant taxonomy, principles, ICN rules, ranks and hierarchy, different systems of plant classification and cluster analysis.
Course Name: Plant Ecology and Taxonomy (Practical) Paper code: BOT-HG-2016	Students can enhance their practical knowledge on soil temperature measurement, humidity measurement, rainfall, estimation and light intensity measurement, learn about adaptive morphological characterization of hydrophytes and xerophytes. Determine quadrat size and frequency distribution of herbaceous plants in ecology and gather practical knowledge on plant identification upto the family level and learn to prepare of herbarium specimens.
Core Papers	Students can gather knowledge on morphology of

Course Name: Morphology and Anatomy of Angiosperm Paper code: BOT-HC-3016	angiosperms and developmental biology of plant body. Knowledge on structural and anatomical organization of tissue system in plants and their classification.
Course Name: Morphology and Anatomy of Angiosperm (Practical) Paper code: BOT-HC-3016	Students can acquire practical knowledge on inflorescences and fruits of angiosperms. Practical knowledge on anatomical features of plant body parts.
Course Name: Economic Botany Paper code: BOT-HC-3026	Students can enhance their knowledge on morphology, uses and economic importance of crop plants. Knowledge on uses of industrially important plants.
Course Name: Economic Botany (Practical) Paper code: BOT-HC-3026	Students can gather practical knowledge on economically important plant parts and their products. Anatomical knowledge on economically important crops with their botanical characters and parts used.
Course Name: Genetics Paper code: BOT-HC-3036	Students can acquire knowledge on Mendelian concepts in genetics; structure, functions and properties of chromosome; chromosomal aberration. Knowledge on gene structures and gene mutations, population genetics.
Course Name: Genetics (Practical) Paper code: BOT-HC-3036	Students can have practical knowledge on chromosomal mapping and gene interaction studies. Practical visualization of chromosomal anomalies.
Honours Generic Elective Paper Course Name: Plant Physiology and Metabolism Paper code: BOT-HG-3016	Students can enhance their understanding regarding the roles of water in plant physiology, transpiration, and guttation, knowing of macro- and micro-nutrients and mineral uptakes and transportations of minerals and foods in plants. Knowledge on photosynthetic pigments, photosynthetic reactions and photorespiration, understanding of respiration processes, enzymes, biological nitrogen fixation, plant hormones, and plant responses to light and temperature.
Course Name: Plant Physiology and Metabolism (Practical) Paper code: BOT-HG-3016	Students can learn to determine osmotic potentials of plant cells and effect of light on transpiration, calculate stomatal index and frequency. Demonstrate the effect of pH and concentrations in catalase activity and effect of bicarbonate concentration on O ₂ evolution in photosynthesis.
Skill Enhancement Paper Course Name: Biofertilizers Paper code: BOT- SE-3014	Students can enhance their basic knowledge on the microbes used as biofertilizer and understand the process of their isolation, identification, mass multiplication, carrier based inoculants and knowledge on actinorrhizal symbiosis Concept on use of different life forms as biofertilizer such as bacteria, cyanobacteria and brief knowledge on the mycorrhizal association. Details about the organic farming, maintenance and recycling of biodegradable waste material and understand the methods of making biocompost and vermicompost with application.
Core Papers	Students can gather detailed knowledge on

Course Name: Molecular Biology Paper code: BOT-HC-4016	architecture of nucleic acids, organization of DNA in organisms, models of replication and the factors associated with it. Detailed knowledge on transcriptional and post transcriptional events in a cell, translation of proteins.
Course Name: Molecular Biology (Practical) Paper code: BOT-HC-4016	Students can get practical acquaintance of isolation and quantification of DNA from plants. Knowledge on photographic study of RNA polymerases and RNA modification machinery.
Course Name: Plant Ecology and Phytogeography Paper code: BOT-HC-4026	Students can gather knowledge on origin, formation and properties of abiotic components of the ecosystem, interactions and adaptation of plants with biotic and abiotic factors. Knowledge on properties of communities in a population and trophical and habitat organization in an ecosystem.
Course Name: Plant Ecology and Phytogeography (Practical) Paper code: BOT-HC-4026	Students can acquire practical knowledge on property analysis of abiotic components of the ecosystem. Practical knowledge on vegetation study and different ecological sites.
Course name: Plant Systematics Paper code: BOT-HC-4036	Students can gain knowledge on plant identification and classification systems, plant nomenclature. Knowledge on phylogenetic and evolutionary relationships of angiosperms.
Course name: Plant Systematics (Practical) Paper code: BOT-HC-4036	Students can acquire practical knowledge on foliar morphology and taxonomical study of angiosperms. Practical knowledge on plant identification upto the family level that belongs to Fabaceae, Solanaceae, Acanthaceae, Lamiaceae, Euphorbiaceae, Musaceae, Orchidaceae. Student can learn to prepare of herbarium.
Honours Generic Elective Paper Course name: Plant Anatomy and Embryology Paper code: BOT-HG-4016	Students can gather knowledge on different types of tissues and their organizations, secondary growth and anomalous structures, adaptive and protective characters of plants. Understanding the reproductive units of a flower; ovule types, ovary types, pollination and fertilization mechanisms; embryo and endosperm developments and functions.
Course name: Plant Anatomy and Embryology (Practical) Paper code: BOT-HG-4016	Hands on experiences on slide preparation for anatomical studies of leaf, stem and root. Students can learn flower dissection and study of flower reproductive parts and events.
Skill Enhancement Paper Course name: Nursery and Gardening Paper code: BOT-SE-4014	Students can gather a brief idea about objectives, scope, infrastructure and maintenance of nursery. Concept on structure, types and dormancy of seeds and brief idea about seed storage including types and process and knowledge on seed production technology. Knowledge on various modes of vegetative propagation and maintenance of plants in green house,

	<p>development and maintenance of gardening including scope and types and understand the various gardening operations including management of pests and diseases.</p> <p>Detail knowledge on managements of seeds and seedlings and concept about cultivation, storage and marketing of important vegetables.</p>
<p>Core Papers</p> <p>Course name: Reproductive Biology of Angiosperms</p> <p>Paper code: BOT-HC-5016</p>	<p>Students can gain knowledge on detailed morphological and anatomical study of reproductive structures of angiospermic plants.</p> <p>Knowledge on embryology and embryological abnormalities in angiosperms.</p>
<p>Course name: Reproductive Biology of Angiosperms (Practical)</p> <p>Paper code: BOT-HC-5016</p>	<p>Students can acquire practical knowledge on Structural documentation of reproductive structures of angiosperms.</p> <p>Practical knowledge on developmental biology of embryo and endosperms.</p>
<p>Course name: Plant Physiology</p> <p>Paper code: BOT-HC-5026</p>	<p>Student can acquire detailed knowledge on mechanisms of water, minerals and nutrient absorption of plants.</p> <p>Knowledge on roles of plant hormones and mechanism of flowering in plants.</p>
<p>Course name: Plant Physiology (Practical)</p> <p>Paper code: BOT-HC-5026</p>	<p>Students can gather practical knowledge on effects of growth regulators on plant parts.</p> <p>Practical knowledge on determination of osmotic and water potential.</p>
<p>Discipline Specific Elective (DSE) Papers</p> <p>Course name: Natural Resource Management</p> <p>Paper code: BOT-HE-5016</p>	<p>Students can gather comprehensive knowledge on different types of natural resources and their ecological, economical and socio-cultural values</p> <p>Basic understandings of land, water and forest resources and overall knowledge on resource degradation, their judicious use and management for sustainability</p> <p>Knowledge on biodiversity - its importance, management and Bioprospecting, IPR, and global arena on resource management, conservation and benefit sharing.</p>
<p>Course name: Natural Resource Management (Practical)</p> <p>Paper code: BOT-HE-5016</p>	<p>Students will get hands on experience on the domestic solid waste estimation and determining its impact on land degradation.</p> <p>Hands on experience on forest study using tools like GPS/GIS, and understanding of ecological importance of forest resources.</p>
<p>Course name: Horticultural Practices and Post-Harvest Technology</p> <p>Paper code: BOT-HE-5026</p>	<p>Students can improve their basic understandings on Horticultural science and its importance in employment generation and socio-economic development.</p> <p>Students can understand about the classification of horticultural crops, identification of potential horticultural crops – their cultivation, production, management and commercialization</p> <p>Overall knowledge on post-harvest technology, disease management, and germplasm management for horticulture.</p>

Course name: Horticultural Practices and Post-Harvest Technology (Practical) Paper code: BOT-HE-5026	Students can have a practical knowledge on horticultural techniques, landscaping and gardening. Practical knowledge on important horticulture crops.
Core Papers Course name: Plant Metabolism Paper code: BOT-HC-6016	Students can gather detailed knowledge of metabolic events of photosynthesis and nutrient metabolism. Knowledge of signalling molecules and pathways in the plant cell.
Course name: Plant Metabolism (Practical) Paper code: BOT-HC-6016	Students can have practical knowledge on different types of chromatographic techniques. Estimation of TAN, sugar and protein contents in plant sample.
Course name: Plant Biotechnology Paper code: BOT-HC-6026	Students can acquire knowledge on applications of tissue culture techniques, construction of recombinant DNA and transformation into hosts, construction of DNA libraries. Knowledge on development of transgenic plants for agricultural or industrial use.
Course name: Plant Biotechnology (Practical) Paper code: BOT-HC-6026	Students can get a better understanding on practical utility on isolation of plasmid DNA, its digestion and separation of fragments through gel electrophoresis. Students can learn regarding the preparation of media for tissue culture techniques and photographic study of plant tissue culture. Photographic study of generating transgenic plants for agriculture.
Discipline Specific Elective (DSE) Papers Course name: Industrial and Environmental Microbiology Paper code: BOT-HE-6016	Students can gather better understanding on the roles of microbes in industries and environment. Knowledge on application of enzymes in industries and diversity and distribution of microbes in air, water and soil. Basic understandings on water microbiology and water analysis methods and usefulness of microbes in agriculture and bioremediation of contaminated soils.
Course name: Industrial and Environmental Microbiology (Practical) Paper code: BOT-HE-6016	Students can experience hands on sterilization techniques and preparation of culture media. Practical experiences on basic microbiological techniques and handlings such as functioning of microbial instruments and pure culture techniques.
Course name: Analytical Techniques in Plant Sciences Paper code: BOT-HE-6026	Students can acquire knowledge on microscopy and imaging in plant science. Principles and application of centrifuge, spectroscopy and chromatography in biology. Students can enhance their basic knowledge on biostatistics including measures of central tendency and dispersions, statistical data analysis and representations.
Course name: Analytical Techniques in Plant Sciences (Practical) Paper code: BOT-HE-6026	Students can acquire practical knowledge on microscopy, chromatography, centrifugation and spectroscopy. Study of different microscopic techniques using

	photographs/micrographs.
Course name: Project work/Dissertation Paper code: BOT-HE-6036	Students can gather practical knowledge on addressing relevant scientific questions through experimentation. Hands on training will help them in understanding the actual field of work.

DEPARTMENT OF CHEMISTRY (HONOURS)

Courses	Course Outcomes
Course Name: INORGANIC CHEMISTRY - I Paper Code: CHE-HC-1016	On successful completion, students would have clear understanding of the concepts related to atomic and molecular structure, chemical bonding, periodic properties and redox behaviour of chemical. Students will also have hands on experience of standard solution preparation in different concentration units and learn volumetric estimation through acid-base and redox reactions.
Course Name: PHYSICAL CHEMISTRY I Paper Code: CHE-HC-1026	In gaseous state unit the students will learn the kinetic theory of gases, ideal gas and real gases. In liquid state unit, the students are expected to learn the qualitative treatment of the structure of liquid along with the physical properties of liquid, viz, vapour pressure, surface tension and viscosity.
Course Name: ORGANIC CHEMISTRY I Paper Code: CHE-HC-2016	Students will be able to identify different classes of organic compounds, describe their reactivity and explain/analyze their chemical and stereo chemical aspects
Course Name: PHYSICAL CHEMISTRY II Paper Code: CHE-HC-2026	In this course the students are expected to learn laws of thermodynamics, thermochemistry, thermodynamic functions, relations between thermodynamic properties, Gibbs Helmholtz equation, Maxwell relations etc. Moreover the students are expected to learn partial molar quantities, chemical equilibrium, solutions and colligative.

Course Name: INORGANIC CHEMISTRY-II Paper Code: CHE-HC-3016	On successful completion of this course students would be able to apply theoretical principles of redox chemistry in the understanding of metallurgical processes. Students will be able to identify the variety of s and p block compounds and comprehend their preparation, structure, bonding, properties and uses.
Course Name: ORGANIC CHEMISTRY-II Paper Code: CHE-HC-3026	Students will be able to describe and classify organic compounds in terms of their functional groups and reactivity.
Course Name: PHYSICAL CHEMISTRY-III Paper Code: CHE-HC-3036	The students are expected to learn phase rule and its application in some specific systems. They will also learn rate laws of chemical transformation, experimental methods of rate law determination, steady state approximation etc
Course Name: INORGANIC CHEMISTRY-III Paper Code: CHE-HC-4016	On successful completion, students will be able name coordination compounds according to IUPAC, explain bonding in this class of compounds, understand their various properties in terms of CFSE and predict reactivity.
Course Name: ORGANIC CHEMISTRY-III Paper Code: CHE-HC-4026	Students shall demonstrate the ability to identify and classify different types of N-based derivatives, alkaloids and heterocyclic compounds/explain their structure mechanism and reactivity/critically examine their synthesis and reactions mechanism
Course Name: PHYSICAL CHEMISTRY-IV Paper Code: CHE-HC-4036	In this course the students will learn theories of conductance and electrochemistry. Students will also understand some very important topics such as solubility and solubility products, ionic products
Course Name: ORGANIC CHEMISTRY-IV Paper Code: CHE-HC-5016	Students will be able to explain/describe the important features of nucleic acids, amino acids and enzymes and develop their ability to examine their properties and applications
Course Name: PHYSICAL CHEMISTRY V Paper Code: CHE-HC-5026	After completion of this course the students are expected to understand the application of quantum mechanics in some simple chemical systems such as hydrogen atom or hydrogen like ions.
Course Name: INORGANIC CHEMISTRY-IV Paper Code: CHE-HC-6016	By studying this course the students will be expected to learn about how ligand substitution and redox reactions take place in coordination complexes.

Course Name: ORGANIC CHEMISTRY-V Paper Code: CHE-HC-6026	Students will be able to explain/describe basic principles of different spectroscopic techniques and their importance in chemical/organic analysis. Students shall be able to classify/identify/critically examine carbohydrates, polymers and dye materials.
Course Name: ANALYTICAL METHODS IN CHEMISTRY Paper Code: CHE-HE-5026	On successful completion students will be have theoretical understanding about choice of various analytical techniques used for qualitative and quantitative characterization of samples .
Course Name: INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS Paper Code: CHE-HE-5066	Students shall be able to explain the theoretical basis of different analytical techniques, identify the experimental requirements and compare/analyze the data/results thereof.
Regular	
Course Name: CHEMISTRY1 Paper Code: CHE-RC-1016 & Paper Code: CHE-HG-1016	After completion of this course the students will learn the atomic structure through the basic concepts of quantum mechanics. They will understand the chemical bonding through VB and MO approaches. In organic part, the students are expected to learn basic ideas used in organic chemistry, stereochemistry, functional groups, alkanes, alkenes, alkynes etc.
Course Name: CHEMISTRY2 Paper Code: CHE-RC/HG-2016	After completion of this course the students will learn periodic properties in main group elements, transition metals (3d series). They will also learn the crystal field theory in coordination chemistry unit.
Course Name: CHEMISTRY 3 Paper Code: CHE-RC/HG-3016	After completion of this course the students will able to understand the chemical system from thermodynamic points of view. They will also learn two very important topics in chemistry- chemical equilibrium and ionic equilibrium
Course Name: CHEMISTRY4 Paper Code: CHE- RC/HG-4016	After completion of this course the students learn solutions, phase rule and its application in specific cases, basics of conductance and electrochemistry. Students will also learn some important topics of organic and biochemistry- carboxylic acids, amines, amino acids, peptides, proteins and carbohydrates.
Course Name: POLYMER CHEMISTRY Paper Code: CHE-RE-5056	After completion of this course the students will learn the definition and classifications of polymers, kinetics of polymerization, molecular weight of polymers, glass transition temperature, and polymer solutions etc. They also learn the brief introduction of preparation, structure and properties of some

	industrially important and technologically promising polymers.
Course Name: GREEN CHEMISTRY Paper Code: CHE-RE-6016	Apart from introducing learners to the principles of green chemistry, this course will make them conversant with applications of green chemistry to organic synthesis. Students will be prepared for taking up entry level jobs in the chemical industry. They also will have the option of studying further in the area.

Department of Commerce

Course name & Paper Code	Course Outcomes
Business Communication(English/MIL) (BCM-AE-1014)	To equip students of the B.Com (Hons) course effectively to acquire skills in reading, writing, comprehension and Communication of English, as also to use electronic media for business and to provide students of basic knowledge of Assamese literature, culture and tradition.
Financial Accounting (COM-HC-1026) & (COM-RC-1026)	The outcome of this paper is to help students to acquire conceptual knowledge of the financial accounting. To impart skills for recording various kinds of business transactions. Students will be able to examine the qualitative aspect of the published financial statements and to analyze these statements in the light of applicable accounting standards. To apply basic knowledge on computerized accounting in preparing accounts.
Business Law (COM-HC-1036) & (COM-RC-2026)	To impart basic knowledge of the important business legislation along with relevant case law.
Investing in stock markets (COM-GE-1046(B))	This paper intends to provide basic skills to operate in stock markets and the ways of investing in it. It will enable the student to take up investment in stock market independently.
Environmental Studies (ENV-AE-2014)	It is an inter disciplinary academic field and is common to all the three streams i e Science, Art and Commerce. It includes study of ecology, biology, plant science, soil science etc . It aware the students to care about nature and to endow knowledge about sustainable development.
Corporate Accounting (COM-HC-2026)	To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statement.

Corporate Laws (COM-HC-2036)	To impart basic knowledge of the provisions of the Companies Act 2013 and the Depositories Act 1996.
Insurance and Risk Management (COM-GE-2046(B))	To develop on understanding among students about identifying, analyzing and managing various types of risk. To help the students are in the position to understand the principles of insurance and it's usefulness along with its regulatory framework.
Computer Applications in Business (COM-HC-3016) & COM-SEC-RC-3044(A)	To provide computer skills and knowledge for Commerce students. To enhance the student understands of usefulness of information technology tools for business operations.
Income tax Law and Practice (COM-HC-3026) & (COM-RC-3026)	To provide basic knowledge and equip students with application of principles and provisions of Income Tax Act,1961 and the relevant rules.
Management Principles and Applications (COM-HC-3036)	The objective of this course is to provide the student with an understanding of basic management concepts, principles and practices.
Business Statistics COM-GE-3046(A)	To familiarize students with the basic Statistical tools used for managerial decision making process.
Entrepreneurship COM-SEC-HC-3054(A) & COM-SEC-RC-5024(A)	The purpose of the paper is to orient the learner toward entrepreneurship as a career option and creative thinking and behavior.
Cost Accounting (COM-HC-4016) & (COM-RC-4036)	To acquaint students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping system.
Business Mathematics (COM-HC-4026)	The objective of this course is to familiarize the students with the basic financial mathematics tools, with an emphasis on applications to business and economic situations.
Human Resource Management (COM-HC-4036)	To acquaint students with the techniques and principles to manage human resource of an organization.
MicroFinance (COM-GE-4046(B)) & COM-GE-RC-6046(B)	The course aims to make the students understand the basic concepts of micro finance and it's importance , institution structure , management of micro finance institutions and micro finance Indian context.
E-commerce (COM-SEC-HC-4054(A)) & (COM-SEC-RC-4044(A))	To enable the student to become familiar with the mechanism for conducting business transactions through electronic means.
Principles of Marketing (COM-HC-5016)	The objective of this course is to provide basic knowledge of concepts, principles, tools and techniques of marketing.
Fundamentals of Financial Management (COM-HC-5026) & COM-DSE-RC-5026(A)	To familiarize the students with the principles and practices of Financial Management.
Banking	To help the students to acquire the basic knowledge

(COM-DSE-HC-5036(D) & COM-DSE-RC-6016(B)	regarding banks, it's functions, types and relevant instruments and to provide knowledge about Banking Regulation Act.
Indian Financial System COM-DSE-HC-5036(F) & COM-DSE-RC-5016(D)	To provide students the basic knowledge of Indian Financial System and it's components, institutions and their functions.
Auditing and Corporate Governance (COM-HC-6016)	To provide knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards. To give an overview of the principles of Corporate Governance and Corporate Social Responsibility
Indirect Tax Laws (COM-HC-6026)	To provide basic knowledge and equip students with application of principles and provisions of Service Tax, VAT, Central Excise and Custom Laws.
International Business COM-DSE-HC-6036(D) & COM-DSE-RC-6026(A)	To familiarize the students with the concepts, importance and dynamic of international business and India's involvement with global business. The course also seeks to provide theoretical foundations of international business to the extent that are relevant to the global business operations and development.
Industrial Relations and Labour Laws COM-DSE-HC-6036(E)	To enable the students to learn the concept of industrial Relations including trade unions, collective bargaining, discipline and various labour enactments.
Business Organization and Management (COM-RC-1036)	The course aims to provide basic knowledge to the students about the organization and management of a business enterprise.
Business Mathematics and Statistics (COM-RC-2036)	The objective of this course is to familiarize the students with the application of mathematics and statistical techniques in business decision making.
English II (Eng. CC-1016)	It's purpose and aim is to impart knowledge to the students to develop communication skills in English and to bring proficiency in reading, speaking & writing of English.
Company Law (COM-RC-3016)	The objective of this course is to impart basic knowledge of the provisions of the Companies Act , 2013. It will help to discuss the case studies involving issues in Company Law .
Soft skills for business (COM-CC-4016)	To enhance learners' confidence in using English for academic, professional and social purposes. To enable the learners to express ideas logically and coherently through speech as well as writing. To enable learners to write formal and business documents for commercial correspondence, such as reports, letter, memos etc. To enable the learners to develop and practice soft

	skills for oral communication.
Retail Management COM-SEC-RC-6034(B)	The primary objective of the course is to have students develop marketing competencies in retailing and retail consulting. The course is designed to prepare students for position in the retail sector or positions in the retail divisions of consulting companies.
Advanced Corporate Accounting COM-DSE-HC-6036(C)	This subject helps a student to acquire knowledge about merger and acquisition of companies and also for internal reconstruction of holding companies and also recent development in accounting.
Management accounting COM-DSE-HC-5036(A) & COM-DSE-RC-6016(C)	To impart the students, knowledge about the use of financial, cost and other data for the purpose of managerial planning, control and decision making.

Department of Education Honours Course

Paper Name & Code	Course Outcome
Principles of Education EDU-HC-1016	<ol style="list-style-type: none"> 1.Acquaint the students with the sound principles of education 2.Acquaint the students with the important concepts of Education, Curriculum, Democracy, Discipline and Freedom. 3.Develop knowledge about different Aims of Education, various types of Curriculum, Correlation of Studies and Forms of Discipline. 4. Familiarise the students with democratic idea of modern education.
Psychology of Education EDU-HC-1026	<ol style="list-style-type: none"> 1. Make the students understand the relationship between education and psychology. 2. Explain the need of educational psychology in teaching learning process. 3. Describe the nature and theories of learning and role of motivation in learning. 4. Understand the concept of memory, forgetting, attention and interest. 5. Understand intelligence, its theories and measurement. 6. Acquaint with different types of personality and the adjustment mechanism.
Development of Education In India- II EDU-HC-3016	<ol style="list-style-type: none"> 1.Understand the Educational situation during the time of Independence 2.Explain the recommendations and educational importance of different Education Commission and Committees in post Independent India 3. Analyse the National Policy on Education in different tomes 4.Accustom with the recent Educational Development in India
Educational Technology and Teaching Methods EDU-HC-3026	<ol style="list-style-type: none"> 1.Make the students understand the objective of educational technology in teaching learning process

	<ol style="list-style-type: none"> 2. Acquaint the students with innovations in the field of education through technology 3. Make the students understand about various methods and devices of teaching 4. Acquaint students with levels, effectiveness of teaching and classroom management 5. Make the students understand the strategies of effective teaching as a profession.
Value and Peace Education EDU-HC-3036	<ol style="list-style-type: none"> 1. Understand the concept and meaning of value. 2. Become aware about the role of educational institutions in building a value based society. 3. Understand the meaning and concept of peace and its importance in human life. 4. Understand the meaning and importance of peace education and its relevance at national and international level. 5. Identify the different issues/ challenges in imparting peace education. 6. Identify the strategies and skills in promoting peace education at institutional level.
Public Speaking Skill EDU-SEC-3014	After completing this course, students will be able to acquire the capacities of public speaking skill.
Measurement and Evaluation in Education & Practical EDU-HC-5016	<ol style="list-style-type: none"> 1. Enable the students to understand the concept of measurement and evaluation in education. 2. Acquaint the students with the general procedure of test construction and characteristics of a good test. 3. Develop an understanding of different types of educational tests and their uses. 4. Acquaint the students about personality test, and aptitude tests.
Guidance and Counselling EDU-HC-5016	<ol style="list-style-type: none"> 1. Help the students to understand the concept, need and importance of Guidance and Counselling 2. Enable the students to know the different types and approaches to Guidance and Counselling 3. Acquaint the students with the organization of guidance service and school guidance clinic 4. Enable the learners to understand the challenges faced by the teacher as guidance worker.
Developmental Psychology EDU-DSE-5026	<ol style="list-style-type: none"> 1. Enable the students to understand the basic concepts relating to development 2. Acquaint the students about heredity and environmental factors affecting pre-natal development 3. Enable the students to understand the development aspects during infancy and childhood 4. Enable the students to understand the development aspects of

	adolescence, importance of adolescence period and problems associated with this stage.
Teacher Education in India EDU-DSE-5046	<ol style="list-style-type: none"> 1.Explain the Concept, Scope, Aims & Objectives and Significance of teacher education 2. Acquaint with the development of Teacher Education in India 3.Acquaint with the different organising bodies of teacher education in India and their functions in preparation of teachers for different levels of education 4.Acquaint with the innovative trends and recent issues in teacher education, and be able to critically analyse the status of teacher education in India 5. Understand and conceive the qualities, responsibilities and professional ethics of teachers

Regular Course

Paper Name & Code	Course Outcome
Foundation of Education EDU-RC-1016	<ol style="list-style-type: none"> 1. Acquaint with the principles of education. 2. Gain knowledge about different various Forms and Aims of Education. 3. Understand the concept and importance of Discipline and Freedom. 4. Acquire knowledge about the concept of Emotional and National Integration and International Understanding.
Guidance and Counselling EDU-RC-3016	<ol style="list-style-type: none"> 1.Help the students to understand the concept, need and importance of Guidance and Counselling 2. Enable the students to know the different types and approaches to Guidance and Counselling 3. Acquaint the students with the organization of guidance service and school guidance clinic 4.Enable the learners to understand the challenges faced by the teacher as guidance worker.
Public Speaking Skill EDU-SEC-3014	After completing this course, students will be able to acquire the capacities of public speaking skill.
Developmental Psychology EDU-DSE-5026	<ol style="list-style-type: none"> 1.Enable the students to understand the basic concepts relating to development 2. Acquaint the students about heredity and environmental factors affecting pre-natal development 3.Enable the students to understand the development aspects during infancy and childhood 4.Enable the students to understand the development aspects of adolescence, importance of adolescence period and problems associated with this stage.
Distance Education EDU-RC-5016	<ol style="list-style-type: none"> 1.Enable the students to understand the concept of distance education and its growth in India and Assam 2. Acquaint the students with the growing need and importance of distance education

	<p>3. Acquaint the students with the different forms and methodologies applied in distance education</p> <p>4. Enable the students to understand different programmes of distance education</p> <p>5. Acquaint the students with different instructional strategies of distance education</p>
Extension Activities EDU-SE-5014	After completing the course, students will be able to do extension activities

DEPARTMENT OF ECONOMICS

COURSES	COURSE OUTCOMES
Semester -I	
Course Name: Introductory Microeconomics Paper Code: ECO-HC-1016	<ul style="list-style-type: none"> • This paper will provide the basic principles of economics. • It will emphasis student to think like an economist. • The course will help the student how to illustrate microeconomic concepts and how to apply it in real life situations.
Course Name: Mathematical Methods for Economics-I Paper Code: ECO-HC-1026	<ul style="list-style-type: none"> • From this paper student will learn the basic mathematics and its applications in economics. • Student will learn the basic economic model of micro and macro economic theory and how to illustrate them mathematically.
Course Name: Fundamentals of Microeconomics Paper Code: ECO-HG-1016 & Course Name: Principles of Microeconomics-I Paper Code: ECO-RC-1016	<ul style="list-style-type: none"> • From this course student intent to expose the basic principles of Microeconomics theory. • The student will learn how to illustrate theories of economics and its applications. • Student will get the basic idea about demand, supply, cost, production, welfare etc.
Semester -II	
Course Name: Introductory Macroeconomics Paper Code: ECO-HC-2016	<ul style="list-style-type: none"> • This paper will introduce the basic idea of macroeconomics which is deals with aggregate economy. • This paper will understand the student how to measure aggregate macroeconomic variable like savings, investment, inflation and balance of payments etc.
Course Name: Mathematical Methods for Economics-II Paper Code: ECO-HC-2026	<ul style="list-style-type: none"> • This paper is the sequel of 1st semester paper about basic mathematics. • This paper will benefit students how to develop economic models through mathematics. • Students will be able to learn the linear algebra, different functions like homogeneous and homothetic functions and applications of different market models etc.
Course Name: Microeconomic Theory Paper Code: ECO-HG-2016 &	<ul style="list-style-type: none"> • This paper is a sequel to 1st Semester paper. • This paper will help student to get the basics of both perfect and imperfect competition. • It will be able to provide the basic idea of asymmetric

Course Name: Principles of Microeconomics- II Paper Code: ECO-RC-2016	information of market failure, externalities etc.
Semester-III	
Course Name: Intermediate Microeconomics-I Paper Code: ECO-HC-3016	<ul style="list-style-type: none"> • This paper provides a sound training on analysis pattern in micro economic theory especially on consumer behaviour. • This paper helps the student how to use mathematical tools to facilitate the basic micro economic concept. • This paper also covers the producer behaviour of a competitive firm.
Course Name: Intermediate Macroeconomics-II Paper Code: ECO-HC-3026	<ul style="list-style-type: none"> • This paper is an introduction on open economy model. • This paper introduces the student to formal modeling of a macro economy in terms of analytical tools. • This paper is a discussion on various alternative theories of output and employment
Course Name: Statistical Methods for economics Paper Code: Eco-HC-3036	<ul style="list-style-type: none"> • This paper is an introduction of some basic concepts and terminology of fundamental to statistical analysis and inference. • From this paper student have an idea about sampling technique and its uses. • From this paper students are able to have an idea about probability followed by probability distribution of discrete and continuous random variables and joint distribution.
Course Name: Fundamentals of Macroeconomics Paper Code: ECO-HG-3016 & Course Name: Principles of Macroeconomics- I Paper Code: ECO-RC-3016	<ul style="list-style-type: none"> • The course introduces the basic concept of macroeconomics. • From this paper student will be able to learn the measurement of various macro economic variables like GDP, consumption, savings, investment etc. • Students have an idea about GDP determination in short run.
Semester -IV	
Course Name: Intermediate Microeconomics-II Paper Code: ECO-HC-4016	<ul style="list-style-type: none"> • This paper is sequel to Intermediate Microeconomics-I • This paper wills emphasis giving clarity to the student with the use of mathematical tools and reasoning. • From this paper student will be able to know about general equilibrium. • This paper is an introduction about market and asymmetric information and various new concepts like signaling and screening etc.
Course Name: Intermediate Macroeconomics-II Paper Code: ECO-HC-4026	<ul style="list-style-type: none"> • This course is also sequel to previous paper Intermediate Macroeconomics-I. • This paper is an introduction about long run dynamic issues like growth with technical progress. • This paper will be able to provide the micro-foundations to the various aggregative concepts to the students.
Course Name: Introductory	<ul style="list-style-type: none"> • This course provides a comprehensive introduction to

<p>Econometrics Paper Code: Eco-HC-4036</p>	<p>basic econometric concepts and techniques.</p> <ul style="list-style-type: none"> • This paper will help the students to acquire the knowledge about hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. • It will also benefit the students for learning the consequences of various testing.
<p>Course Name: Macroeconomics Theory Paper Code: ECO-HG-4016 & Course Name: Principles of Macroeconomics- II Paper Code: ECO-RC-4016</p>	<ul style="list-style-type: none"> • This paper is an introduction on open economy. • This paper will helpful to students for learning about inflation and its relationship with unemployment. • This paper is sequel to previous 3rd semester paper and it will beneficial for the students to learn about various theories of determination of national income.
<p>Semester-V</p>	
<p>Course Name: Indian Economy-I Paper Code: ECO-HC-5016</p>	<ul style="list-style-type: none"> • This paper is helpful for any Competitive Examination appearing after graduation. • From this paper student will acquire the knowledge about Indian Economy. • Student will learn about demographic trends and issues, poverty , inequality and unemployment and many more, • Besides there is a unit on international comparisons with our neighbouring countries .From this unit student will gather their knowledge on various policies adopted by our neighbouring countries.
<p>Course Name: Development Economics-I Paper Code: ECO-HC-5026</p>	<ul style="list-style-type: none"> • From this paper students have an idea about development and their justification in development. • Student will able to learn the various growth models like Harrod-Domar, Solow and others. • The paper will be useful for students to know the mechanism of poverty and inequality.
<p>Course Name: Money and Financial Markets Paper Code: ECO-HE-5026</p>	<ul style="list-style-type: none"> • This paper will be useful for students preparing for different competitive exams. • From this paper student acquire knowledge on whole banking system of India. • Besides banking , this paper also includes whole financial institutions, markets, instruments and financial innovation, from where student get an idea about treasury bills, CP,CD , Govt. securities and many other things.
<p>Course Name: Public Finance Paper Code: ECO-HE-5036</p>	<ul style="list-style-type: none"> • This paper is very helpful for students to learn about the tax system prevailing in the country. • From this paper students get an idea about budget and its various types. • The course will be useful for students aiming towards careers in the Govt. sector, policy analysis, business and journalism.
<p>Course Name: Economic Development and Policy in India-I Paper Code: ECO-RG-5016(GE-1)</p>	<ul style="list-style-type: none"> • From this paper student will acquire knowledge on various debatable topics like poverty, unemployment, inequality etc.

	<ul style="list-style-type: none"> • This paper is useful for student to learn about various policies taken by Govt. and finally the centre- state financial relations. • This paper is helpful for any Competitive Examination appearing after graduation
Course Name: Money and Banking Paper Code: ECO-RE-5026(DSE-1)	<ul style="list-style-type: none"> • From this paper student acquire knowledge on whole banking system of India. • This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. • Besides students will able to learn about money, types and its measurement.
Semester-VI	
Course Name: Indian Economy-II Paper Code: ECO-HC-6016	<ul style="list-style-type: none"> • From this paper student will acquire knowledge on various policies adopted by the Govt. of India • To gain updated knowledge on recent development in Indian economy this paper will be helpful to students.
Course Name: Development Economics-II Paper Code: ECO-HC-6026	<ul style="list-style-type: none"> • This paper is helpful for students to know various demographic concepts like birth and death rates, age structure, fertility and mortality and many more. • This paper will acquire good knowledge on environment and sustainable development. • Finally from this paper student will be able to learn about globalization and its impact on various fields in the economy.
Course Name: The Economy of Assam Paper Code: ECO-HE-6016	<ul style="list-style-type: none"> • This paper will give an idea about the relationship between economy and environment, economy and ecosystem etc. • Students will be able to learn the various environmental policies adopted by the Govt. • Students will be able to learn about international environmental problems like trans boundary pollution, climate change etc.
Course Name: International Economics Paper Code: ECO-HE-6026	<ul style="list-style-type: none"> • From this paper student will be able to get the knowledge of direction and consequences of international trade. • Students acquire knowledge on various trade policies adopted in international trade like tariff, quota etc. • It also covers various models of open economy from where student gather their knowledge on international trade.
Course Name: Economic Development and Policy in India-II Paper Code: ECO-RG-6016(GE-2)	<ul style="list-style-type: none"> • This course examines sector-specific trends in key indicators and their implementations in the post-Independence period. • This paper is useful for student to learn about various policies taken by Govt. especially on agriculture, industry and foreign trade. • This paper is helpful for any Competitive Examination appearing after graduation
Course Name: Public Finance Paper Code: ECO-RE-5036(DSE-2)	<ul style="list-style-type: none"> • This paper is very helpful for students to learn about the tax system prevailing in the country. • From this paper students get an idea about budget and its various types.

- The course will be useful for students aiming towards careers in the Govt. sector, policy analysis, business and journalism

DEPARTMENT OF ENGLISH

COURSES (SEMESTER –I)	COURSE OUTCOME
Paper 1: ENG-HC-1016 Indian Classical Literature	This paper introduces students to a selection of literatures of India in English translation. Indian Classical Literature offers a rich and diverse canvas that spans across genres like drama, poetry, the epic narrative as well as short fictional fables. This paper encourages students to think laterally about literatures of the world, and the possibility of cultural exchange.
Paper 2: ENG-HC-1026 European Classical Literature	Classical writing in Europe saw the emergence of traditions that cut across many genres, which included poetry, theatre, and general discourses. Discussions on epic and drama by Aristotle and purposefulness of creative exercise by Horace as well as divergent compositions by Sophocles and Plautus and Homer's epics show the consolidation of a rich cultural discourse. This paper aims to enrich students through the study of representative texts belonging to the Classical Period.
Paper 3 : English Communication ENG-AE-1014	Communication is a skill which involves systematic and continuous process of speaking, listening and understanding. English is acknowledged passport to better education and employment opportunities. English language plays a crucial role to weave the world into a single thread. The aim of the paper is to develop English communication skills of the students.
Paper 4: English I ENG-CC-1016	The aim of this paper is to provide the student an opportunity to respond to representations of issues in contemporary life and culture. This paper deals with prose pieces written by Indian, British, American and diasporic writers. This paper also has a grammar section.
Paper 5: ENG-HG-1026 Individual and Society	The aim of this paper is to understand the relationship between the individual writer and the society and to develop skill in analyzing the author's representation of society and the individual in interaction and write critiques drawing out. It also helps students to learn to distinguish between literary representation and actual character and milieu.
COURSES (SEMESTER –II)	COURSE OUTCOME
Paper 6: ENG-HC-2016 Indian Writing in	This paper on Indian writing in English

English	introduces students to the historical development of this body of writing – the challenges faced by early writers, the growing sense of accomplishment in the writing of different forms and the interpretation of individual and collective experience in colonial and postcolonial India.
Paper 7: ENG-HC-2026 British Poetry and Drama: 14 th to 17 th centuries	This paper aims to familiarize the students with the two major forms in British literature from the 14 th to the 17 th centuries –poetry and drama, apart from acquainting them with the contexts that generated such literatures..
Paper 8: English II ENG-CC-2016	The aim of this paper is to provide the student an opportunity to respond to representations of issues in contemporary life and culture. This paper deals with poetry pieces written by Indian, British and American writers. This paper also has a grammar section
Paper 9: ENG-HG-2026 Modern Indian Literature	The Modern Indian literature comprise extensive writings in all genres in many languages. The different historical and cultural backgrounds of the various Indian languages and literatures add to the complexity of what is termed as Modern Indian languages and Literatures. The list of short stories and poems prescribed for this course give the student a taste of Indian writing from different regions of the country.
COURSES (SEMESTER –III)	COURSE OUTCOME
Paper 10: ENG-HC-3016 History of English Literature and Forms	This paper introduces students to the history of English Literature and the major literary forms. It adopts a chronological approach to the study of poetry, drama, fiction and non-fictional prose, showing the development of each form as it moves through the various periods of English literature and its expansion into global English writing.
Paper 11: ENG-HC-3026 American Literature	This paper seeks to acquaint students with the main currents of American Literature in its social and cultural contexts. The texts incorporated in the paper are a historical reflection of the growth of American society and of the way the literary imagination has grappled with such growth and change. A study of this paper, hence, should lead to an acquaintance with the American society in its evolutionary stages from the beginnings of modernism to the present as well as with exciting generic innovations and developments that have tried to keep pace with social changes.
Paper 12: Eng-HC-3036 British Poetry and Drama: 17 th and 18 th Centuries	This paper aims to familiarize the students with British literature in the 17 th and 18 th centuries, a time-period which sees the emergence and

	establishment of greatly diverse kinds of writings.
Paper 13: ENG-HG-3026 British Literature	This paper is designed to offer a representative sampling of the major literary traditions of British life and culture through a study of texts in different genres.
Paper 14: ENG-SE-3014 Creative Writing	The students in this paper will focus on three creative genres: fiction, non-fiction and poetry. The emphasis will be to build proficiency in readings and writings. The course encourages active class participation and lots of writings.
Courses	Course outcomes
SEMESTER IV Paper 14: ENG-HC-4016 British Literature: The 18 th Century	This paper aims to introduce students with British Literature in the 18 th century, an age in which reason and rationality was reflected in its literature including prose, poetry, fiction and non-fiction. The texts in the course provide a glimpse to the writings of the era.
Paper 15: ENG-HC-4026 British Romantic Literature	This paper acquaints the students to the Romantic imagination of the 18 th century poetry of Wordsworth, Keats, Blake, Shelley, Coleridge and Burns. This paper enables the students to have a better idea about nature and human relationships and the role of nature in inspiring poets to create poetry.
Paper 16: ENG-HC-4036 British Literature: The 19 th Century	This paper explores the literature of the 19 th century such as novels and poetry. The texts selected shall acquaint the students with the Victorian social issues of that era through the novels of Dickens, Jane Eyre and Austen whereas Rossetti's work exposes gender issues of the age.
Paper 17: ENG-HG-4016 Language, Literature and Culture	This paper acquaints the students to the relationship between language, literature and culture. To make known the usage of language in literature and in everyday communication. Students will be familiarized with the concepts of speech, dialect, diglossia, figures of speech, point of view, and rhetoric etc.
Paper 18: ENG-SE-4014 Translation: Principles and Practice	This Paper is designed to offer students basic skills in translation. It also aims at providing them practical training in translation through audio-visual medium such as plays, poem. The paper will also introduce the students to intralingual, interlingual and intersemiotic translation.
SEMESTER V Paper 19: ENG-HC-5016 British Literature: The 20 th Century	This paper introduces the students with the works of modernist writers rich with new forms of exploration in form, style, and narrative technique such as stream of consciousness.

Paper 20: ENG-HC-5026 Women's Writing	This paper explores the writings of women and their experiences in various genres- poetry, novels, short stories and autobiographical. It aims to seek student's attention towards women's role in political as well as social context.
Paper 21: ENG-HE-5036 Literature of the Indian Diaspora	This paper focuses on the literature of the Diaspora dealing with the themes of identity, alienation, exile, displacement and so on. The paper looks into the diasporic condition with particular reference to Indian diasporic writers and the effects of globalization in a post-colonial scenario.
Paper 22: ENG-HE-5056 Literary Criticism and Literary Theory	This paper familiarizes the students with literary theory such as Feminism, Deconstruction, Post-Colonialism and the literary interpretations of Wordsworth, Coleridge and so on. The students are acquainted with the ideas of identity, race, ethnicity, and gender in this paper.
SEMESTER VI Paper 23: ENG-HC-6016 Modern European Drama	This paper introduces the students to the innovative dramatic works of the modern period and highlighting the emergence of avant garde movements. It introduces ideas such as Existentialism, alienation in the medium of theatre.
Paper 24: ENG-HC-6026 Postcolonial Literatures	This paper offers insight into the postcolonial literature across the world by focusing on the regional, cultural differences, post colonial experiences on the colonized.
Paper 25: ENG-HE-6036 Partition Literature	This paper familiarizes the student's with the literature of partition through the writings of Amitav Ghosh, Sa'adat Hasan Manto depicting the psychological effects of partition.
Paper 26: ENG-HE-6046 Travel Writing	The paper aims at showcasing the genre of travel narrative of Ibn Batuta, Al Biruni, Mark Twain, Che Guevara, Vikram Seth and Elisabeth Bumiller to create interest amongst the students about travel narrative and literature.

DEPARTMENT OF GEOGRAPHY

Courses	Course Outcomes
Course Name: Geomorphology Paper Code: GGY-HC-1016	<ul style="list-style-type: none"> The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.

	<ul style="list-style-type: none"> • This paper will provide the basic knowledge about the origin and development of landforms under different environmental conditions. • The students will come to know about the meaning and scope of geomorphology as a major branch of physical Geography.
<p>Course Name: Cartographic Technique Paper Code: GGY-HC-1026</p>	<ul style="list-style-type: none"> • The students will learn about the importance of various cartographic techniques in geographical studies. • General understanding of map type, map scale and map content. • The students will be able to prepare a map and diagrams.
<p>Course Name: Physical Geography Paper Code: GGY-HG-1036 & Paper Code: GGY-RC-1016</p>	<ul style="list-style-type: none"> • The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes. • The students will come to know about the meaning and scope of geomorphology as a major branch of physical Geography. • After gaining knowledge based on the contents embodied in this paper, the students will be able to realize the importance of geomorphological knowledge as applied in various developmental activities executed on the land and over the earth's surface.
<p>Course Name: Human Geography Paper Code: GGY-HC-2016</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing ideas on human-environment issues that geographers usually address in the anthropocene. • The students will be able to know about the origin, growth and morphological characteristics of rural and urban settlements. • This paper will be useful for understanding the physical characteristics, distribution, origin and diffusion of major racial groups in the world.
<p>Course Name: Climatology and Biogeography Paper Code: GGY-HC-2026</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing ideas on climate related aspects of Geographical analyses. • The paper will help provide theoretical insights and perspectives to students if they wish to pursue a research programme in future. • Students will develop a basic understanding of the introductory concepts in biogeography. • This paper will help the students to know the distinction between Ecology and Ecosystem.
<p>Course Name: Human Geography Paper Code: GGY-HG-2036 & Paper Code: GGY-RC-2016</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing ideas on human-environment issues that geographers usually address in the anthropocene. • The students will be able to know about the origin, growth and characteristics of rural and urban settlements; patterns of urbanization of India and NE India.
<p>Course Name: Economic</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing

<p>Geography Paper Code: GGY-HC-3016</p>	<p>ideas on how geographical aspects organise economic space and will offer perspectives to students if they wish to pursue a research programme.</p> <ul style="list-style-type: none"> • The students will learn about the field of economic geography as well as the different approaches of economic geography. • This paper will help the students to know about the economic activity.
<p>Course Name: Geography of India with special reference to NE India Paper Code: GGY-HC-3026</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing understanding on Indian geography and its various dimensions. • It will also be useful for students preparing for various competitive examinations including civil services.
<p>Course Name: Quantitative Methods in Geography Paper Code: GGY-HC-3036</p>	<ul style="list-style-type: none"> • Thorough understanding of the statistical methods and techniques used in geographical studies. • Understanding of tabulation, analysis and interpretation of geographical data.
<p>Course Name: Thematic Cartography (Skill Enhancement Paper) Paper Code: GGY-SE-3054</p>	<ul style="list-style-type: none"> • Understanding the importance of various techniques of preparation of maps in geographical study. • General understanding of preparation of different types of plan and maps. • An acquaintance of different cartographic techniques for representation of various facets of earth's surface.
<p>Course Name: Economic Geography Paper Code: GGY-HG-3066 & Paper Code: GGY-RC-3016</p>	<ul style="list-style-type: none"> • This paper will be useful for the students in developing understanding on how geographical factors organize economic space, and to acquire knowledge about spatial patterns of various economic activities on the earth.
<p>Course Name: Environmental Geography and Disaster Management Paper Code: GGY-HC-4016</p>	<ul style="list-style-type: none"> • This paper will be useful for students in developing ideas on environmental issues including disasters that geographers usually address. • This paper will be useful for students preparing for different competitive exams including the civil services. • This paper will help the students to acquire knowledge on sustainable management of environment and development.
<p>Course Name: Population and Settlement Geography Paper Code: GGY-HC-4026</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing ideas about spatio-temporal changes in the characteristics of population and settlement and the factors associated with them. • The students will be acquiring good knowledge regarding Malthus theory of population growth and Demographic transition model. • The students will learn the concept of population growth, distribution and causes and consequences of migration.

	<ul style="list-style-type: none"> The paper will be helpful for students in developing the ideas about the origin, growth, morphology and hierarchy of settlements.
<p>Course Name: Remote Sensing, GIS and GPS Paper Code: GGY-HC-4036</p>	<ul style="list-style-type: none"> The paper remains useful for students in developing skills in spatial data analysis if they wish to pursue a research programme. The students will learn the application of Remote Sensing, GIS and GPS in geographical studies. The paper will be useful for students preparing for different competitive exams including the civil services.
<p>Course Name: Surveying and Techniques (Skill Enhancement paper) Paper Code: GGY-SE-4054</p>	<ul style="list-style-type: none"> Understanding the importance of various surveying techniques in geographical study. General understanding of preparation procedures of different types of plan and map. An acquaintance of different surveying techniques for representation of various spatial objects/ phenomena.
<p>Course Name: Geography of India with Reference NE India Paper Code: GGY-HG-4066 & Paper Code: GGY-RC-4016</p>	<ul style="list-style-type: none"> The paper will be useful for students in developing understanding on Indian geography and its various dimensions. It will also be useful for students preparing for various competitive examinations including civil services.
<p>Course Name: Social and Political Geography Paper Code: GGY-HC-5016</p>	<ul style="list-style-type: none"> This course will help equip the students to comprehend various social and political aspects of phenomena and their interface within the realm of geography. The students will acquire good knowledge from society and environment, urbanization, westernization and social change. This paper will help the students in developing ideas about the state, nation and nation-state building.
<p>Course Name: Field Techniques in Geography Paper Code: GGY-HC-5026</p>	<ul style="list-style-type: none"> This course will help students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed for doing quality research. Students perceive fieldwork to be beneficial to their learning, because through it they experience 'geographical reality', and have deeper understanding of the subject. The students will have a chance to interact with respondents and collect data through Questionnaire directly from the field. This course will develop understanding about designing and writing a field report.
<p>Course Name: Regional Development and Planning Paper Code: GGY-HE-5046</p>	<ul style="list-style-type: none"> The paper will be useful for students in developing ideas on disparities within and between countries and their fallout. The paper will help provide theoretical insights and

	<p>perspectives to students, if they wish to pursue a higher studies or research in future.</p> <ul style="list-style-type: none"> • The paper will be very useful for students preparing for various competitive examinations including civil services.
<p>Course Name: Agricultural Geography Paper Code: GGY-HE-5066</p>	<ul style="list-style-type: none"> • This paper will be useful for students in developing ideas about agricultural practices and their distribution and characteristics. • This paper will also be useful to the students in understanding the world agricultural systems. • This paper will help develop understanding of location of agricultural activities and associated contemporary problems and challenges.
<p>Course Name: Environmental Geography and Disaster Management Paper Code: GGY-RE-5016</p>	<ul style="list-style-type: none"> • The paper will be useful for students in developing ideas on environmental issues including disasters that geographers usually address. • The paper will also be useful for students preparing for different competitive exams including the civil services.
	<ul style="list-style-type: none"> • The students will learn on sustainable management of environment and development.
<p>Course Name: Geographical Thought Paper Code: GGY-HC-6016</p>	<ul style="list-style-type: none"> • This course develops a comprehensive understanding of the discipline; • This course helps the students to apply the historic and contemporary perspective to explain and approach the real world geographic problems.
<p>Course Name: Research Methods in Geography and Project Work Paper Code: GGY-HC-6026</p>	<ul style="list-style-type: none"> • This course will help the students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed while doing quality research.
<p>Course Name: Hydrology Paper Code: GGY-HE-6046</p>	<ul style="list-style-type: none"> • After completion of this course the students will be able to speak on the basic concepts of hydrology and its application in river basin studies. Students will also have a practical orientation of the concepts both in laboratory and in the field.
<p>Course Name: Geography of Resources and Development Paper Code: GGY-HE-6066</p>	<ul style="list-style-type: none"> • This paper will be useful to students in developing ideas on different aspects of resources, and the linkages with development issues that geographers usually address. • This paper will also be useful for students preparing for different competitive examinations including the civil services. • The students will learn on the concept of resources, different types of resources and utility and conservational issues of it.
<p>Course Name: Social and Political Geography Paper Code: GGY-RE-6016</p>	<ul style="list-style-type: none"> • This course will help equip the students to comprehend various social and political aspects of phenomena and their interface within the realm of geography. • The paper will be very useful for students preparing for various competitive examinations including civil services. • This paper will help the students in developing

	ideas about the state, nation and nation-state building.
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Department of Hindi

Courses	Course Outcomes
Paper Code – 1016 Hindi Sahitya ka Itihas [Ritikaal Tak]:-	To acquire knowledge of ancient and medieval style, context and language of the writer. Also students will obtain history of social, economical, political, and religious condition of that period.
Paper code :- 1026 Hindi sahitya ka Itihas [Adhunik Kaal]:-	Study of this paper helps students to acquire the knowledge of society and literary aspects of that period.
Paper Code :- 2016 Adikalin evam Madhyakalin kavita:-	The paper acquaints students with the context of Indian literary tradition. Student is expected to read and relate the circumstances that Influenced shaped and contributed to the process of literary production from the ancient to the medieval period.
Paper code :-2026 Adhunik Hindi Kavita[chayavaad tak]	Students can learn the trend of poetry that emerged during the Indian independence movement.
Paper code :- 3016 Chayavadottar Hindi kavita	This paper acquaints students with the context of Indian poetry during Indian independence and post Independence period.
Paper code;-3026 Bharatiya kavyasastra	This paper can provide the knowledge of style to the students about the Indian poetics that embraces all poetic and include concepts like Alankars , Dhvani , Riti , Vakrotti , Auchitya etc.
Paper code :-3036 Paschaty kavyasastra :-	This paper helps the students to learn the western theory and western poetics as well as the different theories given by the deferent ancient and modern thinkers such as Plato , Aristotle etc.
Paper code :-4016 Bhasa vigyan ,Hindi Bhasa evam Devnagari lipi	This paper has been divided into three sections seeks to introduce students to linguistics as the scientific study of language and do familiarise them with its different trends as well as key concept related to the Hindi Bhasa and Devnagari lipi .

Paper code :- 4026 Hindi kathasahitya	Students are introduced to the 20 th century Hindi prose Hindi novel and students are expected to acquaint themselves with the Indian Historical and cultural situation that prepared the literary ground after the Indian independence.
Paper code:-4036 Hindi natak evam ekanki	The paper introduce students to the modern period of Hindi Natak (Drama) and Ekanki(one act plays).students can acquire the knowledge about the trend in the Indian Drama and one act plays .
Paper code :-5016 Hindi Nibandha evam anya Gadys vidyayen	This paper relates to the modern period of Hindi Essays. Students are expected to acquaint themselves with different style of Hindi Essays.
Paper code :-5026 Prayojanmulak Hindi:-	To know the basic principles of official Hindi language. Students practicing different formats of official letter writing style in Hindi. Students are expected to acquire knowledge about news reporting in different media.
Paper code:-6016 Hindi ki sahityik patrakarita	This paper acquaints students with the modern trend of Hindi Patrakarita.
Paper code:-6026 Hindi pariyojana karya [Hindi project work]	This paper is a project work paper students are expected to prepare a hand written project work of any one of the topic related to Hindi literature i.e. mentioned in the syllabi .This paper provides knowledge about how to write a project work that may be helpful in students' higher studies.
Paper code:- 5036 LOK Sahitya	Folk studies help to develop the knowledge of the root of our culture and imaginary world also enhance the thinking power of creative writing and lyrics composition.
Paper code :-5046 Hindi ki Rastriya Kavyadhara	This paper aims to familiarise students with the Indian poetry during the independence the nationalism and modernity.
Paper code :-6036 Chayabaad	This paper aims to familiarise students with the poetry of post Independent era that is called chayabaad .
Paper code:-6046 Premchand	This paper aims to familiarise students with the literary work of premchand.

Paper code :-1034 Hindi vyakaran Evam Sampreshan	This paper acquaints students with the different aspects of Hindi grammar and sampreshan
Paper code :-2034 Hindi Bhasha Evam Sampreshan	This paper deals with me different aspects of Hindi Bhasha and sampreshan .
Paper code:-3044 Sahitya and Hindi cinema	This paper invites the linkage between the cinema and society as well as provides the knowledge of relation between literature and cinema.
Paper code:-4044 Anuvad : Sidhant Evam Pravidhi	To know the basic principal of translation. students practicing translation form Hindi to other language or from other languages to Hindi .They can became translators in various sector of profession
Paper code:-1046 Kala aur Sahitya	This paper acquaints students with the relationship of art and literature.
Paper code:-2046 Sangit evam sahitya	This paper aims to tell about the link between music and literature. Interlinking music and literature is the basic criteria of this paper.
Paper code:-3056 Adhunik Asamiya kahani.	This paper acquaints students with the story telling style of Assamese language. Student will be able to compare one literary from with the other.
Paper code :-4056 Sarjanatmak Lekhan ke vividh roop .	Student can develop their knowledge, understanding skill, feel the essence of creative writing and develop their own writing skill.
Paper code:-1046 Kala aur Sahitya	This paper acquaints students with the relationship of art and literature.

Department of History (Honours)

Semester	Paper Code/Title	Course Outcome
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Semester-I	HIS-HC-1016: History of India-I (Earliest time to 300 BC)	After the completion of this paper, the students will be able to explore and effectively use historical tools in reconstructing the remote past of Ancient Indian pre and proto history. The course will also analyse the various stages of evaluation of human culture and the belief systems in the proto-history period.
Semester-I	HIS-HC-1026: Social Formation and Cultural Patterns of the Ancient World.	After the completion of this paper, the students will be able to explain the processes and stages of evaluation of the variety of cultural pattern throughout antiq
Semester-II	HIS-HC-2016: History of India-II (BCE. 300-750)	On successful completion of this course the students will be able to explain the economic and socio-cultural connections, transitions and stratifications during the ruling hours, empires and the politico-administrative nuances of early Indian History from 300 BCE to 300 CE.
Semester-II	HIS-HC-2026: Social Formation and Cultural Patterns of the Mediaeval World.	After the completion of this course, the students will be able to analyse and explain the historical socio-political, administrative and economic patterns of the Mediaeval World. They will be able to describe the emergence, growth and decline of various politico-administrative and economic and economic patterns and resultant changes therein.
Semester-III	HIS-HC-3016: History of India-III (C. 750-1206)	The completion of this paper will enable the students to relate and explain the developments in India in its political and economic fields and its relation to the social and cultural patterns therein in the historical time period between c. 750 to 1206. They will be able to analyse India's interaction with another wave of foreign influence and the changes brought in its wake in the period.
Semester-III	HIS-HC-3026: Rise of the Modern West-I	On completion of this course, the students will be able to explain the major trends and developments in the Western world between the 14th. to 16th. Century CE. They will be able to explore and analyse the significant historical shifts and events and the resultant effects on the the civilization of Europe in the period.
Semester-III	HIS-HC-3036: History of India-IV (C. 1206-2550)	After completion of this course students will be able to explain the political and administrative history of Mediaeval period of India from 1206 to 1550 AD. They will also be able to analyse the sources of history, regional variations, social, cultural and economic set up of the period.

Semester-IV	HIS-HC-4016: Rise of the Modern West-II	After the completion of this course, the students will be able to explain the political and intellectual currents in Europe in the Modern Age. They will also be able to relate the circumstances and casual factors of the intellectual and revolutionary currents of both Europe and America at the beginning of the Modern Age.
Semester-IV	HIS-HC-4026: History of India-V (C. 1550-1605)	At the completion of this course, the students will be able to analyse the circumstances and historical shifts and foundations of a variety of administrative and political setup in India between c.1550-1605. They will also be able to describe the inter relationships between the economy, cultural and religious practices of the period.
Semester-IV	HIS-HC-4037: History of India-VI (C. 1605-1750)	After the completion of this course, the students will be able to explain and reconstruct the linkages of the history of India under the Mughal Rule. As a whole, this course will enable them to relate to socio-economic and religious orientation of the people of Mediaeval period in India.
Semester-V	HIS-HC-5016: History of Modern Europe-I ((C. 1780-1939)	After the completion of this course the students will be able to evaluate the historical evaluation and political developments that occurred in Europe in the period between 1780-1939. They will also be able to criticality analyse the evaluation of social classes, nation states, evaluation of capitalism and nationalist sentiment in Europe. They will also be able to relate to the variety of causes that dragged the world into devastating wars in the intervening period.
Semester-V	HIS-HC-5026: History of India-VII (C. 1780-1857)	After the completion of this course, the students will be able to relate the circumstances leading to the consolidation of colonial rule over India and their consequences. They will also be able to explain the orientation of indigenous population and the masses towards resistance to the colonial exploitation. The course will also enable the students to analyse popular uprising among the tribal, peasant and common people against the British policies.
Semester-VI	HIS-HC-6016: History of India-VIII (C. 1857-1950)	At the completion of this course, the learners will be able to analyse the course of British Colonial exploitation, the social mobilization during the period between c.1857-1950 and also the techniques of Indian resistance to British policies. It will also be enable the students to explain the circumstances leading to de-colonization and also the initial period of nation building in India.

Semester-VI	HIS-HC-6026: History of Modern Europe-II (C. 1780-1939)	After the completion of this course, the students will be able to analyse the historical developments in Europe between c.1780 to 1939. As the course structure of this paper focuses on the democratic and socialist foundations modern Europe. The students will also be able to situate the historical development of working class movements, socialist upsurge and the economic forces of the two wars and the other ideological shifts of Europe in the period.
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History (Regular)

Semester	Paper Code/Title	Course Outcome
Semester-I	HIS-RC-1016: History of India from Earliest times up to c.1206	Upon completion of this course, students will be able to explain the emergence of state system in North India, development of imperial state structure and state formation in South India in the early period. They will be able to understand that changes and transformation in polity, economy and society in early Indian and the linkage developed through contacts with the outside world.
Semester-II	HIS-RC-2016: Early Assam upto c.1228	This paper will give a general outline of the history of Assam from the earliest times to the advent of the Ahoms in the 13th. Century. Upon completion, Students will be acquainted with major stages of developments in the political, social and cultural history of Assam during the early times.
Semester-III	HIS-RC-3016: History of India (c. 1206-1757)	Upon completion of this course, Students will be able to analyse the political and social developments in India between 1206-1757. Students will be able to explain the formation of different States during this period along with their administrative apparatuses, and the society, economy and culture of India in the 13th. to mid 18th. Century period.
Semester-III	HIS-SE-3014: Historical Tourism in North East India	After completing the course, the students will be to explain Tourism in North India with special reference to the historical monuments, culture and ecological elements and places of the North East India country as tourist and heritage site of the nation. They will be able to relate the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth.

Semester-IV	HIS-RC-4016: History of Assam (c. 1228-1826)	On completion of this paper, Students will be able to identify major stages of developments in the political, social and cultural history of Assam during the medieval times. This paper will also enable the students to explain the history of Assam from the 13th. Century to the occupation of Assam by the English East India Company in the first quarter of the 29th. Century.
Semester-V	HIS-RE-5016: History of India (c. 1757-1947)	Upon completion of this course, Students will be able to understand the major factors that led to the establishment and consolidation of British rule in India. They will also be able to identify the process of growth of residence against British colonial rule and the eventual growth of Indian nationalist movement, which ultimately led to the end of the British rule in the Country.
Semester-V	HIS-RG-5016: History of Europe (c. 1648-1870)	After completing the course the students will be able to explain the emergence of the State system in Europe and the rise of modernity. They will also be able to analyse the revolutionary upheavals of Europe that finally shaped the world.
Semester-VI	HIS-RG-6016: History of Europe (c. 1870-1939)	After completing the course the students will be able to explain the major political developments in Europe from 1870 to 1939. The students will be able to delineate how the rise of two unified nations of Germany and Italy gave rise of intense imperialist contest the world over. The course will also enable the students to analyse the causes and consequences of World War-I and developments leading to World War-II.
Semester-VI	HIS-RE-6016: History of Assam (c. 1826-1947)	After completion of this course, the students will be able to describe the period of British rule in Assam after its annexation by the imperialist forces. They will also be able to situate the development of nationalism in Assam and its rule in India's freedom struggle. The course will enable the students to analyse the main currents of political and socio-economic developments in Assam and during the colonial period.

Department of Mathematics

Course	Outcomes
Calculus (MAT-HC-1016) (MAT-HG-1016/MAT-RC-1016) (MAT-HC-4016)	To inculcate knowledge on the ability to find the effects of changing condition on a system.
Differential equation (MAT-HC-2026) (MAT-HG-3016/MAT-RC-3016)	To inculcate knowledge on solving of first and second order differential equations and basic information algebraic structure using laplace.
Analytical geometry (MAT-HC-3036) (MAT-HG-1016)	To inculcate knowledge on solve problems in analytical geometry and able to find appropriate solutions for given problems.
Combinatorics and graph theory (MAT-SE-3024)	Able to learn about the counting principles, permutations and combinations, pigeonhole

	principle, understand the basic of graph theory and learn about social networks.
Numerical methods (MAT-HC-4026)	To inculcate knowledge on algebraic equations solved by numerical methods.this will enable the students to learn some numerical methods to find the zeroes of nonlinear functions of a single variable and solution of a system of linear equations to know about methods to solve systems linear equation, interpolation techniques to compute the values for a tabulated functions at points not in the table, applications of numerical differentiation and integration to convert differential equation into difference equation for numerical solution.
R programming (MAT-SE-3014)	Able to become familiar with R syntax and to use R as a calculator , understand the concepts of objects, vectors and data types, know about summary commands and summary table in R, visualize distribution of data in R and learn about normality test, plot various graphs and chart usingsR
Probability and statistics (MAT-HE-5036)	This course will enable the students to make the students familiar with the basics statistical concepts and tools which are needed to study situations involving uncertainly or randomness to render the students to several exemplar and exercise that blend their everyday experience with their scientific interests.
Programing in C (MAT-HE-5066)	On successful completion of this subject the students have the programming ability in C language.
Partial differential equation (MAT-HC-6026)	Students will enable to formulate, classify and transform first order PDE into canonical form, learn about methods of charactersticsand separation of variable to solve first order PDEs, classify and solve second order PDEs learn about Cauchy problems for second order PDE and homogeneous as well as non homogeneous wave equation apply the method of separation of variables for solving second order PDEs.
Rigid dynamics (MAT-HE-6016)	Able to learn introduce moments and products of inertia theorem of six constant, D Alembert principle, motion of a body in two dimension and Lagranges equation.
Real analysis(MAT-HC-2016) (MAT-HG-4016/MAT-RC-4016) (MAT-HC-3016) (MAT-HC-5016)	To inculcate knowledge om real numbers and their properties and able to understand the concept of sequence of real numbers, infinite series and their related results.

Modern algebra (MAT-HC-3026) (MAT-HC-4036) (MAT-HE-6056)	To inculcate knowledge on various algebraic structure and their properties.
Complex analysis (MAT-HC-6016)	To inculcate knowledge on complex numbers and their properties to introduce the basic ideas of analysis for complex functions with visualization through relevant practicals
Number theory (MAT-HE-5016/MAT-RE-5016)	The course will enable the students to learn about some fascinating discoveries related to the properties of prime number and some of the open problems in number theory, viz, know about number theoretic functions and modular arithmetic, solve linear , quadratic and system of linear congruence equations.

DEPARTMENT OF PHILOSOPHY

Courses	Courses Outcomes
PHI-HC-1016 Indian Philosophy (The Vedas, Upanishads, Bhagavad-Gita ,Different schools of Indian Philosophy and their teachings)	To get an ability to search for the truth through thinking and speculation, about life and reality.
PHI-HC-1026 Logic (propositions and Arguments, Truth and Validity, Deduction and induction)	Creates an ability to evaluate arguments and reasoning. Helps the Critical thinking as the process of evaluation to separate truth from falsehood, and reasonable from unreasonable belief itself.
PHI-HC-2036 Greek Philosophy (from Thales to Aristotle)	To introduce with the philosophies of the ancient Greece that influenced much of Western culture.
PHI-HC-2046 Logic (Symbolic logic)	Gives the basic concept of Symbolic logic of Mathematical logic
PHI-HC-3056 Western Philosophy (From Philosophy of Descartes to Hegel)	It enables the students to know about thinking of the Western philosophers and their system buildings.

PHI-HC-3076 Ethics (General concepts of Ethics)	To introduce with the general concepts of Ethics.
PHI-HC-4086 Contemporary Indian philosophy (Philosophies of Aurobindo, Radhakrishnan, Gandhi, and Vivekananda)	Enables the students to know about the philosophical thinking of the great Indian thinkers about the human life and reality.
PHI-HC-4096 Philosophy of Religion (Proofs for the existence of god, faith and revelation, Freedom of will, Immortality of the soul, Religious language and symbolism)	After the completion of this paper student will be able to know how we can see the religious viewpoints scientifically.
PHI-HC-4106 Political and Social philosophy (Rights and Duties, Equality and liberty, Political ideologies, Forms of government, corruption, violence, genocide, gender discrimination, Women Empowerment, caste discrimination, female foeticide, Gandhi and Ambedkar)	To know about social and political aspects of our society.
PHI-HC-5116 Analytic Philosophy (Philosophies of Moore, Refutation of Idealism, Russell's Logical atomism, Wittgenstein's philosophy of language)	To give clarity and precision of moral concepts, often making use of formal logic, conceptual analysis and some degree, mathematics and the natural sciences.
PHI-HC-5126 Phenomenology and Existentialism (Kierkegaard, Sartre, Heidegger, Husserl)	To introduce with the phenomenological standpoint to the reality, and different interpretations of human life from the standpoint of our own existence in the world.
PHI-HC-6136 Philosophy of Mind (Psychology and philosophy of mind, problem of Cartesian dualism, Parallelism, Occasionalism, Epiphenomenalism, behaviorism, personal identity)	Enables the students to think critically about human mind.
PHI-HC-6146 Meta Ethics (ethics and meta ethics, G.E. Moore, Ayer and Stevenson, R.M. Hare)	Makes students to understand about the nature of ethical properties, statements, attitudes, and judgments.
PHI-HC-5016 Philosophy of Upanishads (Relations to Vedas, general social conditions, Diversity of theories, Ultimate reality, Individual destiny)	To give the Upanisadic interpretations about the general social conditions, Ultimate reality and Individual.
PHI-HC-5026 Philosophy of the Gita (Law of Karma, Ksetra-Ksetranja, pususa-prakriti, Uttama Purusa and Ultimate Reality, Conception of Yoga, Svabhava, svakarma, Svadharma, Niskamakarmayoga, lokasanagraha,	To introduce the basic ideas and theories of The Gita.

liberation)	
PHI-HC-6066 Applied Ethics Introduction, Environmental Ethics, Cyber Ethics, bio-medical ethics)	To introduce how can we apply the moral considerations in our practical world.
PHI-RC-1016 General Philosophy (Introduction, Substance, causality, Space and Time, Problem of knowledge, Relation of god and the world, proofs for the existence of god, Theories of truth),	To know what the primary sources of human knowledge are, how can we testify the truth of propositions or statements, about the existence of God and its relation with the world.

DEPARTMENT OF PHYSICS

Course Name and code	Outcome
PAPER CODE: PHY-HC-1016 PAPER NAME : Mathematical Physics I	Successful students should be able to understand vector and its applications in various fields, differential equations and its applications, different coordinate systems, concept of probability and error.
PAPER CODE : PHY-HC-1026 PAPER NAME :Mechanics	On successful completion of the course students should be able understand Inertial and non inertial reference frames, Newtonian motion, Galilean transformations, projectile motion, work and energy, Elastic and inelastic collisions, motion under central force, simple harmonic oscillations, special theory of relativity.
PAPER CODE :PHY-HG-1016 (PHY-RC-1016) PAPER NAME :Mechanics	Upon completion of this course, students are expected to understand the role of vectors and coordinate systems in Physics, solve Ordinary Differential Equations, laws of motion and their application to various dynamical situations, Inertial reference frames their transformations, concept of conservation of energy, momentum, angular momentum and apply them to basic problems, phenomenon of simple harmonic motion, motion under central force, concept of time dilation, Length contraction using special theory of relativity. In the laboratory course, after acquiring knowledge of how to handle measuring instruments (like screw gauge, Vernier calipers, travelling microscope) student shall embark on verifying various principles and associated measurable parameters.
PAPER CODE: PHY-HC-2016 PAPER NAME : Electricity & Magnetism	After successful completion of this course, students will be able to Understand electric and magnetic fields in matter, Dielectric properties of matter magnetic properties of matter, electromagnetic induction, applications of Kirchhoff's law in different circuits, applications of network theorem in circuits
PAPER CODE: PHY-HC-2026	After successful completion of this course,

<p>PAPER NAME: Waves & Optics</p>	<p>students will be able to Understand superposition of harmonic oscillations, different types of wave motions, superposition of harmonic waves, interference and interferometer, diffraction, holography.</p>
<p>PAPER CODE:PHY-HG-2016 (PHY-RC-2016) PAPER NAME: Electricity& Magnetism</p>	<p>Upon completion of this course, students are expected to apply Gauss's law of electrostatics to solve a variety of problems, calculate the magnetic forces that act on moving charges and the magnetic fields due to currents, have brief idea of magnetic materials, understand the concepts of induction, and apply them to solve variety of problems. In the Lab course, students will be able to measure resistance (high and low), Voltage, Current, self and mutual inductance, capacitor, strength of magnetic field and its variation, study different circuits RC, LCR etc</p>
<p>PAPER CODE:PHY-HC-3016 PAPER NAME: Mathematical Physics II</p>	<p>After successful completion of the course, students will be able to solve differential equation using power series solution method, solve differential equation using separation of variables method, special integrals, different properties of matrix, Fourier series.</p>
<p>PAPER CODE:PHY-HC-3026 PAPER NAME: Thermal Physics</p>	<p>Upon successful completion, students will have the knowledge and skills to identify and describe the statistical nature of concepts and laws in thermodynamics, in particular: entropy, temperature, Thermodynamics potentials, Free energies, Maxwell's relations in thermodynamics, behaviour of real gases.</p>
<p>PAPER CODE:PHY-HC-3036 PAPER NAME: Digital Systems & Applications</p>	<p>After successful completion of the course student will be able to understand the working principle of CRO, develop a digital logic and apply it to solve real life problems, Analyze, design and implement combinational logic circuits, Classify different semiconductor memories, Analyze, design and implement sequential logic circuits, Analyze digital system design using PLD, Simulate and implement combinational and sequential circuits.</p>

<p>PAPER CODE:PHY-HG-3016 (PHY-RC-3016) PAPER NAME: Physics & Statistical Mechanics</p>	<p>Upon completion of this course, students are expected learn the basic concepts of thermodynamics, the first and the second law of thermodynamics, the concept of entropy and the associated theorems, the thermodynamic potentials and their physical interpretations, Maxwell's thermodynamic relations, fundamentals of the kinetic theory of gases, Maxwell-Boltzman distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion and Brownian motion, black body radiations, Stefan- Boltzmann's law, Rayleigh-Jean's law and Planck's law and their significances, quantum statistical distributions, viz., the BoseEinstein statistics and the Fermi-Dirac statistics. In the laboratory course, the students will be able to Measure of Planck's constant using black body radiation, determine Stefan's Constant, coefficient of thermal conductivity of a bad conductor and a good conductor, determine the temperature coefficient of resistance, study variation of thermoemf across two junctions of a thermocouple with temperature etc.</p>
<p>PAPER CODE:PHY-SE-3014 PAPER NAME: Physics Workshop Skills</p>	<p>The aim of this course is to enable the students to familiar and experience with various mechanical and electrical tools through hands-on mode</p>
<p>PAPER CODE:PHY-SE-3024 PAPER NAME:COMPUTATIONAL PHYSICS SKILLS</p>	<p>The aim of this course is not just to teach computer programming and numerical analysis but to emphasize its role in solving problems in Physics.</p> <ul style="list-style-type: none"> • Highlights the use of computational methods to solve physical problems • Use of computer language as a tool in solving physics problems (applications) <p>Course will consist of hands on training on the</p>

	Problem solving on Computers.
PAPER CODE:PHY-SE-3044 PAPER NAME: Digital Photography & Editing	On successful completion of the course students will be able to indentify cameras according to formats and view finder systems, identify types of lenses and state what type of lenses to be used for different purposes, apply settings of shutter speed, control depth of field via aperture settings, apply suitable focal length, Use the light metering mechanism of the camera to take photographs
PAPER CODE:PHY-SE-3054 PAPER NAME:VIDEO EDITING FOR SOCIAL MEDIA	On successful completion of the course students will be able to learn to Edit impactful video content which appeals to target audience, Add or Edit Music, Soundtrack or Audio to your videos, Learn to customize your videos by using Text (fonts), Learn to use transitions and effects to create impactful videos
PAPER CODE:PHY-SE-3084 PAPER NAME: TECHNICAL DRAWING	After successfully completing the course students will be able to draw free hand sketches of various kinds of objects, apply different dimensioning methods on drawing of objects, different types of scales and their utilization in reading and reproducing drawings of objects and maps, Draw 2 - dimensional view of different objects viewed from different angles, Generate isometric (3D) drawing from different 2D (orthographic) views/sketches, use basic commands of Auto CAD.
PAPER CODE:PHY-HC-4016 PAPER NAME: Mathematical Physics III	Course Outcome: On successful completion of the course students will able to solve complex integrals using residue theorem, apply Fourier and Laplace transforms in solving differential equations, understand properties of Tensor like Transformation of coordinates, contravariant and co-variant tensors, indices rules for combining tensors.
PAPER CODE:PHY-HC-4026 PAPER NAME: Elements of Modern Physics	On completion of the course students will be able to understand modern development in Physics, Starting from Planck's law, it development of the idea of probability interpretation and the formulation of Schrodinger equation. Students will also get preliminary idea of structure of nucleus,

	radioactivity Fission and Fusion and Laser
PAPER CODE:PHY-HC-4036 PAPER NAME: Analog Systems & Applications	On successful completion of the course students will be able to understand about the physics of semiconductor p-n junction and devices such as rectifier diodes, zener diode, photodiode etc. and bipolar junction transistors, transistor biasing and stabilization circuits, the concept of feedback in amplifiers and the oscillator circuits, students will also have an understanding of operational amplifiers and their applications
PAPER CODE:PHY-HG-4016 (PHY-RC-4016) PAPER NAME: Waves& Optics	Upon completion of this course, students are expected to understand Simple harmonic oscillation and superposition principle, importance of classical wave equation in transverse and longitudinal waves and solving a range of physical systems on its basis, concept of normal modes in transverse and longitudinal waves: their frequencies and configurations, interference as superposition of waves from coherent sources derived from same parent source, Demonstrate understanding of Interference and diffraction experiments, Polarization. In the laboratory course, student will gain hands-on experience of using various optical instruments and making finer measurements of wavelength of light using Newton Rings experiment, Fresnel Biprism etc. Resolving power of optical equipment, the motion of coupled oscillators, study of Lissajous figures and behaviour of transverse, longitudinal waves.
PAPERCODE:PHY-SE-4014 PAPER NAME: BASIC INSTRUMENTATION SKILLS	This course is to get exposure with various aspects of instruments and their usage through hands-on mode. Experiments listed below are to be done in continuation of the topics.
PAPER CODE:PHY-SE-4024 PAPER NAME: Research & Technical Writing	On successful completion of the course students will be able to identify and write different parts of technical reports, write article, thesis, and presentation in latex, create chart in Microsoft excel, use different format

	of chart based on need, plot data from different sources using Origin plot.
PAPER CODE:PHY-SE-4034 PAPER NAME: Domestic and Industrial Electrical Wiring	After successfully completion of the course students will be able to recognize various electrical devices and their symbols, Recognize various electrical devices placed on the panels/distribution boards and to design the panels, Read schematic and wiring diagrams of electrical devices, Read and interpret electrical installation plan, Practice and execute any type of wiring , Estimate and determine the cost of wiring installation
PAPER CODE: PHY-SE-4044 PAPER NAME: Photoshop	On successful completion of the course students will be able to work with the tools in Adobe Photoshop CC, crop image in Adobe Photoshop CC, to resize an image for print and digital media in Adobe Photoshop CC, apply Photoshop filters in print and digital media, apply filters to sharpen the images, different types of brushes used for digital painting.
PAPER CODE:PHY-SE-4074 PAPER NAME: RENEWABLE ENERGY AND ENERGY HARVESTING	The aim of this course is not just to impart theoretical knowledge to the students but to provide them with exposure and hands-on learning wherever possible
PAPER CODE:PHY-SE-4084 PAPER NAME: Introduction to CorelDraw	On successful completion of the course students will be able to work with layers and symbols in CorelDRAW, Apply fills and outlines to illustrations in CorelDRAW, Use, edit, and create artistic and paragraph text in CorelDRAW, Create boundaries to objects and copy and clone the effect of one object to another in CorelDRAW, Import and export projects, Print objects/documents created on CorelDRAW.
PAPER CODE:PHY-HC-5016 PAPER NAME:Quantum Mechanics & Applications	On successful completion of the course students will be able to understand the principles in quantum mechanics, such as the Schrödinger equation, the wave function, the uncertainty principle, stationary and non-stationary states, time evolution of solutions, as well as the relation between quantum

	mechanics and linear algebra. Students will be able to solve the Schrödinger equation for hydrogen atom. Students will have the concepts of angular momentum and spin, as well as the rules for quantization and addition of these, spin-orbit coupling and Zeeman Effect
PAPER CODE: PHY-HC-5026 PAPER NAME: Solid State Physics	On successful completion of the course students should be able to explain the main features of crystal lattices and phonons, understand the elementary lattice dynamics and its influence on the properties of materials, describe the main features of the physics of electrons in solids; explain the dielectric ferroelectric and magnetic properties of solids and understand the basic concept in superconductivity.
PAPER CODE: PHY-HE-5016 PAPER NAME: Experimental Techniques	Upon completion of this course, students will be able to describe the errors in measurement and statistical analysis of data required while performing an experiment. Also, students will learn the working principle, efficiency and applications of transducers & industrial instruments like digital multimeter, RTD, Thermistor, Thermocouples and Semiconductor type temperature sensors.
PAPER CODE: PHY-HE-5026 PAPER NAME: Embedded System: Introduction to microcontroller Total	Upon completion of this course, students will be able to understand microprocessor and microcontroller 8051. Students will also learn about the 8051 I/O port programming, various addressing modes, Timer and counter programming, Serial port programming with and without interrupt and interfacing 8051 microcontroller to peripherals
PAPER CODE:PHY-HE-5036 PAPER NAME: Advanced Mathematical Physics I	Upon completion of this course, students will be able to solve problems in Physics related to Linear Vector space, Matrix algebra, Tensor.
PAPER CODE: PHY-HE-5046 PAPER NAME: Physics of Devices and Instruments	Upon completion of this course, students will be able to gain knowledge on advanced electronics devices such as UJT, JFET,

	<p>MOSFET, CMOS etc., detailed process of IC fabrication, Digital Data serial and parallel Communication Standards along with the understanding of communication systems.</p>
<p>PAPER CODE: PHY-HE-5056 PAPER NAME: Nuclear and Particle Physics</p>	<p>Upon completion of this course, students will have the understanding of the sub atomic particles and their properties. They will gain knowledge about the different nuclear techniques and their applications in different branches of Physics and societal application. The course will develop problem based skills and the acquire knowledge can be applied in the areas of nuclear, medical, archeology, geology and other interdisciplinary fields of Physics and Chemistry.</p>
<p>PAPER CODE: PHY-HC-6016 PAPER NAME: Electromagnetic Theory</p>	<p>On successful completion of the course students will acquire the concepts of Maxwell's equations, propagation of electromagnetic (EM) waves in different homogeneous-isotropic as well as anisotropic unbounded and bounded media, production and detection of different types of polarized EM waves, general information as waveguides and fibre optics.</p>
<p>PAPER CODE:PHY-HC-6026 PAPER NAME: Statistical Mechanics</p>	<p>On successful completion of the course students will be learn the techniques of Statistical Mechanics to apply in various fields including Astrophysics, Semiconductors, Plasma Physics, Bio-Physics, Chemistry and in many other directions.</p>
<p>PAPER CODE: PHY-HE-6016 PAPER NAME: Communication Electronics</p>	<p>Upon completion of this course, students will have the concepts of electronics in communication, details of communication techniques based on Analog Modulation, Analog and digital Pulse Modulation including PAM, PWM, PPM, ASK, PSK, FSK, overview of communication and</p>

	Navigation systems such as GPS and mobile telephony system.
PAPER CODE: PHY-HE-6026 PAPER NAME: Digital Signal Processing	Upon completion of this course, students will be able to understand the discrete-time signals and systems, Fourier Transform Representation of Aperiodic Discrete-Time Signals. This paper also highlights the concept of filters and realization of Digital Filters. At the end of the syllabus, students will develop the understanding of Discrete and fast Fourier Transform.
PAPER CODE: PHY-HE-6036 PAPER NAME: Advanced Mathematical Physics II	Upon completion of this course, students will be able to apply the concepts of Calculus of Variations, Group Theory and Probability Theory to solve numerical problems in Physics.
PAPER CODE: PHY-HE-6046 PAPER NAME: Astronomy and Astrophysics	Upon completion of this course, students will be able to understand the origin and evolution of the Universe. The course will give a comprehensive introduction on the measurement of basic astronomical parameters such as astronomical scales, luminosity and astronomical quantities. It will give an overview on key developments in observational astrophysics. Students will have the idea of the instruments implemented for astronomical observation, the formation of planetary system and its evolution with time, the physical properties of Sun and the components of the solar system; and stellar and interstellar components of our Milky Way galaxy. Students will have the understanding of the origin and evolution of galaxies, presence of dark matter and large scale structures of the Universe

<p>PAPER CODE: PHY-HE-6056 PAPER NAME: PHYSICS-DSE: CLASSICAL DYNAMICS</p>	<p>Upon completion of this course, students will have the overview of Newton's Laws of Motion, Special Theory of Relativity by 4-vector approach and fluids. Students will also have the understanding of the Lagrangian and Hamiltonian of a system. By the end of this course, students will be able to solve the seen or unseen problems/numericals in classical mechanics.</p>
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Department of Political Science

Papers Code & Name of the Papers	Course Outcomes
<p>POL HC 1016 Understanding Political Theory</p>	<ul style="list-style-type: none"> • To Introduce the idea of political theory and various approaches • To enable the students to assess the contemporary trends of political theory • To reconcile theory and practice in relation to democracy

<p>POL HC 1026 Constitutional Government and Democracy in India</p>	<ul style="list-style-type: none"> • To acquaint students with constitutional design of state structures and institutions • To understand the conflicts in constitutional provisions • To make them comprehend the state institutions in relation to extra constitutional environment.
<p>POL HG 1016 Introduction to Political Theory</p>	<ul style="list-style-type: none"> • To introduce the key concepts in political theory • To make students understand the aspects of conceptual analysis • To engage the students in application of concepts and their limitation
<p>POL HC 2016 Political Theory Concepts and Debate</p>	<ul style="list-style-type: none"> • Understand the various concepts in political theory and appreciate how they can be helpful to analyze crucial political issues • Understand the significance of debates in political theory in exploring multiple perspectives to concepts, ideas and issues. • Appreciate how these concepts and debates enrich political life and issues surrounding it.
<p>POL HC 2026 Political Process in India</p>	<ul style="list-style-type: none"> • Understand the working of major political institutions in India • Understand the major debates in Indian politics along the axes of caste, gender, region and religion • Understand the changing nature of the Indian state and the contradictory dynamics of modern state power
<p>POL HG 2016 Indian Government and Politics</p>	<ul style="list-style-type: none"> • Appreciate the approaches to the study of Indian politics and the changing nature of the state • Understand the basic features of the Indian constitution and its institutional functioning <ul style="list-style-type: none"> • examine the changing role of caste, class and patriarchy and their impact on politics • understand the dynamics of social movements in India.
<p>POL HC 3016 Introduction to Comparative Government and Politics</p>	<ul style="list-style-type: none"> • To make students understand the basic concepts in comparative politics, • To make students classify the different political systems and historical context of modern governments, • To enable students to have a comparative analysis of countries related to their political institutions and behavior.
<p>POL HC 3026 Perspectives on Public Administration</p>	<ul style="list-style-type: none"> • To enable students to learn the basic concepts related to public administration and its

	<p>importance,</p> <ul style="list-style-type: none"> • To make students learn the major theories of public administration, • To enable students to have an understanding of public policy and its formulation, <p>• To familiarize students with the major approaches and recent debates related to field of public administration.</p>
<p>POL HC 3036 Perspectives on International Relations and World History</p>	<ul style="list-style-type: none"> • To make students understand the key theoretical approaches in International relations, • To familiarize students with the evolution of International state systems and its importance. • To make students aware of the key theoretical debates in International relations • To enable students to have an overall understanding of International relations in relation to twentieth century IR history.
<p>POL SE 3014 Parliamentary Procedures and Practices</p>	<ul style="list-style-type: none"> • To help students in understanding the practical approaches to legislatives practices and procedures, • To make students understand the procedures and processes related to drafting a Bill and the passage of the Bill, • To enable students to have an understanding of the importance of Parliamentary Committees, • To make students learn about the basic functioning of Parliament.
<p>POL HG 3016 Comparative Government and Politics</p>	<ul style="list-style-type: none"> • To make students have a basic understanding of comparative political analysis, • To make students learn the classification of political systems from a comparative politics framework. • To make students learn the classification of governments and the political behavior of institutions and the changes in the nature of the nation-state.
<p>POL HC 4016 Political Processes and Institutions in Comparative Perspective</p>	<ul style="list-style-type: none"> • To understand, comprehend and analyze the complex nature and functioning of the political systems, political institutions and corresponding issues to these both in a country specific case of India and cross-country perspectives • To demonstrate critical thinking about key issues of political system of different forms, political process and public policy.

	<ul style="list-style-type: none"> • To use the contents and sub-units of the course as yardsticks for comparing these political systems and processes.
POL HC 4026 PUBLIC POLICY AND ADMINISTRATION IN INDIA	<ul style="list-style-type: none"> • be familiarized with and gain knowledge about the processes of public policy making in India and their significance in administering the state. • develop the ability to assess the functioning of the government and the administration in ensuring a citizen centric welfare administration in India.
POL HC 4036 Global Politics	<ul style="list-style-type: none"> • To enable students to understand how to approach a wide range of important global political and economic policy problems and participate in public policy debates on the crucial issues facing the world today. • To have knowledge of the essential theoretical assumptions underlying globalization's conceptual frameworks and their relationships to policy interventions. • to demonstrate elementary knowledge of major issues and subject-matters surrounding globalization that decides the international relations- political, economic and security relations- among the nations.
POL SE 4014: Panchayats Raj in Practice	<ul style="list-style-type: none"> • This paper will help students understand the importance of grass root political institutions in empowering people. • This paper will highlight the complex challenges faced by PRIs in India and mechanisms involved to make it more participatory and inclusive in nature.
POL HG 4016 Introduction to International Relations	<ul style="list-style-type: none"> • To demonstrate basic understanding of scientific methods of inquiry in international relations. • To understand how international relations influence societies. • To demonstrate a basic understanding of the foundational theories and concepts in international relations. • To analyze the current world events and their implications on the Indian Foreign policy decision making process by applying prominent theories of international relations and generate substantial research question on the topics.

POL HC 5016 Classical Political Philosophy	<ul style="list-style-type: none"> • To interpret ideas underlying traditions in classical political philosophy • To analyze the debates and arguments of leading political philosophers belonging to different traditions of the period • To appraise the relevance of classical political philosophy in understanding contemporary politics
POL HC 5026 Indian Political Thought-I	<ul style="list-style-type: none"> • To underline themes and issues in political traditions of pre-colonial India. • To compare and contrast positions of different political traditions those were present in pre-colonial India. • To evaluate the relevance of political thought of pre-colonial India for contemporary politics.
POL HE 5016 Human Rights	<ul style="list-style-type: none"> • To interpret ideas underlying traditions in classical political philosophy • To analyze the debates and arguments of leading political philosophers belonging to different traditions of the period • To appraise the relevance of classical political philosophy in understanding contemporary politics
POL HE 5046 Select Constitutions	<ul style="list-style-type: none"> • Students will be able to understand the importance of constitutions; • This paper is an integral part of public services examinations. • Students will be introduced to the various types of constitutions and the forms of governments from different parts of the world.
POL HC 6016: Modern Political Philosophy	<ul style="list-style-type: none"> • To interpret ideas underlying traditions in modern political philosophy • To analyze the debates and arguments of leading political philosophers of different philosophical traditions • To appraise the relevance of modern political philosophy in understanding contemporary politics
POL HC 6026: Indian Political Thought-II	<ul style="list-style-type: none"> • To underline themes and issues in political thought of modern India. • To compare and contrast positions of leading political thinkers in India on issues those are constitutive of modern India. • To assess the relevance of political thought of modern India in understanding contemporary politics.

POL HE 6016: India's Foreign Policy in a Globalizing World	<ul style="list-style-type: none"> • To underline the issues in India's foreign policy • To evaluate the impact of global development on India's foreign policy • To demonstrate the change and continuity that marks India's foreign policy.
POL HE 6026: Understanding South Asia	<ul style="list-style-type: none"> • To identify geo-political and historical construction of South Asia as a region. • To analyze the politics and socio-economic issues of the South Asian Region. • To assess the relevance of regionalism in South Asia and India's position in the region.

Department of Sanskrit

SEMESTER	COURSES	COURSES OUTCOMES
I	SKT-HC-1016 Classical Sanskrit Literature (Poetry)	Aims to get students acquainted with Classical Sanskrit Literature, understanding the literature and appreciate the development of Sanskrit literature and seeks to help students to negotiate texts independently.
	Unit I: Raghuvamśam: Canto-I (Verse: 1-25)	
	Unit II: Kumārasambhavam: Canto-V (Verse: 1-30)	
	Unit III: Kirātārjunīyam: Canto I (Verses :1-25)	
	Unit IV: Nītiśatakam: (Verse: 1-20) 1 st two Paddhatis	
	Unit V: Origin and Development of Mahākāvya and Gītikāvya	
	SKT-HC-1026 Critical Survey of Sanskrit literature	Intends to give an outline of different traditions of Sanskrit Literature from the Vedic to the Purāṇas and śhāstra.
	Unit I: Vedic Literature	
	Unit II: Rāmāyaṇa	

	Unit III: Mahābhārata	
	Unit IV: Purāṇas	
	Unit V: General Introduction to Vyākaraṇa, Darśana and Sāhityaśāstra	
II	SKT-HC-2016 Classical Sanskrit Literature (Prose)	Deals with the origin and development of Sanskrit Prose Literature like Banabhatta's Sukonopodesa, Fables and seeks to help students to understand the logical meaning of the texts.
	Unit I: Śukanāsopadeśa	
	Unit II: Viśrutacaritam Upto 15th Para	
	Unit III: Origin and development of prose, Important prose romances and fables	
	SKT-HC-2026 Self Management in the Gita	Describes the cognitive and emotional apparatus as mentioned in the Gita and helps students by explaining the controlling of mind and self management through devotion.
	Unit I: Gītā: Cognitive and emotive apparatus	
	Unit II: Gītā: Controlling the mind	
	Unit III: Gītā: Self management through devotion	

III	SKT-HC-3016 Classical Sanskrit Literature (Drama)	This course aims to acquaint student with three most famous dramas of Sanskrit literature which represent three stages in the growth of Sanskrit drama.
	Unit I: Svapnavāsavadattam: Act I & VI	
	Unit II: Abhijñānaśākuntalam: A	

	ct I & IV	
	Unit III: Mudrārākṣasam: Act I, II & III	
	Unit IV: Critical survey of Sanskrit Drama	
	SKT-HC-3026 Poetics and Literary Criticism	The study of Sanskrit poetics embraces all poetic arts and include concepts like Alamkara, Rasa, Riti, Vakrokti, Dhvani, Auchitya etc. This develop capacity for creative writing and literary appreciation.
	Unit I: Introduction to Sanskrit Poetics	
	Unit II: Forms of Kāvya- Literature	
	Unit III: Śabda-śakti (Power of Word) and rasa-sūtra	
	Unit IV: Alaṅkāra (figures of speech) and chandas (metre)	
	SKT-HC-3036 Indian Social Institutions and Polity	Deals with various aspects of social institutions and Indian polity as propounded in the ancient Sanskrit texts like Samhitas, Mahabharata, Purana, Kautilya's Arthasastra etc. which gives thorough knowledge about the structure of society and value of life.
	Unit I: Indian Social Institutions: Nature and Concepts	
	Unit II: Structure of Society and Value of Life	
	Unit III: Indian Polity : Origin and Development	
	Unit IV: Cardinal Theories and Thinkers of Indian Polity	
SKILL ENHANCEMENT COURSE (SEC)		
	SKT-SE-3014 Acting And Script Writing	In this course is to make the students acquainted with the Acting and script writing. It aims at sharpening the dramatic
	Unit I: Acting (Abhinaya)	

	Unit II: Script Writing (Patakathalekhana)	talent of the students
IV	SKT-HC-4016 Indian Epigraphy, Palaeography and Chronology	Aims to acquaint the students with the epigraphical journey in Sanskrit, the only source which directly reflects the society, politics, geography and economy of the time and also help students to know the different styles of Sanskrit writings.
	Unit I: Epigraphy	
	Unit II: Paleography	
	Unit III: Study of selected inscriptions	
	Unit IV: Chronology	

	SKT-HC-4026 Modern Sanskrit Literature	The purpose of this course is to expose students to rich and profound traditional knowledge and also of modern creative writing in Sanskrit.
	Unit I: Mahākāvya and Charitakāvya	
	Unit II: GadyaKāvya and Rūpaka	
	Unit III: GītiKāvya and Other genres	
	Unit IV: General Survey of Modern Sanskrit Literature	
	SKT-HC-4036 Sanskrit and World Literature	This course aims to provide information to students about the spread and influence of Sanskrit literature and culture through the ages in various parts of the world in medieval and modern times. Such as translation of the Gita in European languages and its impact on the religious philosophical thoughts of the west, translation of Pancatantra in Eastern and Western languages.
	Unit I: Survey of Sanskrit Literature in the World	
	Unit II: Upaniṣads and Gītā in World Literature	
	Unit III: Sanskrit Fables in World Literature	
	Unit IV: Rāmāyaṇa and Mahābhārata in South East Asian Countries	

	Unit V: Kālidāsa's Literature in World Literature	
	Unit VI Sanskrit Studies across the World	
	SKILL ENHANCEMENT COURSE (SEC)	
	SKT-SE-4014 Sanskrit Metre And Music	From this course students will get the complete information regarding selected Vedic and Classical metres with lyrical techniques.
	Unit I: Brief introduction to Cchandasastra	
	Unit II: Classification and Elements of Sanskrit Metre	
	Unit III: Analysis of Selected Vedic metres and their musical rendering	
	Unit IV: Analysis of selected Classical metres and their musical rendering	
V	SKT-HC-5016 Vedic Literature	
	Unit I: Samhitā and Brāhmaṇa	
	Unit II: Vedic Grammar	
	Unit III: Muṇḍakopaniṣad	
	SKT-HC-5026	

	Sanskrit Grammar	This course aims to acquaint students with general Sanskrit Grammar.
	Unit I: General Introduction to Vyakarana, Sivasutra, Paribhasa Sandhi	
	Unit II: Natvavidhi & ṣatvavidhi,	

	Unit III: Declension Conjugation and roots	
	Unit IV: Karaka prakaranam, Samasa Prakaranam	
	DISCIPLINE SPECIFIC ELECTIVE (DSE)	
	SKT-HE-5016 Art of Balanced Living	This course aims to get the students acquainted with theories of art of living inherent in Sanskrit literature and apply them to live a better life. It also intends to make students work on human resource management for giving better results.
	Unit I: Self-presentation	
	Unit II: Concentration	
	Unit III: Refinement of Behaviour	
	SKT-HE-5046 Project/Dissertation	Aims to acquaint the students with the journey in Sanskrit, the only source which directly help students to know the different styles of Sanskrit writings.
VI	SKT-HC-6016 Indian Ontology and Epistemology	This course deals with the cardinal principles of the Nyaya-Vaisesika Philosophy through the Tarkasamgraha. It also intends to give them an understanding of essential aspects of Indian philosophy.
	Unit I: Essentials of Indian Philosophy	
	Unit II: Ontology (Based on Tarkasamgraha)	
	Unit III: Epistemology (Based on Tarkasamgraha)	
	SKT-HC-6026 Sanskrit Composition and Communication	This paper aims to teaching composition and other related informations based on LaghuSiddhantaKaumudi and Vibhaktyartha Prakarana.
	Unit I: Vibhaktyartha, Voice and Krt	
	Unit II: Translation and Communication	
	Unit III: Essay	

DISCIPLINE SPECIFIC ELECTIVE (DSE)		
	SKT-HE-6016 Fundamentals of Ayurveda	The major objective is to understand the basic principles and concepts of preventive medicine and health maintenance, diet and nutrition, usage of commonly used spices and herbs and
	Unit I: Introduction of Āyurveda	
	Unit II: Carakasamhitā (Sūtra-sthānam)	
	Unit III: Bhaisajyaratnavali	

		outline of Ayurvedic therapeutic procedures in Ayurveda in day to day life.
	SKT-HE-6036 Kamarupa School of Dharmasastras	Describes the Kamarupa school of Dharmasastra in Assam.
	Unit I: Introduction to Dharmasastras in Assam	
	Unit II: Kamarupa School of Dharmasastra	
	Unit III: Tirthakaumudi of Pitambarasiddhantavagisha	

REGULAR COURSE		
SEMESTER	COURSES	COURSES OUTCOMES
I	SKT-RC-1016 Basic Sanskrit	This is an elementary grammar course in Sanskrit language designed for students who wish to learn Sanskrit from the very beginning.
	Unit I: Grammar and composition Part I	
	Unit II: Grammar and composition Part II	
	Unit III: Literature	

II	SKT-RC-2016 Indian Culture And Social Issues	This paper is designed to introduce about Indian culture to students and to show how cultural traditions have evolved.
	Unit I: Culture in a multi-cultural society	
	Unit II: Cultural roots of India	
III	SKT-RC-3016 Basic Principles Of Indian Medicine System (Ayurveda)	Ayurveda is a traditional Indian system of healthcare that has been traced back to as early as 5,000 BC. This course will introduce students to understand the basic principles and concepts of preventive medicine and health care, diet and nutrition etc.
	Unit I: Introduction to Indian Medicine System: Ayurveda	
	Unit II: Basic Principles of Ayurveda	
	Unit III : Dietetics, Nutrition and Treatment in Ayurveda	
	Unit IV: Important Medicinal Plants in Ayurveda	
IV	SKT-RC-4016 Fundamentals Of Indian Philosophy	This course aims to get the students acquainted with the basic approach to study Indian
	Unit I: General Introduction	
	Unit II: Schools of Indian Philosophy	

	Unit III: Problems of Indian Philosophy	philosophy and to enable students to grasp knowledge from the original Sanskrit text only.
DISCIPLINE SPECIFIC ELECTIVE (DSE)		
V	SKT-RD-5026 Fundamentals of Ayurveda	The major objective is to understand the basic principles and concepts of preventive

	Unit I: Introduction of Āyurveda	medicine and health maintenance, diet and nutrition, usage of commonly used spices and herbs and outline of Ayurvedic therapeutic procedures in Ayurveda in day to day life.
	Unit II: Carakasamhitā – (Sūtra sthānam)	
	Unit III: Bhaisajyaratnavali	
VI	SKT-HE-6036 Kamarupa School of Dharmasastras	Describes the Kamarupa school of Dharmasastra in Assam.
	Unit I: Introduction to Dharmasastras in Assam	
	Unit II: Kamarupa School of Dharmasastra	
	Unit III: Tirthakaumudi of Pitambarasiddhantavagisha	

DEPARTMENT OF SOCIOLOGY (HONOURS)

PAPER NAME AND CODE	COURSE OUTCOMES
Introduction to Sociology-A SOC-HC-1016	<ul style="list-style-type: none"> • The course will enable students to comprehend social reality through sociological concepts. • The course will assist students for higher studies, competitive examinations and research work.

<p>Sociology of India-A SOC-HC-1026</p>	<ul style="list-style-type: none"> • The course will enable students to have an understanding on when, how and in what context Sociology as an academic discipline has emerged in India. • The course will enable students to acquire a broad overview on various issues, concerns and overall social situations of Indian society by looking at diverse concerns of sociologists of India since the time of its inception as an academic discipline.
<p>Introduction to Sociology SOC-HG-1016</p>	<ul style="list-style-type: none"> • The course will enable students to comprehend social reality through sociological concepts. • The course will assist students for higher studies, competitive examinations and research work.
<p>Introduction to Sociology-B SOC-HC-2016</p>	<ul style="list-style-type: none"> • The course will enable students to comprehend social reality through sociological perspectives • The course will assist students for higher studies, competitive examinations and research work.
<p>Sociology of India-B SOC-HC-2026</p>	<ul style="list-style-type: none"> • The course will enable the students to gather an understanding on how the Indian society as an object of study has been objectified and studied. • The course will also enable the students to acquire a historical perspective on Indian society. • The course will facilitate them to theorize and analyse critically the contemporary Indian society
<p>Sociology of India SOC-HG-2016</p>	<ul style="list-style-type: none"> • The course will enable students to have an understanding on when, how and in what context Sociology as an academic discipline has emerged in India. • The course will enable students to acquire a broad overview on various issues, concerns and overall social situations of Indian society by looking at diverse concerns of sociologists of India since the time of its inception as an academic discipline.

<p>Political Sociology SOC-HC-3016</p>	<ul style="list-style-type: none"> • This course introduces the students to some major theoretical debates and concepts in Political Sociology, while situating these within contemporary political issues. • To critically engage with the multiple socio-political forces and ideologies which shape the terrain of the nation
<p>Economic Sociology SOC-HC-3026</p>	<ul style="list-style-type: none"> • The course provides an understanding of the social and cultural bases of economic activity. • It highlights the significance of sociological analysis for the study of economic processes in local and global contexts.
<p>Sociology of Gender SOC-HC-3036</p>	<ul style="list-style-type: none"> • The course introduces gender as a critical sociological lens of enquiry in relation to various social fields. • It also interrogates the categories of gender, sex, and sexuality.
<p>Sociological Theories SOC-HG-3016</p>	<ul style="list-style-type: none"> • The course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of Sociology. • The course will enable students to acquire a broad overview on various issues, concerns since the time of its inception as an academic discipline.
<p>Rural sociology in India SOC-HC-4016</p>	<ul style="list-style-type: none"> • It will enable students to make a scientific, systematic and comprehensive study of the rural social organisation of its structure, function and objective tendencies of development. • And on the basis of such a study it will help students suggest ways for improving village conditions and discover the laws of its development.

<p>URBAN SOCIOLOGY IN INDIA</p> <p>SOC-HC-4026</p>	<ul style="list-style-type: none"> • It will enable students to make a scientific, systematic and comprehensive study of the urban space, its social organisation , structure and function • With case studies from India and other parts of the world this course will help students relate to the complexities of urban living.
<p>SOCIOLOGY OF FAMILY, MARRIAGE AND KINSHIP</p> <p>SOC-HC-4036</p>	<ul style="list-style-type: none"> • The course will enable students to conceptualize and theorize the social institutions of family, marriage and kinship. • The course will enable students to understand the changes in the institutions family, marriage and kinship in contemporary period.
<p>METHODS OF SOCIOLOGICAL ENQUIRY</p> <p>SOC-HG-4016</p>	<p>With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research.</p>
<p>TECHNIQUES OF DOING SOCIAL RESEARCH</p> <p>SEC</p> <p>SOC-SE-4024</p> <p>SOCIOLOGICAL THINKERS–I</p> <p>SOC-HC-5016</p>	<ul style="list-style-type: none"> • The course will provide first-hand experience to students in designing and conducting research in their own field of interest. • The course will assist students for higher studies, competitive examinations and research work. • The course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of sociology. • The course will enable students to acquire a broad overview on various issues, concerns since the time of its inception as an academic discipline

<p>SOCIOLOGICAL RESEARCH METHODS – I</p> <p>SOC-HC-5026</p>	<ul style="list-style-type: none"> • The course will provide students with skills to conceptualize research problem and carry out their research work. • The course will provide student with some elementary knowledge of the complexities and philosophical underpinnings of research.
<p>INDUSTRIAL SOCIOLOGY IN INDIA</p> <p>DSE</p> <p>SOC-HE-5026</p>	<ul style="list-style-type: none"> • The course will provide the students with the ability to analyse the impact of industrialization on society and individuals • The course will enable students to develop ideas and make critical analysis of the process and development of industrial progress and challenges of India.
<p>SOCIAL STRATIFICATION</p> <p>DSE</p> <p>SOC-HE-5036</p>	<ul style="list-style-type: none"> • The course will introduce students to sociological study of social inequalities. • The course will explain students the theoretical perspectives on and diverse forms of social inequality in articulation with each other.
<p>SOCIOLOGICAL THINKERS II</p> <p>SOC-HC-6016</p> <p>SOCIOLOGICAL RESEARCH METHODS –II</p> <p>SOC-HC-6026</p>	<ul style="list-style-type: none"> •The course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of sociology. •To introduce students to post-classical sociological thinking through some original texts. • The course will help students understand the basic concept and importance of research. • The course will provide students with the elementary knowledge and understanding on how to conduct both quantitative and qualitative research

<p>SOCIAL DEMOGRAPHY</p> <p>DSE</p> <p>SOC-HE-6016</p>	<ul style="list-style-type: none"> • The course will enable students to enquire the trends of population and its relationships with the different aspects of social organization and institutions in the area. • The course will enable students to achieve broader knowledge about the population dynamics.
<p>SOCIOLOGY OF SOCIAL MOVEMENTS</p> <p>DSE</p> <p>SOC-HE-6026</p>	<ul style="list-style-type: none"> • It introduces the contexts and concepts of social movements and attempts to theoretically locate them through concrete case studies.

(REGULAR)

PAPER NAME AND CODE	COURSE OUTCOMES
<p>INTRODUCTION TO SOCIOLOGY</p> <p>SOC-RC-1016</p>	<ul style="list-style-type: none"> •The course will enable students to comprehend social reality through sociological concepts. •The course will assist students for higher studies, competitive examinations and research work.
<p>SOCIOLOGY OF INDIA</p> <p>SOC-RC-2016</p>	<ul style="list-style-type: none"> • The course will enable students to have an understanding on when, how and in what context Sociology as an academic discipline has emerged in India. • The course will enable students to acquire a broad overview on various issues, concerns and overall social situations of Indian society by looking at diverse concerns of sociologists of India since the time of its inception as an academic discipline.

<p>SOCIOLOGICAL THEORIES</p> <p>SOC-RC-3016</p>	<ul style="list-style-type: none"> •The course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of Sociology. •The course will enable students to acquire a broad overview on various issues, concerns since the time of its inception as an academic discipline.
<p>FUNDAMENTALS OF SOCIAL STATISTICS</p> <p>SOC-SE-3014</p>	<ul style="list-style-type: none"> •The course will provide first-hand experience to students in designing and conducting quantitative research. •The course will assist students for higher studies, competitive examinations and research .
<p>METHODS OF SOCIOLOGICAL ENQUIRY</p> <p>SOC-RC-4016</p>	<ul style="list-style-type: none"> •With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research.
<p>SOCIAL STRATIFICATION</p> <p>SOC-SE-4014</p>	<ul style="list-style-type: none"> • The course will introduce students to sociological study of social inequalities. • The course will explain students the theoretical perspectives on and diverse forms of social inequality in articulation with each other.
<p>RURAL SOCIOLOGY IN INDIA</p> <p>SOC-RE-5016</p>	<ul style="list-style-type: none"> • It will enable students to make a scientific, systematic and comprehensive study of the rural social organisation of its structure, function and objective tendencies of development. • And on the basis of such a study it will help students suggest ways for improving village conditions and discover the laws of its development.
<p>GENDER SENSITIZATION</p> <p>SOC-SE-5014</p>	<ul style="list-style-type: none"> • The course introduces gender as a critical sociological lens of enquiry in relation to various social fields. • It also interrogates the categories of gender, sex, and sexuality.

URBAN SOCIOLOGY IN INDIA SOC-RE-6016	<ul style="list-style-type: none">• It will enable students to make a scientific, systematic and comprehensive study of the urban space, its social organisation , structure and function• With case studies from India and other parts of the world this course will help students relate to the complexities of urban living
THEORY AND PRACTICE OF DEVELOPMENT SOC-SE-6014	<ul style="list-style-type: none">•Student can develop their scientific, systematic and comprehensive knowledge

Department of Zoology

COURSES	OUTCOME
<p>Semester I Core course I : Non chordates I : Protistes to pseudocolomates CODE: ZOO-HC-1016</p> <p>Practical:</p>	<p>Students will learn about importance of systematic, taxonomy , structural organization of the animals and will appreciate diversity of non-chordates.</p> <ul style="list-style-type: none"> ° They will be able to critically analyse organization, complexity and characteristic features of non -chordates along with their signification interaction with the environment. ° Direction of different system of invertebate animals are to be situated such as leech, cockroach, pila and prawn etc. <p>Study of museum specimen identified and classified the specimens which are present the departmental museum by the students for a practical knowledge of them</p>
<p>Semester II Core course I : Non chordates II : Caelomates CODE: ZOO-HC-2016 PRACTICAL:</p>	<ul style="list-style-type: none"> ° Understand the evolutionary history and relationship between the different classes of chordates. ° Know the different characteristics along their habits, habitats and distribution of chordates . ° Temporary slides are prepared from different organs to study the details of their students prepared by students. <p>°Prepared slides are studied in this part to understand the students and arrangement of different molecular region .</p>

<p>Core Course II : Cell biology : CODE: ZOO-HC-2026</p> <p>PRACTICAL:</p>	<p>° From this segment of the syllabus students aware about the size , shape, structure and function of cells and different cell organelles. This will help the students for a better understanding of cell and its cycle</p> <p>° Practical application of cellular components are to be studied by the help of this part a student will able to handle the cells and times with higher knowlwdge.</p>
<p>Semester III : Core course I: Diversity of chordata: CODE :ZOO-HC- 3016</p> <p>PRACTICAL:</p>	<p>° Different groups of invertebrate animals are studied in this course including Protozoa, Porifera, coelenterate, Plathyhelminthes, Aschelminthes, Annelida, Arthropoda, Mollusca and Echinodermata. General characters and classification upto order are studied. Some special features, organs, pathogenecity, life history and significance are studied here.</p> <p>®To create knowledge regarding internal system of chordates.</p> <p>®To make the student observe the diversity in chordates.</p>
<p>Core course II: Animal physiology: Controlling and coordinating systems CODE: ZOO-HC-3026</p> <p>PRACTICAL:</p>	<p>.Understand the functions of important physiological systems including digestion, cardio respiratory, renal, nerve and muscle, reproductive and endocrine glands.</p> <p>Explaining various aspects of physiological activities of animals with special reference to humans.</p> <p>.This will provide basic understanding of the experimental methods and designs that can be used for further study and research.</p>

<p>Core course III: Fundamentals of Biochemistry: CODE:ZOO-HC-3036</p> <p>PRACTICAL:</p> <p>Skill course:Ornamental Fish & Fisheries: CODE: ZOO-SE-3014</p> <p>Semester IV: Core course VIII: Comparative Anatomy of Vertebrates CODE: ZOO-HC-4016</p> <p>PRACTICAL:</p>	<p>° This course will provide students with a deep knowledge in biochemistry and bioenergetics.</p> <p>° Defining and explaining the basic principles of biochemistry and bioenergetics useful for biological studies for illustrating different their structure, function and metabolism. .Identification of isolated bacteria ,and growth curve microorganism. .The student will get practical knowledge of preparation of buffers and measurements of pH. This course will provide identification of fishes up to species level. Analysis of different fish catch data and statistical derivation of their results and expression.</p> <p>The course content gives idea about comparative knowledge of the basic structure of organs or organ system in different group of animals to establish the evolutionary relationship Students will have understood the structures of different systems such as integumentary,skeletal ,digestive ,respiratory ,circulatory,urogenital,nervous and sensory organs in comparative way among the vertebrate and adaptation.</p>
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<p>Core Course IX: Animal Physiology :life sustaining systems: CODE: ZOO-HC-4026 PRACTICAL:</p>	<p>° Students will know the physiology of digestion, respiration, circulation ,excretion and adaptation. °Understand the functions of important physiological systems including digestion , cardio respiratory ,renal ,nerve and muscle , reproductive</p>
<p>Core course X: Biochemistry of Metabolic Process CODE: ZOO-HC-4036 Practical: Skil enhancement course:Sericulture:</p>	<p>° Students will understand the metabolism of carbohydrates ,lipids, and protein in details.They will also learn about oxidative phosphorylation and redox reactions. °Understanding the fundamental biochemical principles such as the structure ,functions of biomolecules .metabolic pathway and regulation of biological.biochemical process °This course offers employment and job oportunities in the public,private and government sector .This will give understand the knowlege about the cultivation of mulberry.</p>

<p>Semester V Core course XI: Molecular Biology: CODEZOO-SE-4014</p> <p>PRACTICAL:</p> <p>Core course XII:Principles of Genetics: CODE: ZOO-HC-5016</p> <p>Practical:</p>	<p>°Students will acquire knowlege about replication, transcription,translation,post transcriptional and post translational modifications ,gene regulation ,DNA repair mechanism and various molecular tools and techniques like PCR ,southern ,northern ,western blotting ,RDT etc.</p> <p>°Students will know the various tools and technique related to bacterial microbiology .Some aspects of applied microbiology and diseases related to microbiology will also be learnt by the students.</p> <p>°Students will learn the fundamental genetics like Menlian and non-mendalian inheritances ,linkages , mutations , sex determination of various animals ,extrachromosomal inheritances,transposable genetic elements etc.</p> <p>°Student will understand the various aspects of biostatistics I such as central tendency ,t-test ,chi-square, ANOVA,correlation and regression.</p>
<p>Decipline Centric Elective Courses: 1.Animal Biotechnology : CODE: ZOO-HE-5026</p> <p>Practical:</p>	<p>Imparts the to culture animal cells in artificial media and knowledge of animal cells in culture, growth of cell lines.</p> <p>° It gives insight into various cell/tissues culture techniques .</p> <p>°Understanding of in vitro culturing of organism and production of transgenic animals.</p>
<p>2.Endocrinology: CODE: ZOO-HE-5036</p> <p>Practical:</p>	<p>°Understand nerohormes and neurasecrtions and learn about hypothalamo and hypapophysical axis.Understand the different endocrine glands and their disorders.</p> <p>Understand about the disection and demonstration of endocrine glands in laboratory and study of the permanant slides of all the the endocrine glands.</p>

<p>Semester VI Core Course XIII: Developmental Biology CODE:ZOO-HC-6016</p> <p>Practical:</p>	<p>°Students will learn the different aspects of early ,late and post embryonic developments .They will have the knowlege about implications of development biology in various fields , such as in tetratogenesis ,stem cell biology ,in vitro fertilization ,cryopreservation ,cord blood transfusion etc.</p> <p>°Students will be able to analyse scientific data and draw conclusion from identify mechanisms involved in the development of complex organism from the egg in fertilized sperm.</p>
<p>Core course XIV :Evolutionary Biology : CODE: ZOO-HC-6026</p> <p>Practical:</p>	<p>°Students will know about population genetics ,human evolution ,various concepts about origin of species ,extinctions ,phylogenetic tree making.They will also understand few basic of bioinformatics.</p> <p>°Understand how DNA encodes genetic information and the function of tRNA and apply the principles of Medelian Inheritance</p>
<p>Discipline Centric Elective Course 1.Biology of Insecta: CODE: ZOO-HE-6016</p> <p>Practical:</p>	<p>°Attain a solid foundation in insect biology ,including general entomoly ,basic systematics,morphology ,physiology and biodiversity.</p> <p>°Develop the ability to design and perform a scientific study on insects and to analyse results.</p>

<p>2.Fish and Fisheries : CODE: ZOO-HE-6026</p> <p>PRACTICAL:</p> <p>Dissertation :Dissertation of Zoology specific subject:</p>	<p>°Students will learn the need to incorporate social information in fisheries °Students graduating with a Bachelor degree in Aquaculture will be trained to involve in higher education and other job opportunities .</p> <p>°Demonstrate knowledge of the biological ,economic ,social and manging fisheries.</p> <p>°The outcome of this course in the completion of a dissertation .The Dissertation reports a research project conducted with the guidance of an academic supervisor</p>
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Zoology (Regular& Honours Generic)

<p>Semester 1</p> <p>Core course1: Animal diversity CODE: ZOO-RC-1016 ZOO-HG-1016</p> <p>PRACTICAL:</p>	<ul style="list-style-type: none"> *To classify phylum porifera with taxonomic keys *To describe the phylum coelenterates and it's polymorphism *To identify the given mollusca with respect to economic importance *To explain classification of protozoa and diseases caused by them *To explain classification of protozoa and diseases caused by them. <p>*Students will be able to evacuate animals according to the level of organization.</p> <p>*Body plan, symmetry, germ, layers,coelom development etc.</p>
<p>Semester 2</p> <p>Comparative Anatomy and Development Biology of vertebrates CODE: ZOO-RC-2016 ZOO-HG-2016</p> <p>PRACTICAL:</p>	<ul style="list-style-type: none"> *To study about the basic structure,organisms. *To know about the anatomical systems and their modification in the major transitions in vertebrates evolution. *Students will be able to study the general patterns and sequential developmental stages during.