



ENGLISH

PROGRAMME: (B.A. (MAJOR & GENERAL IN ENGLISH))

A. PROGRAMME OUTCOME:

The UG English major course of Gauhati University has been prepared in an extensive way so as to acquaint the students with multiple trends of English literature and the different movement of writing beginning from the period of English period up to the post modern era. The non-CBCS Major course contains 20 courses, previously known as papers, from semester 1 to semester 6. The overall programme outcomes of this course are as follows:

1. The course has increased students' knowledge on multiple genres of English literature in the overall European context.
2. This course has enhanced students' understanding how to use their own resources to dig deep into the world of prose, poetry, drama, fiction, non-fiction, various essays and biographical writings including letter.
3. This course is proved to highly successful in intensifying the students' imaginative process through the inclusion of 'novel writing' as a main part of the syllabus. Various interesting and thought provoking novel are included in the course from the 18th century to the present time to orient the creative talents of students in a very pleasing way.
4. Our major component of the course is the history of English literature from the beginning to the present time. This comprehensive analysis of British historical movement has given students an opportunity to study not only literary aspect of British literature but also the social, political, economic and cultural contexts of European history.
5. This course not only enhances students' critical sensibility to literariness of a text in view of various critical approaches from Plato to conflicting post modern cities, but also to their aesthetic attachment to the beauty of English rhetoric and prosody.

CBCS Honours course

1. The CBCS honours course of English is a beautiful assimilation of oriental and occidental literature. In this, the students will get ample opportunities to enhance their literary knowledge on Indian classical literature and European classical literature. It includes very interesting, selective writings of British literature and of world literature as well.
2. Since this course is recently introduced it has miles to go ahead. Obviously it will be very interesting and experimental adventure both for the students and teachers.

**CBCS General Course:**

1. The Non-CBCS general in English has been prepared to provide knowledge of English Prose, Poetry along with Grammar and composition.
2. The CBCS compulsory English course focuses importance to multiple topics like prose, poetry and drama written by British as well as Indian writers. It also deals with different grammatical aspects in a new, interesting and students friendly way.
3. The Ability Enhancement Compulsory course in English is designed to serve the academic needs of both Science and Arts students.
4. The Communicative English course is based on practical orientation in English language. This course will obviously be very beneficial to students in practical life.

B. PROGRAMME SPECIFIC/COURSE SPECIFIC OUTCOMES:

Programme	CBCS/Non - CBCS	Course Code	Title of the course	Programme outcome
UG (English)	BA/B.Sc. (Non-CBCS)	1.1	The social and Literary Context: Medieval and Renaissance	<ol style="list-style-type: none"> 1. This paper acquaints students with the contexts of the English literary tradition. 2. Students are expected to read and relate the circumstances that influenced, shaped and contributed to the process of literary production from the medieval period to the Renaissance.
		1.2	Medieval and Renaissance: Poetry and Plays	<ol style="list-style-type: none"> 1. In this paper students will study poetry and drama that emerged against the literary and historical contexts studied in the previous paper that will examine the student's ability to identify and elaborate on lines and passages from the starred texts.
		2.1	The Social and Literary Context:: Restoration to the Romantic Age	<ol style="list-style-type: none"> 1. The objective of this paper is to acquaint students with the contexts of the English literary tradition from the Restoration of Charles II and the reopening of the theatres in 1660 to the Age of Romanticism. 2. Students are expected to understand the



				circumstances that influenced, shaped and contributed to the process of literary production and topics identified in this paper are necessary and useful markers.
		2.2	English poetry, Drama and Fiction: Restoration to Romanticism	1. In this paper students will have the opportunity to study the literary texts that reflect the socio-cultural and political interests of the period studied in Paper III and also examine the ways in which texts take part in and are produced by urgent issues of a time.
		3.1	The Social and Literary Context :The Victorian World	1. This paper seeks to acquaint students with the contexts of the English literary tradition as it develops in the Victorian age. 2. Students are expected to study the social and literary history of the Victorian world as a necessary preparation for the texts that they will encounter in Paper VI.
		3.2	Victorian Poetry and Fiction	1. Students will here encounter the poetry that is characteristic of the Victorian period – forms like the dramatic monologue, the love poem, pre-Raphaelite experiments and the beginnings of modern poetic experience in Hopkins. 2They will also find examples of the great Victorian fiction that closely followed the social concerns of the period and experimented with narrative voice and perspective.
		4.1	The Social and Literary Context: Modernism and After	1. This paper will acquaint students with the circumstances that shaped the processes of literary production from the twentieth century to the present.



		4.2	English Poetry, Drama and Friction: Restoration to Romanticism	<p>1. This paper brings to the student a selection of the poetry and fiction of the modern and postmodern eras that is representative of important trends, critical shifts and formal experimentation</p> <p>2. In keeping with the internationalization associated with these cultural phases the selection is no longer strictly British but includes examples from other literary cultures like the American and the Latin American.</p>
		5.1	Modern Drama 1	<p>1. This paper will introduce students to 20th century English and European drama.</p> <p>2. Students are expected to acquaint themselves with the European historical and cultural situation in this period to read the prescribed theoretical texts in Section I and the plays in Section II.</p>
		5.2	Modern Drama2	<p>1. Students are expected to approach the texts in this paper in the light of the ideas, issues and texts in Paper 9.</p>
		5.3	The Essay in English: Addison to Dickens	<p>1. This paper introduces students to the literary form of the essay through a selection of representative texts from the 18th and 19th centuries.</p> <p>2. Students will have to acquaint themselves with the development of the form from the time of Francis Bacon (1561-1626), and examine the emergence of the periodical essay in the 18th century in the hands of Addison and Steele particularly because of favourable conditions like the increase in literacy rates and the appearance of a large number of periodicals which provided a forum for the articulation of views on a variety of topics.</p>



		5.4	The Essay in English: The Twentieth Century	<ol style="list-style-type: none"> 1. This paper will introduce students to developments in the genre of the essay in the 20th century. 2. Students will note how the genre has adapted in order to address a variety of contemporary issues and become the vehicle for representing personal experiences, moved into literary, social, and cultural criticism and engaged in polemic and persuasion.
		5.5	Life Writing: Biographies, Memoires and Letters	<ol style="list-style-type: none"> 1. This paper will enable the students to appreciate the element of narrativization in seemingly linear, transparent, straight forward accounts of lives of significant people set down in memoirs, biographies and letters. 2. This paper will try to have that sense of narrativization which informs all that text, which underscore the 'literary' quality of all texts by looking at various forms of life-writing such as memoirs, letters and biographies.
		5.6	Women's Writing	<ol style="list-style-type: none"> 1. This paper on writing by women introduces students to a body of literature that has emerged with growing feminist awareness of women's lives and their representation. 2. Students will address women's issues and interests, the condition of women in the place and time of the writer and uses and subversions effected in the genre of the novel by women in Section I.
		6.1	Literary Criticism	<ol style="list-style-type: none"> 1. This paper acquaints students with some of the key ideas of Western literary criticism from Graeco-Roman antiquity to the modern period and expects them to examine the implications of ideas, and orientations that have marked the history of literary criticism.



				2. The paper is designed to present students with the opportunity to study key concepts associated with the names of significant thinkers in this history.
		6.2	Twentieth Century Criticism And Theory	1. This paper introduces students to key ideas and texts that will familiarize students with the intellectual shifts in the reading of culture, language and literature in the 20th century and the emergence of Theory and acquaint them with common concepts and notions that, they are likely to encounter in the reading of theory.
		6.3	Nature	1. This paper seeks to explore the process through which language and literature – as manifestations of culture – are produced by the interconnections between both nature and culture; it addresses nature not just as a passive background in literary texts but as a central presence determining the dynamic interpretations of the text itself.
		6.4	Western Mythology: Introducing Classical & Judaeo-Christian Myth	1. This course is an introduction to the study of Classical and Judeo-Christian myth and their recurrence in later social, historical, cultural and literary contexts.
		6.5/6.6	Option A: Indian English Literature	1. The two papers in this Option introduce students to the distinctive literature produced in India in the wake of English education, first under British colonial rule and then after independence.
		Optional Papers	Paper 19: Indian English Literature: Intellectual Contexts	1. This paper aims to provide knowledge of Indian English Literature in its intellectual context.
			Paper 20: Indian Poetry, Fiction and Drama	1. This paper aims to provide knowledge of Indian English Literature with reference to poetry, fiction and drama.



			Option B: American Literature	1. Papers 19 and 20 (Option B) introduce students to the distinctive flavour of American Literature.
			Paper19: Cultural Documents and Poetry	1. In this section students will use the prescribed texts to study the beginnings of the construction of the American self and writer, the issues that vitalize concerns and doubts about themselves, the importance of slavery and the historical erasure of the native American, and of course the confidence and assertions of the American writer.
			Paper20: American Fiction, Autobiography and Drama	1. This paper will introduce students to short examples of fictional and autobiographical writing.
			Option C: Women And Literature	1. Women and Literature I and II seek to familiarize students with literature written by women and to acquaint them with feminist theory so as to make available the necessary interpretive apparatus to read such texts.
			Paper19: Feminist theory and Fiction	1. This paper aims to provide knowledge of different feminist theories with reference to fictional works.
			Paper 20: Women’s Poetry, Journals and Diaries	1. This paper aims to provide knowledge of poetry written by women writers in addition to different journals and diaries.
			Option D: English Language and Linguistics	1. This paper deals with the different aspects of Linguistics including Phonetics and Structural Linguistics.
			Paper19: Linguistics & Sociolinguistics	1. This paper, divided into two sections, seeks to introduce students to Linguistics as the scientific study of language and to familiarize them with its different branches as well as its key concepts.
			Paper 20: History of the English Language	1. In this paper students will be acquainted with the development of the English Language from the Middle



				English period and the various influences which have contributed to make it what it is today.
			Option E: African Literature in English	1. This paper offers an optional course in African literature especially in the field of novels, short stories, poetry and essays.
			Paper19:Novels and Short Stories	1. This paper acquaints students with two novels and three short stories keeping colonial contexts, and strong indigenous components in mind.
			Paper 20:poems and essays	1. This paper deal with different issues like the role of the postcolonial novelist in Africa, African feminism, and the language of African literature.
			Option F:Book into Film	1. This paper aims to show the linkages between the epic-narrative, the notion of story-telling and drama in the two fields, and also indicates how the two contribute to each other in terms of cultural interaction and re-readings.
			Paper 19:Film Theory & Concepts	1. The first paper of this course is designed to introduce students to film theory, narrative techniques and the language of cinema.
			Paper 20:Film Adaptations	1. This paper would have the students analyze the mechanics of adaptation involved in translating the written script/text into the audio-visual.
	BA/B.Sc. (CBCS)	ENG -HC-1016	Indian Classical Literature	1. This paper deals with Indian Classical Literature in English translation. 2. This paper encourages students to think laterally about literatures of the world, and the possibility of cultural exchange.
	DPC (Compulsory)	ENG -HC-1026	European Classical Literature	1.This paper deals with the study of representative texts belonging to the Classical Period of European Literature.



		ENG -HC-2016	Indian Writing in English	1. This paper deals with 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.
		ENG -HC-2026	British Poetry and Drama: 14th to 17th Centuries	1. This paper aims to familiarize the students with the two major forms in British literature from the 14th to the 17th centuries – poetry and drama.
		ENG -HC-3016	American Literature	1. This paper seeks to acquaint the students with the main currents of American literature in its social and cultural contexts.
		ENG -HC-3026	Popular Literature	1. This paper highlights the nature of ‘popular’ literature as a genre.
		ENG-HC-3036	British Poetry and Drama: 17th and 18th Centuries	1. This paper aims to familiarize the students with British literature in the 17th and 18th centuries,
		ENG -HC-4016	British Literature: The 18th Century	1. This paper aims to familiarize the students with British literature in the 18th century with the publication of some of the best novels and works of non-fictional prose and poetry in the English language.
		ENG -HC-4026	British Romantic Literature	1. This paper deals with the texts of British poetry and novel.
		ENG -HC-4036	British Literature: The 19th Century	1.This paper acquaints the students with the works of British poets and novelists of the 19 th century.
		ENG -HC-5016	British Literature: The 20th Century	1.This paper introduces students with the spirit of modernism and postmodernism through a reading of recent poetic and fictional works.
		ENG -HC-5026	Women's Writing	1. This paper seeks to direct the students’ attention to nineteenth and twentieth century



				writings by women living in different geographical and socio cultural settings.
		ENG -HC-6016	Modern European Drama	1. The paper aims at introducing students to the innovative dramatic works of playwrights from different locations in Europe, which taken together represents the wide range of modern drama and its fortunes on the written page and the stage.
		ENG -HC-6026	Postcolonial Literature	1. This paper gives the students an opportunity to acquaint themselves with some of the novels, short stories and poems from postcolonial literatures across the world.
	DSE	ENG -HE-5016	History and English Literature and Forms	1. This paper introduces students to the History of English Literature and the major literary forms.
		ENG -HE-5026	Modern Indian Writing in English Translation	1. This paper attempts to give students an introduction into the diversity of Indian literature written in the regional languages.
		ENG -HE-5036	Literature of the Indian Diaspora	1. This paper delas with the diasporic experience with particular reference to Indian diasporic writers.
		ENG -HE-5046	Nineteenth-Century European Realism	1. This paper deals with the traditions that contributed to the growth and consolidation of European Realism in the nineteenth century.
		ENG -HE-5056	Literary Criticism ans Literary Theory	1. This paper will familiarize students with some important texts on literary criticism and literary theory.
		ENG -HE-5066	Science fiction and Detective Literature	1.This paper tries to explore ways in which new narrative possibilities have emerged due to the human fascination for crime, mystery and improbable occurrences.

PROGRAMME OUTCOME/PROGRAMME SPECIFIC OUTCOME/COURSE SPECIFIC OUTCOME*Of the Programmes/Courses offered by THB College, Jamugurihat under Gauhati University*

		ENG -HE-6016	Literature and Cinema	1. This paper deals with the language of film, signs and syntax.
		ENG -HE-6026	World Literatures	1. This paper deals with the literature all over the world.
		ENG -HE-6036	Partition Literature	1. This paper deals with the literature at the time of partition of India.
		ENG -HE-6046	Travel Writing	1. .This paper deals with the travel writings as interesting genre of literature.
		ENG -HE-6056	Life Writing	1. This paper deals with the life writings as interesting genre of literature.
		ENG -HE-6066	Writing s from North East India	1. This paper deals with the writings of some writers from North East India.
	Generic Elective	ENG -HG-1016	Academic Writing and Composition	1.This paper deals with the Writing Process, the Conventions of Academic Writing, Summarizing and Paraphrasing, Analyses, and Evaluation,etc.
		ENG -HG-1026	The Individual and Society	1. This paper deals with the relationship between individual and society and their representation change in different historical periods of literature.
		ENG -HG-2016	Contemporary India: Women and Empowerment	1. This course aims at the issues of Women's Empowerment with reference to contemporary India.
		ENG -HG-2016	Modern Indian Literatures	1.This paper tries to acquaint the students with various trends of Modern Indian Literature with references to short stories and poems.
		ENG -HG-3016	Language and Linguistics	1.This paper deals with- Language: language and communication; language varieties: standard and non- standard language; language change.
		ENG-HG-3026	British Literature	1. This paper offers a representative sampling of the major literary traditions of British life and culture through a study of texts in different genres.

PROGRAMME OUTCOME/PROGRAMME SPECIFIC OUTCOME/COURSE SPECIFIC OUTCOME*Of the Programmes/Courses offered by THB College, Jamugurihat under Gauhati University*

		ENG -HG-4016	Language, Literature and Culture	1. This paper will introduce students to the relationship between language, literature and Culture with reference to Speech community, Concept of dialect, Register and style, etc.
		ENG -HG-4016	Literary Cross Currents Selections from Living Literatures	1. This paper will acquaint the students with different literary forms and definitions with the help of actual texts.
	SEC	ENG-SE-3014	Film Studies	1. This paper acquaints with the different aspects of Film study with related texts.
		ENG-SE-4014	Translation: Principles and Practice	1. This course is designed to give students basic skills in translation that introduces students to the field of translation studies and gives them training in practical translation.
B.A. English (Regular Course)	CC	ENG-CC-1016	English I	1. The aim of this course (English I and II) is to provide the student an opportunity to read and respond to representations of issues in contemporary life and culture in the English Language.
	DSE	ENG-RC-1016	The Individual and Society	1. This paper examines a key aspect of literary composition – the figure of the individual in her interactions with the society in which she lives. Literary works represent these elements in different ways.
	AECC	AECC	English Communication Skills	1. This paper aims at developing communicative skills of students in the English language.
	CC	ENG-CC-2016	English II	1. This paper gives some ideas about some selective pieces of English poetry along with Grammar and Composition.
	DSE 1B	ENG-RC-2016	Modern Indian Literature	1. The Modern Indian Literatures deals with extensive writings in all genres in many languages.
	CC	ALT-CC-3016	Alternative English I	1. This paper would seek to acquaint students with the major genres of English literature through texts which



				are landmarks of each genre.
	DSE 1C	ENG-RC-3016	British Literature	1. 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.
	SEC-1	ENG-SE-3014	Creative Writing	1.This paper deals with different genres like fiction, non-fiction and poetry in order to build proficiency of students in readings and writings.
	CC	ALT-CC-4016	Alternative English II	1. The course has been designed to familiarise students with different forms of literature, texts and their contexts.
	DSC 1D	ENG-RC-4016	Literary Cross Currents Selections from Living Literatures	1. This paper will acquaint the students with different literary forms and definitions with reference to actual texts.
	SEC-2	ENG-SE-4014	Translation: Principles and Practice	1. This course is designed to give students basic skills in translation with particular emphasis on practical translation.
	DSE-1A	ENG-RE-5016	Soft Skills	1. The purpose of this Course is to equip students with the resources of soft skills so as to develop their overall personality.
	GE-1	ENG-RG-5016	Contemporary India: Women and Empowerment	1. This course provides knowledge on different aspects of Women's Empowerment in India with related texts.
	SEC-3	ENG-SE-5014	Technical Writing	1. This course in Technical Writing aims at equipping the student with the skills of writing with a practical purpose
	DSE-1B	ENG-RE-6016	Academic Writing	1.The aim of this paper is to develop academic writing skills of the students.
	GE-2	ENG-RG-6016	Cultural Diversity	1. This paper deals with rich cultural diversity from different locations of the world with related texts.
	SEC-4	ENG-SE-6014	Business Communication	1.This paper seeks to enrich the students' knowledge on business communication and its importance in the



professional world.

EDUCATION

Programme: BA (Major & General)

A. Programme outcome:

The B.A. Major and General programme in Education was implemented by Gauhati University w.e.f 2011-2012 academic session. The undergraduate degree (UG) Programme in CBCS which was reformed by Gauhati University from the session 2019-2020 spread across six semesters having Honours and Regular courses. The major outcomes of the subject Education are as follows.

- a. The major outcome of the course includes providing knowledge to students regarding different aspects of education which includes principles of education, sociology of education, measurement and statistics in education, educational technology, environmental and population education, emerging issues in education.
- b. Students of major course are also given knowledge of philosophy of education, teacher education, knowledge about different educational thinkers, developmental psychology, continuing and distance education, special education, guidance and counselling and educational management and administration.
- c. Knowledge of experimental psychology and laboratory experiments are provided at different part of semesters.
- d. Project work provides students knowledge about creative thinking and problem solving capacity, working capacity in individual and in groups, preparation and presentation of papers at different situations.
- e. The skill enhancement course like public speaking, writing bio data and facing an interview give practical knowledge to students.
- f. Women in society, human rights education, mental health and hygiene etc. provide students knowledge about different issues of education for social development.



B. Programme Specific/Course specific Outcome:

Programme	CBCS/Non-CBCS	Course code	Title of the course	Programme outcome
UG (Education)	BA (Non-CBCS)	G 101	Foundation of Educational Theories and Principles	<ol style="list-style-type: none"> 1. To be acquainted with scientific and sound principles and theories of education. 2. To understand the concept, nature and scope of education. 3. To gain knowledge about aims of education. 4. To know the dimensions of education, discipline and freedom in education and modern trends in education.
		G 201	Educational Psychology	<ol style="list-style-type: none"> 1. To make the students understand the relationship between education and psychology. 2. Explain the need of educational psychology in teaching learning process. 3. Understand the concept of motivation, memory, attention and interest 4. Understand the concept of intelligence, personality and adjustment mechanism.
		G 301	Development of education in India	<ol style="list-style-type: none"> 1. To acquaint the students with the Ancient and Medieval system of education in India. 2. Knowledge about the development of education in India during the British period. 3. Examine and analyse the education system in India after independence. 4. Knowledge on development of education in Assam.
		G 401	Sociological foundations of	<ol style="list-style-type: none"> 1. To acquaint the students with education as a social process.



			Education	<ol style="list-style-type: none"> 2. Understand social change and development. 3. Develop social habits and attitudes to make them socially adjustable.
		G 501	Emerging Issues And Education	<ol style="list-style-type: none"> 1. To acquaint the learner with emerging issues in education. 2. To develop in students basic understanding regarding students' indiscipline. 3. Develop awareness and understanding about literacy programme, women empowerment, human rights, and globalisation of education. 4. Knowledge of national integration and international understanding.
		G 502	Educational Measurement And Educational Statistics	<ol style="list-style-type: none"> 1. To help the students to acquire knowledge of the concept of measurement and evaluation in education. 2. Knowledge and use of different types of educational tests. 3. Construction of educational and psychological tests. 4. Knowledge of application of statistics in education
		G 601	Educational Technology	<ol style="list-style-type: none"> 1. To acquaint the students to understand the concept, scope and objectives of educational technology. 2. To make the students understand the teaching, instructional and behavioural technology. 3. Use of computer and internet in educational technology.
		G 602	Environmental And Population Education	<ol style="list-style-type: none"> 1. To enable the students to understand the concept, scope, importance of environmental education. 2. Understand the programmes of environmental education at different levels of education. 3. To enable the students to understand the effect of population growth on poverty, health and hygiene. 4. Understand the importance of population education in school levels.
		M 101	Foundation of Educational Theories	<ol style="list-style-type: none"> 1. To be acquainted with scientific and sound principles and



			and Principles	<p>theories of education.</p> <ol style="list-style-type: none"> To understand the concept, nature and scope of education. To gain knowledge about aims of education. To know the dimensions of education, discipline and freedom in education and modern trends in education. Knowledge of latest trend and current educational thoughts
		M 102	Educational Psychology	<ol style="list-style-type: none"> To make the students understand the relationship between education and psychology. Explain the need of educational psychology in teaching learning process. Understand the concept of motivation, memory, attention and interest Understand the concept of intelligence, personality and adjustment mechanism. Understand the concept of adjustment process and mental health and hygiene.
		M 201	Development of Education in India	<ol style="list-style-type: none"> To acquaint the students with the Ancient and Medieval system of education in India. Knowledge about the development of education in India during the British period. Examine and analyse the education system in India after independence. Knowledge on development of education in Assam.
		M 202	Sociological Foundations of Education	<ol style="list-style-type: none"> To acquaint the students with education as a social process. Understand social change and development. Develop social habits and attitudes to make them socially adjustable.
		M 301	Emerging Issues And Education	<ol style="list-style-type: none"> To acquaint the learner with emerging issues in education. To develop in students basic understanding regarding students' indiscipline.



				<ol style="list-style-type: none"> 3. Develop awareness and understanding about literacy programme, women empowerment, human rights, globalisation of education. 4. Knowledge of national integration and international understanding. 5. To acquaint the students with means of life skill education and programmes of peace education.
		M 302	Measurement and Evaluation in Education	<ol style="list-style-type: none"> 1. To help the students to acquire knowledge of the concept of measurement and evaluation in education. 2. Knowledge and use of different types of educational tests. 3. Construction of educational and psychological tests. 4. Knowledge of intelligence test, personality test, aptitude, interest and aptitude test and educational achievement test. 5. Understand about the new trends of evaluation.
		M 401	Education Technology	<ol style="list-style-type: none"> 1. To acquaint the students to understand the concept, scope and objectives of educational technology. 2. To make the students understand the teaching, instructional and behavioural technology. 3. Use of computer and internet in educational technology. 4. Knowledge of innovations in education through educational technology- team teaching, e-learning and e- library.
		M 402	Environmental and Population Education	<ol style="list-style-type: none"> 1. To enable the students to understand the concept, scope, importance of environmental education. 2. Understand the programmes of environmental education at different levels of education. 3. To enable the students to understand the effect of population growth on poverty, health and hygiene. 4. Understand the importance of population education in school levels.



		M 501	Philosophy of Education	<ol style="list-style-type: none"> 1. To acquaint with the relationship between philosophy and education. 2. Knowledge about the three major philosophies of education-idealism, naturalism and pragmatism. 3. To familiarises with the Indian schools of philosophical thoughts – Vedic, Buddhist and Islamic thoughts.
		M 502	Educational Thinkers-Oriental and Occidental	<ol style="list-style-type: none"> 1. To enable the students to understand the philosophy of life of different educational thinkers and their contribution to present day educational thoughts. 2. To enable students to learn about the views of western and Indian thinkers on aim , curriculum, methods of teaching, discipline and role of teacher.
		M 503	Teachers' Education	<ol style="list-style-type: none"> 1. To acquaint the learner with the concept , aims, scope and development of teacher education in India. 2. Knowledge of teacher education programmes. 3. Knowledge of skilled based and competency based teacher education, professional ethics and accountability of teachers. 4. Knowledge of different organizations involving in teacher education.
		M 504	Teaching Learning Method and Pedagogy	<ol style="list-style-type: none"> 1. To acquaint the students with the teaching learning process, principles, maxims of teaching, methods and devices of teaching. 2. Knowledge of levels, strategies and models of teaching 3. Knowledge of teaching effectiveness and classroom management. 4. Develop positive attitudes towards the teaching profession.
		M 505	Statistics In Education	<ol style="list-style-type: none"> 1. To enable the students to understand the basic concept of statics and different statistical procedures used in education.



				<ol style="list-style-type: none"> 2. To give detail knowledge about descriptive statistics. 3. To familiarised the students about normal probability curve and its application in education
		M 506	Practical Paper	<ol style="list-style-type: none"> 1. To enable the students to understand the concept of experimental psychology. 2. To understand the methods of conducting various psychological experiments and tests. 3. To develop the scientific attitudes among students.
		M 601	Developmental Psychology	<ol style="list-style-type: none"> 1. To enable the students to understand the basic concepts relating to development. 2. Knowledge of heredity and environmental factors affecting pre- natal development. 3. Understand the developmental aspects during infancy, childhood and adolescence.
		M 602	Continuing Education And Distance Education	<ol style="list-style-type: none"> 1. To enable the students to understand the concept, methods and techniques of continuing education. 2. Understand the development of adult education in India, kinds of adult education programme and its major problems. 3. Understand the meaning, characteristics, merits and demerits of distance education and its growth in India. 4. Knowledge of different forms of instructional strategies in distance education.
		M 603	Special Education	<ol style="list-style-type: none"> 1. To help the students to understand the meaning and importance of special education. 2. Knowledge of different Government policies and legislations regarding persons with disabilities. 3. Knowledge of different types of special children with their behavioural characteristics. 4. Knowledge of different issues, educational provisions and support services for special children.



		M 604	Guidance And Counselling	<ol style="list-style-type: none"> 1. To enable the students to understand the concept, nature, scope , need and importance and types of guidance. 2. Understand about the different type of guidance programmes and their organization. 3. Understand the meaning, nature and objective, need and importance, types, steps and techniques of counselling. 4. Understand the relationship between guidance and counselling, role of school counsellor and qualities of a good counsellor.
		M 605	Educational Management And Administration	<ol style="list-style-type: none"> 1. To enable the students to understand the basic concepts of management , organization and administration. 2. Knowledge of types, principles and functions of educational management. 3. Knowledge of educational supervision, institutional planning and educational administrative structure of India in general and Assam in particular.
		M 606	Project Work	<ol style="list-style-type: none"> 1. To enable the students to understand the process of conducting a project in educational perspective. 2. To develop problem solving capacity and creative thinking among students.
	BA (CBCS)	EDU-RC-1016	Foundation of Education	<ol style="list-style-type: none"> 1. Students will be acquainted with the principles, aims and forms of education. 2. Students will understand the concept and importance of discipline and freedom. 3. Students will have knowledge of national integration and international understanding.
		EDU-RC-2016	Psychology of Adolescents	<ol style="list-style-type: none"> 1. Students will understand the significance of adolescence period in human life.



				2. Students will understand the developmental aspects of adolescence and its associated problems.
		EDU-RC-3016	Guidance And Counselling	<ol style="list-style-type: none"> 1. To enable the students to understand the concept, nature, scope , need and importance and types of guidance. 2. Understand about the different type of guidance programmes and their organization. 3. Understand the meaning, nature and objective, need and importance, types, steps and techniques of counselling. 4. Understand the relationship between guidance and counselling, role of school counsellor and qualities of a good counsellor.
		EDU-RC-4016	History of Education in India	<ol style="list-style-type: none"> 1. Analysis the education system during british period . 2. Understand the educational situation during the times of independence. 3. Discuss the different educational commissions and committees, recommendations about the education system of india. 4. Analysis the different national policies on education and recent educational development in India.
		EDU-RE-5016/	Distance Education/	
		EDU-RE-5026	Developmental Psychology	<ol style="list-style-type: none"> 1. 1. To enable the students to understand the basic concepts relating to development. 2. Knowledge of heredity and environmental factors affecting pre- natal development. 3. Understand the developmental aspects during infancy, childhood and adolescence.
		EDU-RE-5036/	Women and Society	<ol style="list-style-type: none"> 1. Know the changing role of women in India. 2. Understand gender discrimination in Indian society. 3. Understand the constitutional provisions for women and their



				rights. 4. Make the students understand the women empowerment and develop awareness and sensitivity towards women
		EDU-RE-5046	Continuing Education	1. Know the concept, objectives, scope and significance of continuing education in the context of present scenario. 2. Agencies of continuing education 3. Methods, techniques of continuing education.
		EDU-RE-6016/	Mental health and Hygiene	1. Acquaint with the fundamentals and development of mental health and characteristics of mentally healthy persons. 2. Concept and importance of mental hygiene and its relationship with mental health. 3. Meaning and problems of adjustment and also the different adjustment mechanism. 4. Familiarised with the concept and issues of positive physiology Mental health of women , role of WHO and stress management
		EDU-RE-6026	Special Education	1. To help the students to understand the meaning and importance of special education. 2. Knowledge of different Government policies and legislations regarding persons with disabilities. 3. Knowledge of different types of special children with their behavioural characteristics. Knowledge of different issues, educational provisions and support services for special children.
		EDU-RE-6036/	Human Right Education/	1. Basic concept, nature and scope of human rights. 2. Meaning, nature, principles, curriculum and teaching methods of human rights education at different levels of education. 3. Know the role of united nations on human rights. Know the role of advocacy groups
		EDU-RE-6046	Human Right Education/	1. Basic concept, nature and scope of human rights. 2. Meaning, nature, principles, curriculum and teaching methods



				of human rights education at different levels of education. 3. Know the role of united nations on human rights. Know the role of advocacy groups
	Generic Elective (GE)	EDU-RG-5016	Continuing Education	1. Know the concept, objectives, scope and significance of continuing education in the context of present scenario. 2. Agencies of continuing education Methods, techniques of continuing education.
		EDU-RG-6016	Mental health and Hygiene	1. Acquaint with the fundamentals and development of mental health and characteristics of mentally healthy persons. 2. Concept and importance of mental hygiene and its relationship with mental health. 3. Meaning and problems of adjustment and also the different adjustment mechanism. 4. Familiarised with the concept and issues of positive physiology 5. Mental health of women , role of WHO and stress management.
	Skill Enhance ment Course (SEC)	EDU-SE-3014	Public Speaking Skill	To acquire the capacities of public speaking skill.
		EDU-SE-4014	Writing Bio Data and facing an interview	1. To write a bio-data scientifically. 2. To develop confidence to face different types of interview.
		EDU-SE-5014	Extension Activities	Not included in CBCS Syllabus
		EDU-SE-6014	Developing Teaching Skill	Not included in CBCS Syllabus
	Ability Enhance ment	EDU-HC-1016	Principles of Education	1. To know the students with the concept of education, curriculum, democracy, discipline and freedom. 2. To give knowledge about different aims of education,



	Course (AEC)			<p>curriculum, co-relation of studies, discipline and freedom etc.</p> <p>3. To provide knowledge about democratic idea of modern education.</p>
		EDU-HC-1026	Psychological foundation of Education and Laboratory Practical	<p>1. To make the students understand the relationship between education and psychology.</p> <p>2. Explain the need of educational psychology in teaching learning process.</p> <p>3. Understand the concept of motivation, memory, attention and interest</p> <p>4. Understand the concept of intelligence, personality and adjustment mechanism.</p>
		EDU-HC-2016	Philosophical and Sociological Foundations of Education	<p>1. Know the concept of philosophy and its relationship with education.</p> <p>2. Understand the educational implications of different Indian as well as Western schools of philosophy.</p> <p>3. Know the concept of sociology, educational sociology, social groups and socialisation process.</p>
		EDU-HC-2026	Development of Education in India - I	<p>1. Recount the concept of Ancient Indian Education System.</p> <p>2. Examine and analyse the education system in Ancient India, Medieval India and British India.</p>
		EDU-HC-3016	Development of education in india - II	<p>1. Examine and analyse the education system in India after independence.</p> <p>2. Analyse the historical development of Primary, Secondary, Higher education in India.</p>
		EDU-HC-3026	Educational Technology and Teaching Practice	<p>1. Make the students to understand the objectives of educational technology in teaching learning process.</p> <p>2. Understand about various methods and devices of teaching.</p> <p>3. Understand the strategies of effective teaching.</p>
		EDU-HC-	Value and Peace Education	<p>1. Understand the concept and meaning of value.</p>



		3036		<ol style="list-style-type: none"> 2. Understand the meaning and concept of peace and its importance in human life. 3. Understand about the role of education building value base education and its impact in society.
		EDU-HC-4016	Great Educational Thinkers	<ol style="list-style-type: none"> 1. Enable the students to learn the philosophy of life of different educational thinkers and their works. 2. Students will learn about the views of thinkers in educational context. 3. Students will learn about relevance of some of their thoughts at present day context.
		EDU-HC-4026	Educational Statistics and Practical	<ol style="list-style-type: none"> 1. Develop the basic concepts of statistics and different statistical procedures used in education. 2. Students can understand about the normal probability curve and its application in education.
		EDU-HC-4036	Emerging Issues in Education	<ol style="list-style-type: none"> 1. To acquaint the learner with emerging issues in education. 2. To develop in students basic understanding regarding students' indiscipline. 3. Develop awareness and understanding about literacy programme, women empowerment, human rights, globalisation of education. 4. Knowledge of national integration and international understanding. 5. To acquaint the students with means of life skill education and programmes of peace education. 6. Address the various problems and challenges of education in India at all levels.
		EDU-HC-5016	Measurement and Evaluation in Education & Laboratory Practical	<ol style="list-style-type: none"> 1. Students can understand the concept of measurement and evaluation in education. 2. Students acquire the knowledge, procedure of test



				<p>construction and characteristics of good test.</p> <ol style="list-style-type: none"> 3. Develop an understanding different types of educational test and their uses. 4. Students can acquire the personality test and aptitude test.
		EDU-HC-5026	Women and Society	<ol style="list-style-type: none"> 1. Know the changing role of women in India. 2. Understand gender discrimination in Indian society. 3. Understand the constitutional provisions for women and their rights. 4. Make the students understand the women empowerment and develop awareness and sensitivity towards women
		EDU-HC-6016	Educational Management	<ol style="list-style-type: none"> 1. To enable the students to understand the basic concepts of management , organization and administration. 2. Knowledge of types, principles and functions of educational management. 3. Knowledge of educational supervision, institutional planning and educational administrative structure of India in general and Assam in particular.
		EDU-HC-6026	Education and Development	<ol style="list-style-type: none"> 1. Relation between education and development 2. Educational development in the post globalization era. 3. Role of education in community development and human resource development 4. Economic and political awareness through education.
	Discipline Specific Elective Papers (DSE)	EDU-HE-5016	Distance Education	<p>.</p> <p>Not included in CBCS Syllabus</p>
		EDU-HE-5026	Developmental Psychology	<ol style="list-style-type: none"> 1. To enable the students to understand the basic concepts relating to development. 2. Knowledge of heredity and environmental factors affecting



				<p>pre- natal development.</p> <p>3. Understand the developmental aspects during infancy, childhood and adolescence.</p>
		EDU-HE-5036	Human Right Education	<p>1. Basic concept, nature and scope of human rights.</p> <p>2. Meaning, nature, principles, curriculum and teaching methods of human rights education at different levels of education.</p> <p>3. Know the role of united nations on human rights.</p> <p>4. Know the role of advocacy groups.</p>
		EDU-HE-5046	Teacher Education in India	<p>1. Concept, scope , aims and objective and significance of education.</p> <p>2. Development of teacher education in India.</p> <p>3. Innovative trends and recent issues in teacher education in India.</p> <p>4. Qualities, responsibilities and professional ethics of teacher</p>
		EDU-HE-6016	Guidance And Counselling	<p>1. To understand the concept , need and importance of guidance and counselling.</p> <p>2. Types of guidance and counselling</p> <p>3. Organization of guidance service and school guidance clinic.</p>
		EDU-HE-6026	Special Education	<p>1. To help the students to understand the meaning and importance of special education.</p> <p>2. Knowledge of different Government policies and legislations regarding persons with disabilities.</p> <p>3. Knowledge of different types of special children with their behavioural characteristics.</p> <p>4. Knowledge of different issues, educational provisions and support services for special children.</p>
		EDU-6036	Project	<p>1. To enable the students to understand the process of conducting a project in educational perspective.</p>



				<ol style="list-style-type: none"> 2. To develop problem solving capacity and creative thinking among students. 3. To develop the skill of preparing a project report.
	Generic Elective (GE)	EDU-HG-1016	Foundation of Education	<ol style="list-style-type: none"> 1. Students will be acquainted with the principles, aims and forms of education. 2. Students will understand the concept and importance of discipline and freedom. 3. Students will have knowledge of national integration and international understanding.
		EDU-HG-2016	Psychology of Adolescents	
		EDU-HG-3016	Guidance And Counselling	<ol style="list-style-type: none"> 1. To understand the concept , need and importance of guidance and counselling. 2. Types of guidance and counselling 3. Organization of guidance service and school guidance clinic.
		EDU-HG-4016	History of Educatin in India	<ol style="list-style-type: none"> 1. Analysis the education system during british period . 2. Understand the educational situation during the times of independence. 3. Discuss the different educational commissions and committees, recommendations about the education system of india. 4. Analysis the different national policies on education and recent educational development in India.
	Skill Enhance ment Course (SEC)	EDU-SE-3014	Public Speaking Skill	To train students to acquire the capacities of public speaking skill.
		EDU-SE-4014	Writing BioData and facing an interview	<ol style="list-style-type: none"> 1. To write a bio-data scientifically. 2. To develop confidence to face different types of interview.



ECONOMICS

Programme: B.A./BSc. (Major & General)

A. PROGRAMME OUTCOME:

The department of economics offers BA and BSc. in both major and General. Overall programme as envisaged in the affiliating university's curriculum are the following:

1. The course will give students sufficient quantitative skill to apply in other fields of economics and analyse theories in an empirical context.
2. The course will help students to understand disparity in terms of economic development and income inequality.
3. The course will help students to understand underpinning of Indian economy, India's planning process.
4. The programme aims at building students to be competent in acquiring skill to grab jobs as per the market requirement.
5. The programme aims at broadening students' understanding on efficient use of resources.
6. Knowledge in the handling of statistical tools like averages, variability, correlation, regression, probability etc. helps students to gather knowledge to excel in research etc.

B. PROGRAMME SPECIFIC OR COURSE SPECIFIC OUTCOME

Programme	CBCS/Non-CBCS	Course code	Title of the course	Outcome
UG (Economics)	BA (Non-CBCS)	M-104	Microeconomics I	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be



				<p>on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations. The course also provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm</p>
		M-105	Macroeconomics I	<p>This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like , GDP, employment etc. This course also introduces the students to formal modelling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run,</p>



				and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy
		M-204	Microeconomics II	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations. This course also provides the student an analytical tool for financial management which help them to deal with a company in future.
		M-205	Macroeconomics II	This course aims to introduce the students to the concepts of Macroeconomics that deals with the aggregate economy. This course discusses the concepts associated with the determination and measurement of aggregate macroeconomic variable like, saving and investment, money, inflation, business cycle, etc.
		M-304	Elementary Mathematics for Economics	This course deal with the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course,



				particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.
		M-305	The Monetary System	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector
		M-404	Mathematical Applications In Economics	This course is basically deals with the application of Mathematics in Economics that deals with various economic theory such as consumer surplus, producer surplus etc.
		M-405	Instructions to Development Economics	The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can



				<p>help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.</p>
		M-501	<p>Elements of Public Finance</p>	<p>This course deals with various basic concepts of public concepts such as public revenue, public expenditure , public debt etc with special reference to India</p>
		M-502	<p>Basic Statistics(for BA)/Introduction to Econometrics(for BSc)</p>	<p>This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. Also this course offer correlation analysis to establish relation between economic variables/ This Course detailed on sampling techniques used to collect survey data. The course introduces the notion of</p>



				sampling distributions that act as a bridge between probability theory and statistical inference. Regression analysis is discussed also economics application of it is analyses in this course through OLS.
		M-503	Introduction to Environmental Economics	This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Simultaneously this course also deals with various global environmental issues such as global warming, climate change etc.
		M-504	International Trade and Policy	This course develops a systematic exposition of models that try to explain the basis of international trade and consequences of international trade on production, consumption and distribution. This course also helps the students to understand the determinants and effects of trade policy.
		M-505	History Economics Thought I	This course deals with early classical period ,the classical economics and some early socialist's thoughts and this will enable the students to know about the history of various



				economic theory and background .
		M-506	Policy And The Indian Economy	This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. Given the rapid changes taking place in the country this course give enough support to the student to know about the various challenges faced by industrial, agricultural sector in India
		M-601	Public Economics	This course is non-technical overview of government finance with special reference to India. This course will be useful for students aiming towards career in the government sector, policy analysis and journalism since this course includes the broad aspects of taxation, the various issues of fiscal federalism and various local and central government issues
		M-602	Applied Statistics (for BA)/ Econometric Methods(for BSc)	This course is very practical in nature and deal with the index number, time series, vital statistics and sample survey. It gives the students to know about the how change in price in an economy takes place and how it is measured. Using time series analysis this course also



				<p>enables the student to read data and draw conclusions. Further a demographic chapter that deal with how to measure fertility and mortality. At last a chapter which explain the how to collect data and process it which gives the light to the students how to deal with the practical world through data analysis./</p> <p>This course is a practical application of economics through various cross section and time series data. This course process with data analysis and problem detection and their remedies .</p>
		M-603	Economics of Natural resources and sustainable Development	<p>This course is related to the two broad types of goods-renewable and non-renewable natural resources and their sustainable uses by the human being. This course concludes by development environment trade off.</p>
		M-604	International Economics	<p>The students will able to understand the monetary theory of international trade that includes balance of payments, determination of exchange rate, various trade unions etc. The course concludes by explaining various international institutions like IMF, IBRD and WTO etc.</p>



		M-605	History of Economics Thought II	This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy the wider colonial context, and the mechanisms that linked economic development in India to the compulsion of colonial rule.
		M-606	Planning for Development: India And The Northeast	This course tries to explain the necessity of planning and goals and achievement of the same in India and global economic policy and their importance in Indian context , trend and composition of foreign trade etc. This course concludes with the some basic problems of the NE region relate to industry and agriculture.
		E-101	Elementary Micro Economics	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations. The course also provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous



				semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm
		E-201	Introductory Macro Economics	This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like , GDP, employment etc. This course also introduces the students to formal modelling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination.
		E-303	Money,Banking and Finance	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector
		E-403	Indian Economy with Issues of	This course tries to explain the necessity of planning and



			North-East	goals and achievement of the same in India and global economic policy and their importance in Indian context , trend and composition of foreign trade etc. This course concludes with the some basic problems of the NE region relate to industry and agriculture. This course give stress more on Assam economy.
		E-503	Public Finance	This course deals with various basic concepts of public concepts such as public revenue, public expenditure , public debt etc with special reference to India
		E504	Introduction To growth And Development Economics	The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state



				governance.
		E-603	International Economics	The students will be able to understand the monetary theory of international trade that includes balance of payments, determination of exchange rate, various trade unions etc. The course concludes by explaining various international institutions like IMF, IBRD and WTO etc
		E-604	Planning And Development in India	This course tries to explain the necessity of planning and goals and achievement of the same in India and global economic policy and their importance in Indian context , trend and composition of foreign trade etc. Further some topics on –decentralised planning in Assam, role of NEC are also provided.
	BA (CBCS)Honours	ECO HC 1016	Introductory Microeconomics	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.
		ECO HC 1026	Mathematical Methods for Economics-I	This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at



				<p>the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.</p>
		ECO HC 2016	Introductory Macroeconomics	<p>This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.</p>
		ECO HC 2026	Mathematical Methods for Economics-II	<p>This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The objective of this sequence is to transmit the body of basic mathematics that enables</p>



				<p>the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.</p>
		ECO HC 3016	Intermediate Microeconomics-I	<p>The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.</p>
		ECO HC 3026	Intermediate Macroeconomics-I	<p>This course introduces the students to formal modeling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment</p>



				determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an openeconomy.
		ECO HC 3036	Statistical Methods for Economics	This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. The semester concludes with some topics in statistical inference that include point and interval estimation.
		ECO HC 4016	Intermediate Microeconomics-II	This course is a sequel to Intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare,



				imperfect markets and topics under information economics
		ECO HC 4026	Intermediate Macroeconomics-II	This course is a sequel to Intermediate Macroeconomics I. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.
		ECO HC 4036	Introductory Econometrics	This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.
		ECO HC 5016	Indian Economy-I	Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually.
		ECO HC	Development Economics-I	This is the first part of a two-part course on economic



		5026		development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.
		ECO HC 6016	Indian Economy-II	This course examines sector-specific policies and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. Given the rapid changes taking place in the country, the reading list will have to be updated annually.
		ECO HC 6026	Development Economics-II	This is the second module of the economic development sequence. It begins with basic demographic concepts and



				<p>their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.</p>
	GENERIC ELECTIVE	ECO HG 1016	Principles of Microeconomics-I	<p>This course intends to expose the student to the basic principles in Microeconomic Theory and illustrate with applications.</p>
		ECO HG 2016	Principles of Microeconomics-II	<p>This is a sequel to Principles of Microeconomics covered in the first semester. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers market structure and welfare, imperfect markets and topics under information economics.</p>
		ECO HG 3016	Principles of Macroeconomics-I	<p>This course introduces students to the basic concepts in Macroeconomics. Macroeconomics deals with the aggregate economy. In this course the students are</p>



				introduced to the definition, measurement of the macroeconomic variables like GDP, consumption, savings, investment and balance of payments. The course also discusses various theories of determining GDP in the short run.
		ECO HG 4016	Principles of Macroeconomics-II	This is a sequel to Principles of Macroeconomics-I. It analyses various theories of determination of National Income in greater detail. It also introduces students to concept of inflation, its relationship with unemployment and some basic concepts in an open economy.
	SKILL ENHANCEMENT COURSE	ECO SE 3014	Data Collection and Presentation	This course helps students in understanding use of data, presentation of data using computer softwares like MS-Excel. Students will be involved practically to preparation of questionnaires/interview schedules, collection of both primary and secondary data and its presentation. Students will also be asked to prepare a report on collected data and will be evaluated accordingly.
		ECO SE 4014	Data Analysis	This course discusses how data can be summarized and analysed for drawing statistical inferences. The students will be introduced to important data sources that are



				available and will also be trained in the use of statistical softwares like SPSS/PSPP to analyse data.
	DISCIPLINE SPECIFIC ELECTIVE COURSES	ECO HE 5016	Economics of Health and Education	The importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases. This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.
		ECO HE 5026	Money and Financial Markets	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms



				and monetary policy with special reference to India are also covered.
		ECO HE 5036	Public Finance	This course is a non-technical overview of government finances with special reference to India. The course does not require any prior knowledge of economics. It will look into the efficiency and equity aspects of taxation of the centre, states and the local governments and the issues of fiscal federalism and decentralisation in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.
		ECO HE 6016	Environmental Economics	This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and



				environmental impact assessments. Selected topics on international environmental problems are also discussed.
		ECO HE 6026	International Economics	This course develops a systematic exposition of models that try to explain the composition, direction and consequences of international trade, and the determinants and effects of trade policy. It then builds on the models of open economy macroeconomics developed in courses 08 and 12, focusing on national policies as well as international monetary systems. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.
	REGULAR COURSE	ECO RC 1016	Principles of Microeconomics-I	This course intends to expose the student to the basic principles in Microeconomic Theory and illustrate with applications. This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be



				applied to analyze real-life situations.
		ECO RC 2016	Principles of Microeconomics-II	This is a sequel to Principles of Microeconomics covered in the first semester. Course. This course will help the student to understand the market structure and its practical application and how to determine the prices of factors of production .
		ECO RC 3016	Principles of Macroeconomics-I	This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP in short run.
		ECO RC 4016	Principles of Macroeconomics-II	This is a sequel to Principles of Macroeconomics–I. It analyses various theories of determination of National Income in greater detail. It also introduces students to concept of inflation, its relationship with unemployment and some basic concepts in an open economy.
	DISCIPLINE SPECIFIC ELECTIVE COURSES	ECO RE 5016	Economic Development and Policy in India-I	This course reviews major trends in aggregate economic indicators in India and places these against the backdrops of major policy debates in India in the post independence



				periods
		ECO RE 5026	Money and Banking	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.
		ECO RE 5036	Environmental Economics	This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis. Environmental problems issues from the Indian and international context (especially global warming) are used to illustrate the concepts and methods presented in the course. This course will be useful for students aiming towards careers in the government sector, policy analysis, business, journalism and international organisations.
		ECO RE	Economic Development and	This course examines sector specific trends in key



		6016	Policy in India-II	indicators and their implications in the post independence period.
		ECO RE 6026	Economic History of India1857-1947	This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it investigates the place of the Indian economy the wider colonial context, and the mechanisms that linked economic development in India to the compulsion of colonial rule.
		ECO RE 6036	Public Finance	This course is non-technical overview of government finance with special reference to India. This course will be useful for students aiming towards career in the government sector, policy analysis and journalism since this course includes the broad aspects of taxation, the various issues of fiscal federalism and various local and central government issues.
	GENERIC ELECTIVE	ECO RG 5016	Economic Development and Policy in India- I	This course reviews major trends in aggregate economic indicators in India and places these against the backdrops of major policy debates in India in the post independence periods
		ECO RG	Economic Development and	This course examines sector specific trends in key



		6016	Policy in India-II	indicators and their implications in the post independence period.
--	--	------	--------------------	--

HISTORY

Programme: BA (Major & General)

A. PROGRAMME OUTCOME:

- The Course enhances the student’s knowledge of historical methodologies and gives them clear concept of writing an objective history.
- The Course provides students knowledge of Assam History portraying different socio-political and economic and cultural life from the very beginning to modern times.
- The Course enables the students the knowledge of different socio-political and economic structure and religious life in different periods of Indian History (i.e. ancient, medieval and modern period).
- After the study of historical Tourism, students will be able to explain the importance of tourism in Assam and importance of historical places in Assam.
- After the study of Oral Culture and Oral History, Students will be able to use ‘Public Memory’ as a tool or source not only to write History but to gain Knowledge.
- The Project Paper in the Course enables the students to inherit the qualities to write a good dissertation with clear concept of review of literature, foot notes, bibliography etc which will help them near future.

B. PROGRAMME SPECIFIC/COURSE SPECIFIC OUTCOME:

Programmes	CBCS/Non CBCS		Title of the course	Programme outcome
UG (History)	BA (Non-CBCS)	M101	Introduction to History	<ul style="list-style-type: none"> • The course provides students the knowledge of meaning and widening scope of history



				<ul style="list-style-type: none"> • The course impart knowledge regarding different method of writing history
		102	History of India(upto A.D. 300)	<ul style="list-style-type: none"> • The course deals with the socio-economic and political condition of ancient India.
		203	History of India(300-1200 A.D)	<ul style="list-style-type: none"> • Students will study the different agrarian structure and art and architecture alongwith political scenario in ancient and early medieval India
		204	History of Ancient Civilizations of the World	<ul style="list-style-type: none"> • The study of ancient civilization of world provides students deep knowledge about various civilization all over world .
		305	India under the Turko- Afghans	<ul style="list-style-type: none"> • Students will gain knowledge about the history of formation of Sultanate Dynasty in India. • The Course highlights the beginning of medieval age with change in agrarian and socio-economic structure.
		306	History of Assam (5 th Century A.D. To 1228)	<ul style="list-style-type: none"> • The Course attempts to provide knowledge of ancient history of Assam from 5th century to 1228 A.D
		407	India under thr Mughals	<ul style="list-style-type: none"> • The Study of this course provides students immense knowledge about Mughal dynasty, administration, and trade and commerce. • This course also provides history of rise and fall Maratha power.
		408	History of Europe (1453-1789)	<ul style="list-style-type: none"> • The Study of History of Europe imparts immense knowledge of all the events which led to transition from Medieval to Modern Age in Europe



		509	India under the East-India Company	<ul style="list-style-type: none"> • The course India under the East India Company insights socio-political and economic changes in mid-eighteenth century. • The course provides knowledge of changes of British expansion policy in India. • The Course interprets the history of some popular resistance to Company's rule.
		510	History of Assam (1228-1826)	<ul style="list-style-type: none"> • The students learns from the course history of Assam(1228-1826), the political condition of the Brahmaputra Valley at the beginning of the 13th century with the formation of Ahom dynasty • The Course insights the knowledge Mughal invasion and Ahom resistance. • The Course interprets the history of Momarian rebellion, Burmese invasion and dissension in Western Assam. • The students enables to learn about the political institutions, society, economy and religion of medieval Assam
		511	History of Europe (1789-1870)	<ul style="list-style-type: none"> • The Course History of Europe(1789-1870) interprets students an overall knowledge of Europe's political and social life. • The Course provides significant knowledge of rise and fall of Napoleon. • The Course imparts the history of unification Italy and Germany.
		512	History of Science and Technology in Pre- Colonial India	<ul style="list-style-type: none"> • The Course provides immense knowledge of different technologies of using stone in Stone Age. • The Course provides history of technology in



				<p>Bronze and Iron Age.</p> <ul style="list-style-type: none"> • The Course imparts the knowledge of early developments of science in India • The Course provides knowledge of technological developments in Medieval period in different sector.
		513	History of Great Britain (1485-1820)	<ul style="list-style-type: none"> • The Course History of Great Britain (1485-1820) helps students to learn about Tudor Dynasty in England. • The Course interprets the knowledge of political changes in England under Stuart dynasty rule..
		514	History of China (1839-1949)	<ul style="list-style-type: none"> • The Course History of China (1839-1949) enables students to learn the condition of China before the advent of the imperialist powers. • The Course provides the history of opening of China . • The Course provides the knowledge popular reform movements in China. • The Course also provides the history of emergence of Nationalism and Growth of Communism in China.
		615	India under the Crown	<ul style="list-style-type: none"> • The Course imparts the knowledge of British Administrative changes after the Revolt of 1857. • The Course provides the history of cultural awakening in the 19th century. • The Course insights the knowledge of nationalism in India and national movement against the British Rule. • The Course provides the significant knowledge about how India attained Independence.



		616	History of Assam (1826-1947)	<ul style="list-style-type: none"> • The Course provides the knowledge of history of Assam after the advent of the British . • The Course helps students to learn about British Territorial Expansion policy in all over North-east. • The Course provides the knowledge of changes in socio-political and economic structure in Assam under British rule.
		617	History of Europe (1871-1945)	<ul style="list-style-type: none"> • The Course provides the knowledge of internal developments in France, Germany and Italy. • The Course also highlights the internal problems of Russia up to 1917. • The Course also helps students to understand the factors led to World War I and World War II and its aftermath
		618	World Since 1945	<ul style="list-style-type: none"> • The Course provides knowledge of UNO and significant of Cold War. • The Course provides knowledge of Conflict in the Middle –East. • The Course provides the knowledge of internal problems of China, Korea and Vietnam. • The Course also interprets the history of problems of the African States.
		619	History of Japan (1853-1941)	<ul style="list-style-type: none"> • The Course enables the Students to learn the history of Tokugawa Shogunate , End of Isolation Policy and Arrival of Commodore Perry.
		620	Project	<ul style="list-style-type: none"> • The Course enables students the knowledge how to prepare dissertation and gives them an proper knowledge about methodologies associated with it. • Students learns the Concept of Review literature,, foot notes and Bibliography etc.



				<ul style="list-style-type: none"> The Course makes the students enables for research work which will be helpful for them in future.
		101	Early India Up to 1200 A.D.	<ul style="list-style-type: none"> The Course provides an overall history of political,social, economic and culutural ife in Ancient India.
		202	Early Assam up to 1228	<ul style="list-style-type: none"> The Course imparts the Knowledge of history of ancient Assam with Special reference to its Political, Socio-Economic and cultural life
		303	History of India (1206-1526)	<ul style="list-style-type: none"> The Course helps the students to understand the history of Sultante rule in India(1206-1526).
		304	History of Assam (1228-1826)	<ul style="list-style-type: none"> The Course interprets the knowledge of glorious rule Ahom Dynasty and other ruling dynasty of the period in Assam The Course enables the Students to learn the various administrative policies of Ahom dynasty.
		405	History of India (1526-1757)	<ul style="list-style-type: none"> The Course helps the students to understand the history of Mughal Period and different Administrative changes under their rule.
		406	History of Europe (1453-1815)	<ul style="list-style-type: none"> The Course highlights the transition of Europe from medieval to modern period.
		507	History of India (1757-1857)	<ul style="list-style-type: none"> The Course enables the students to learn the history of British expansion policy in India.
		508	History of Europe (1815-1945)	<ul style="list-style-type: none"> The Course enables the students to learn the History of Europe from 1815-1945.
		609	Hisory of India (1815-1945)	<ul style="list-style-type: none"> The Course provides students the knowledge of administrative changes in India after the Revolt of 1857.



				<ul style="list-style-type: none"> The Course also provides the knowledge of the growth of nationalism and communism in India
		610	History of Assam (1826-1947)	<ul style="list-style-type: none"> The Course provides the knowledge of history of Assam after Treaty of Yandaboo. The Course also provides the knowledge of British territorial expansion in Assam. The Course imparts knowledge of national awakening in Assam and role of Assam in Freedom Movement Against British
	BA (CBCS)HONOURS	HIS HC 1016	History of India-I (Earliest times to 300 BCE)	<ul style="list-style-type: none"> The Course enables the students to explore and effectively use the historical tools in reconstructing the remote past of ancient Indian pre and proto history. The Course will also train the students to analyse the various stages of evolution of human cultures and the belief systems in the proto-history period.
		HIS HC 1026	Social Formations and Cultural Patterns of the Ancient World	<ul style="list-style-type: none"> After the study of the Course, the students will be able to explain the processes and stages of the evolution of the variety of cultural pattern throughout antiquarian periods in History. The Course will be able to relate the connections between the various Bronze Age civilization in the ancient world as well as development of slave and polis societies in ancient Greece.
		HIS HC 2016	History of India- II(BCE. 300-750)	<ul style="list-style-type: none"> After the study of the Course, the students will be able to explain the economic and socio-cultural connections, transitions and stratification during the ruling houses, empires and the politico-administrative nuances of early Indian History



				from 300 BCE to CE300
		HIS HC 2026	Social Formations and Cultural Patterns of the Medieval World	<ul style="list-style-type: none"> The Course enables the students to analyse and explain the historical socio-political, administrative and economic patterns of the medieval world. The students will be able to describe the emergence, growth and decline of various politico-administrative and economic patterns and the resultant changes therein
		HIS HC 3016	History of India-III (c750-1206)	<ul style="list-style-type: none"> The Course 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 700 to 1206. The students will also be able to analyse India; interaction with another wave of foreign influence and the changes brought in its wake in the period.
		HIS HC 3026	Rise of the Modern West –I	<ul style="list-style-type: none"> The students will be able to explain the major trends and developments in the Western World between the 14th to the 16th century CE. Students will be able to explore and analyse the significant historical shifts and events and the resultant effects on the civilization of Europe in the period.
		HIS HC 3036	History of India IV(c1206-1550)	<ul style="list-style-type: none"> The course enables the students to explain the political and administrative history of medieval period of India from 1206 to 1550 A.D. Students will also be able to analyse the sources of history, regional variations, social, cultural and



				economic set up of the period.
		HIS HC 4016	Rise of the Modern West -II	<ul style="list-style-type: none"> • The Course enables the students to explain the political and intellectual currents in Europe in the Modern Age. • Students will also be able to relate the circumstances and causal factors of the intellectual and revolutionary currents of both Europe and America at the beginning of the Modern Age
		HIS HC 4026	History of India-V(c1550-1605)	<ul style="list-style-type: none"> • 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. • The Students will also be able to describe the inter relationships between the economy, cultures and religious practices of the period.
		HIS HC 4036	History of India -VI(c1605-1750)	<ul style="list-style-type: none"> • The Course enables the students to explain and reconstruct the linkages of the history of India under the Mughal Rule. • This Course will enable students to relate to the so Medieval period in India.
		HIS HC 5016	History of Modern Europe-I (c1780-1939)	<ul style="list-style-type: none"> • The students will be able to evaluate the historical evolution and political developments that occurred in Europe in the period between 1780 to 1939. • Students will also be able to critically analyse the evolution of social classes, nation states, evolution of capitalism and nationalist settlement in Europe.



				<ul style="list-style-type: none"> Students will also be able to relate to the variety of causes that dragged the world into devastating wars in the intervening period.
		HIS HC 5026	History of India -VII(c1705-1857)	<ul style="list-style-type: none"> The students will be able to relate the circumstances leading to the consolidation of colonial rule over India and their consequences. Students will also be able to explain the orientation of the 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.
		HIS HC 6016	History of India-VIII(c1857-1950)	<ul style="list-style-type: none"> The students will be able to analyse the course of British colonial exploitation, the social mobilizations during the period between c 1857 to 1950 and also the techniques of Indian resistance to British policies. The Course will also enable the students to explain the circumstances leading to de-colonization and also the initial period of nation building in India.
		HIS HC 6026	History of Modern Europe-II(c1780-1939)	<ul style="list-style-type: none"> The Students will be able to analyse the historical developments in Europe between c 1780-1939. The students will be able to situate the historical development of working class movements, socialist upsurge and the economic forces of the two wars and the other ideologies shifts of Europe



				in the period.
	GENERIC ELECTIVE COURSES	HIS HG 1016	History of India from Earliest times up to c 1206	<ul style="list-style-type: none"> 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 the changes and transformations in polity, economy and society in early India and the linkages developed through contacts with the outside world.
		HIS HG 2016	History of India (c 1206-1757)	<ul style="list-style-type: none"> 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
		HIS HG 3016	History of India(c 1757-1947)	<ul style="list-style-type: none"> 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 resistance 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
		HIS HG 4016	Social and Economic History of Assam	<ul style="list-style-type: none"> Upon completion of this course, students will be able to analyse and explain the socio-economic history of Assam including among others the development of caste system, religious beliefs,



				<p>agriculture and land system, the social organization, trade and commerce, various agricultural regulations, plantation economy, development of modern industries, transport system, education, the emergence of middle class, development of literature and press, and growth of public associations</p>
	SKILL ENHANCEMENT ELECTIVE COURSES	HIS SE 3014	Historical Tourism in North East India	<ul style="list-style-type: none"> After completing this course, students will be able to explain Tourism in North East India with special reference to the historical monuments, cultural and ecological elements and places of the north east India country as tourist and heritage sites of the nation. They will be able to relate to the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth.
		HIS SE 4014	Oral Culture and Oral History	<ul style="list-style-type: none"> After this course the students will be able to explain complex interrelationships of structures or events in the context of broader social and cultural framework of societies through 'public memory' and use oral history to preserve oral culture and local history The students will be able to espouse the relevance to the northeastern region of India with its diverse culture and ethnic communities whose history is largely oral. The students will be able to use 'Public memory' as a tool and a source not only to write public history but also to explore new knowledge in the humanities , social sciences and even in disciplines like architecture, communication studies, gender



				studies, English, history, philosophy, political science, religion, and sociology.
	DISCIPLINE SPECIFIC ELECTIVE COURSES	HIS HE 5016	History of Assam up to 1228	<ul style="list-style-type: none"> • This Course will give a general outline of the history of Assam from the earliest times to the advent of the Ahoms in the 13th century. • Students will be acquainted with major stages of developments in the political, social and cultural history of Assam during the early times.
		HIS HE 5026	History of Assam (c 1228-1826)	<ul style="list-style-type: none"> • Students will be able to identify major stages of developments in the political, social and cultural history of Assam during the medieval times. • The paper will enable the student 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 19th century.
		HIS HE 6016	History of Assam (c 1826-1947))	<ul style="list-style-type: none"> • The Course enables the students to describe the period of British rule in Assam after its annexation by the imperialist forces. • The Course enable the students to analyse the main currents of the political and socio-economic developments in Assam during the colonial period
		HIS HE 6026	Assam after Independence	<ul style="list-style-type: none"> • Students will be able to assess the aftermath of Partition and other socio-economic developments in post-independence Assam. • Students will also be able to identify the main currents of political and socio-economic development in Assam after India's independence and the causes and impact of various struggles and movements in contemporary Assam.



	REGULAR COURSES	HIS RC 1016	History of India from Earliest times up to c 1206	<ul style="list-style-type: none"> 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 the changes and transformations in polity, economy and society in early India and the linkages developed through contacts with the outside world.
		HIS RC 2016	Early Assam up to c 1228	<ul style="list-style-type: none"> 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.
		HIS RC 3016	History of India from c. 1206-1757	<ul style="list-style-type: none"> 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 resistance 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.
		HIS RC 4016	History of Assam (c 1228-1826)	<ul style="list-style-type: none"> Upon completion of this course, students will be able to analyse and explain the socio-economic history of Assam including among others the development of caste system, religious beliefs,



				<p>agriculture and land system, the social organization, trade and commerce, various agricultural regulations, plantation economy, development of modern industries, transport system, education, the emergence of middle class, development of literature and press, and growth of public associations</p>
	DISCIPLINE SPECIFIC ELECTIVE COURSES	HIS RC 5016	History of India(c 1757-1947)	<ul style="list-style-type: none"> Students will be able 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 resistance 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.
		HIS RC 6016	History of Assam(c 1826-1947)	<ul style="list-style-type: none"> Upon completion of this course, 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 role in India's freedom struggle. The course would enable the students to analyse the main currents of the political and socio-economic developments in Assam during the colonial period.
	SKILL ENHANCEMENT ELECTIVE COURSES	HIS SE 3014	Historical Tourism in North East India	<ul style="list-style-type: none"> After completing this course, students will be able to explain Tourism in North East India with special reference to the historical monuments, cultural and ecological elements and places of the north east India country as tourist and heritage sites of the nation. They will be able to relate to the



				growing vocation of tourism as an industry and the applicability of historical knowledge for its growth
		HIS SE 4014	Oral Culture and Oral History	<ul style="list-style-type: none"> After this course the students will be able to explain complex interrelationships of structures or events in the context of broader social and cultural framework of societies through 'public memory' and use oral history to preserve oral culture and local history The students will be able to espouse the relevance to the northeastern region of India with its diverse culture and ethnic communities whose history is largely oral. The students will be able to use 'Public memory' as a tool and a source not only to write public history but also to explore new knowledge in the humanities , social sciences and even in disciplines like architecture, communication studies, gender studies, English, history, philosophy, political science, religion, and sociology
	GENERIC ELECTIVE COURSES	HIS RG 5016	History of Europe(c1648-1870)	<ul style="list-style-type: none"> After completing the course the students will be able to explain the emergence of 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
		HIS RG 6016	History of Europe(c1870-1939)	<ul style="list-style-type: none"> 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



				would also enable the students to analyse the causes and consequences of World War I and the developments leading to World War II.
--	--	--	--	--

GEOGRAPHY

PROGRAMME: B.A./B.Sc. (Major & General)

A. PROGRAMME OUTCOME:

The CBCS programme for U.G. Course has been formulated to make aware the students about Earth surface and their changes with time, Production and distribution of resources, need of resource conservation and future trend. Importance has been laid on make the student's well verge with changing scenario, right from the meso to micro level lithospheric and hydrospheric units. The course has also been designed to include new information like Remote sensing, GIS, GPS, their application in various field and preparation of Field Report based on collected data from various sources.

B. PROGRAMME SPECIFIC/COURSE SPECIFIC OUTCOME:

Name	Programme Name	Course Name	Title of the course	Outcome
UG (Geography)	B.A/ B.SC. (Non-CBCS)	101	UNDERSTANDING GEOGRAPHY	Understanding the contribution of worldwide scholars in development of geography
		102	BASIS OF GEOMORPHOLOGY	To get knowledge about geomorphology that is applied in various fields
		103	GEOMORPHOLOGY PRACTICAL	Drawing of drainage basin, drainage ordering etc.
		201	OCEANOGRAPHY AND CLIMATOLOGY	To get information about oceans and climatic influences in our day today life and their



				changes.
		202	WORLD REGIONAL GEOGRAPHY	To impart knowledge about regional variations of the continents.
		203	PRACTICAL ON OCEANOGRAPHY,CLIMATOLOGY	To impart practical knowledge about ocean floors and climograph, hythergraph etc.
		301	SOIL AND BIO GEOGRAPHY	To know about relationship between soil and biosphere
		302	ECONOMIC GEOGRAPHY	To impart knowledge about resources and need of their conservation.
		303	PRACTICAL ON BIO G., ECO. AND F. STUDY	Analysis and drawing of soil map and impart information regarding data collection and preparation of Field report.
		401	FPRMS AND PROCESSES IN GEOMORPHOLOGY	Understanding the types of hazard and minimization of their influences.
		402	HUMAN GEOGRAPHY	Understanding the adjustment of human being in different environment.
		403	PRACTICAL ON GEOMORPHIC PROCESSES	Interpretation of Top sheets and delineation of flood plain zones.
		501	CONCEPT OF REGIONAL DEV. , USA AND JAPAN	Understanding the Geography of the developed countries like Japan, USA.
		502	GEOGRAPHY OF INDIA AND SAARC NATIONS	To get information about physiography and economy of India.
		503	CARTOGRAPHIC AND QUANTITATIVE METHODS	Use of quantitative techniques in geographical study.
		504	POPULATION AND SETTLEMENT GEOGRAPHY	To know about population of the world and settlement types.
		505	PRACTICAL ON CARTOGRAPHIC METHODS	Handling of surveying instruments and mapping of the surveyed area.
		506	PRACTICAL ON CARTOGRAPHIC AND Q. METHODS	To impart practical knowledge and representation of population data.



		601	ENVIRONMENT AND DEVELOPMENT	To know environmental issues and environmental problems
		602	SOCIAL AND POLITICAL GEOGRAPHY	To impart knowledge of society and relation of politics with geography.
		603	N. E. INDIA WITH SPECIAL FOCUS ON ASSAM	To know about N.E. India with special reference to Assam.
		604	APPLICATION OF REMOTE SENSING , GIS AND GPS	To give basic knowledge of remote Sensing, GIS etc.
		605	PRACTICAL ON ADVANCHED TECHNIQUE IN GEOGRAPHY	Practical experience of remote sensing techniques, preparation of maps using GIS.
		606	PROJECT WORK	Practical experience of preparation of Project based on primary and secondary data.
	B.A/ B.SC. (Non-CBCS) (G)	101	PHYSICAL GEOGRAPHY-I	To impart knowledge about unstable earth
		201	PHYSICAL GEOGRAPHY-II	Importance of cartographic techniques in geographical study.
		301	HUMAN GEOGRAPHY	To help the students to develop ideas on man-environment issues.
		302	PRACTICAL ON PHYSICAL GEOGRAPHY	General understanding of map characteristics.
		401	CARTOGRAPHIC AND Q. TECNIQUES IN GEOGRAPHY	To develop ideas about climate related aspects.
		402	PRACTICAL ON HUMAN GEOGRAPHY	It will be helpful to develop ideas on Indian Geography.
		501	REGIONAL GEOGRAPHY	Understanding of various statistical techniques.
		502	CARTOGRAPHIC AND Q. TECNIQUES (PRACTICAL)	To impart knowledge about resources and their conservation.
		601	ECO., POL. AND ENVIRONMENTAL GEOGRAPHY	The paper will enhance environmental knowledge of the students.



		602	MAP WORK AND INTERPRETATION (PRACTICAL)	To give theoretical information about application of R.S. and GIS in Geographical Study.
	B.A/B.SC. (CBCS) HONOURS	GGY-HC-1016	GEOMORPHOLOGY (Theory + Practical)	To impart knowledge about unstable earth
		GGY-HC-1026	CARTOGRAPHIC TECHNIQUES(Theory + Practical)	Importance of cartographic techniques in geographical study.
		GGY-HC-2016	HUMAN GEOGRAPHY	To help the students to develop ideas on man-environment issues.
		GGY-HC-2026	THEMATIC CARTOGRAPHY	General understanding of map characteristics.
		GGY-HC-3016	CLIMATOLOGY	To develop ideas about climate related aspects.
		GGY-HC-3026	GEOGRAPHY OF INDIA	It will be helpful to develop ideas on Indian Geography.
		GGY-HC-3036	STATISTICAL METHODS IN GEOGRAPHY (PRACTICAL)	Understanding of various statistical techniques.
		GGY-HC-4016	ECONOMIC GEOGRAPHY	To impart knowledge about resources and their conservation.
		GGY-HC-4026	ENVIRONMENTAL GEOGRAPHY	The paper will enhance environmental knowledge of the students.
		GGY-HC-4036	REMOTE SENSING AND GIS (PRACTICAL)	To give theoretical information about application of R.S. and GIS in Geographical Study.
		GGY-HC-5016	REGIONAL PLANNING AND DEVELOPMENT	To develop ideas on disparities within and among countries.
		GGY-HC-5026	FIELD WORK AND RESEARCH METHODOLOGY(P)	To collect primary data and methods to be followed in research work.
		GGY-HC-6016	EVOLUTION OF GEOGRAPHICAL THOUGHT	Understanding perspectives on the development and trends in geography



		GGY-HC-6026	D. MANAGEMENT BASED PROJECT WORK(PRACTICAL)	To impart knowledge about different types of disasters and their mitigation.
	Generic Elective Course	GGY-HG-1036	PHYSICAL GEOGRAPHY	To give basic information about physiography.
		GGY-HG-2036	HUMAN GEOGRAPHY	The paper covers aspects like distribution, density and their changes with time.
		GGY-HG-3066	GENERAL CARTOGRAPHY(PRACTICAL)	Use of cartography in quantitative study.
		GGY-HG-4066	ENVIRONMENTAL GEOGRAPHY	To impart environmental knowledge.
	SKILL ENHANCEMENT COURSE	GGY-SE-3044	REMOTE SENSING (PRACTICAL)	Study of satellite maps and analysis to apply them.
		GGY-SE-3054	ADVANCED STATISTICAL TECHNIQUES	Use of statistical techniques in geography.
		GGY-SE-4044	GEOGRAPHICAL INFORMATION SYSTEM (PRACTICAL)	GIS components and preparation of maps accurately.
		GGY-SE-4045	RESEARCH METHODS (PRACTICAL)	Steps to be followed in research works.
	DISCIPLINE/SPECIFIC ELECTIVE COURSE	GGY-HE-5036	POPULATION GEOGRAPHY	The paper covers aspects like distribution, density and their changes with time.
		GGY-HE-5046	RESOURCE GEOGRAPHY	Resources their distribution, need of conservation
		GGY-HE-5056	URBAN GEOGRAPHY	Problems and prospects of Urban areas and causes of their expansion.
		GGY-HE-5066	AGRICULTURAL GEOGRAPHY	World agricultural activities, factors affecting, production and future trends.
		GGY-HE-6036	GEOGRAPHY OF HEALTH AND WELLBEING	Acquiring knowledge about factors influencing human health.
		GGY-HE-6046	POLITICAL GEOGRAPHY	The paper remains useful for students to develop ideas about Geopolitics.
		GGY-HE-6056	HYDROLOGY AND OCEANOGRAPHY	The student will learn to analyse hydrology of any area.
		GGY-HE-6066	SOCIAL GEOGRAPHY	Clear understanding about race, culture, religion and their diffusion with time.



		GGY-HE-6076	PROJECT WORK/DISSERTATION	Preparation of a project on a particular subject and information regarding preparation of a dissertation.
--	--	-------------	---------------------------	---

POLITICAL SCIENCE

Programme: BA (Major & General)

A. Programme Outcome:

1. Creating awareness about Human rights and the effectiveness of Human rights organizations in preserving Human rights at national and International level.
2. Understanding the Constitutional set up of Indian Political System and evaluation of Indian political system.
3. Decisive assessment of political, social and economic variables for a suitable understanding of the plurality of Indian Society.
4. Creating general awareness regarding western and Indian political thinkers and understanding the historical background of national politics and changing nature of International relations.
5. Understanding the Comparative Administrative System with special reference to the policies and structure of Indian Administrative system.
6. Evaluating the foreign policy in International relations with special reference to Indian foreign policy and its relation with other countries.
7. Analyse the role and relevance of major International organizations with special reference to regional organizations in achieving cooperation, peace and security.
8. Evaluate policies and political issues and searching for solutions of political issues in national and international arena.
9. Understanding the major issues of public policies of welfare Administration.
10. Analyse the nature and scope along with the theories and concepts of political Science and its relation with the other branches of Social Sciences.



B. PROGRAMME SPECIFIC/COURSE SPECIFIC OUTCOME:

Programme Name	CBCS/NCBCS	Course Code	Title of the course	Programme outcome (in bullets)
UG (Political Science)	BA (Non-CBCS), Major	M 101	POLITICAL THEORY-I	<ul style="list-style-type: none"> . To understand the concept of political Theory . To analyse the nature, scope and significance of political Theory . To understand the various concepts and perspectives of political theory
		M 102	POLITICS IN INDIA- I	<ul style="list-style-type: none"> .To understand the nature and history of politics in India .To evaluate the features of the Constituion of India .To understand the organs of the Government of India
		M 201	POLITICAL THEORY-II	<ul style="list-style-type: none"> . To understand the contemporary theorues of Political Theory .To evaluate the traditional and modern theories of political Theory
		M 201	POLITICS IN INDIA- II	<ul style="list-style-type: none"> .To understand the political instituions in India .To evaluate the contemporary issues inpolitics of India
		M 301	INTERNATIONAL RELATIONS-I	<ul style="list-style-type: none"> . To understand the concept ,nature and scope of International relations .To understand the theories of International Relations
		M 302	PUBLIC ADMINISTRATION-I	<ul style="list-style-type: none"> .To evaluatethe concept and the growth of Public Administration .To understand the major ideas of Public Administration
		M 401	INTERNATIONAL RELATIONS-II	<ul style="list-style-type: none"> .To understand the deplomacy. Foreign policy and new ideas of International Relations .To evaluate the role International and Regional organisations



		M 402	PUBLIC ADMINISTRATION-II	.To examine the comparative public Administration .To undersarand the financial Administration
		M 501	WESTERN POLITICAL THINKERS	To understand the political philosophy of western thinkers .To understand the concepts of Greek political Philosopher
		M 502	SELECT CONSTITUTIONS- I	.To understand the nature of constituionof selected countries To understand the political system of selected countries
		M 503A	POLITICS IN NORTH EAST INDIA	.To understand thr nature of pilitics in Northeast India .To examine the changing nature of political system of North east India
		M 503B	GENERAL SOCIOLOGY	.To understand the transformation of social norms of social values ,ethics from one generarion to another generation .To understand the social agencies in Society
		M 504A	CONTEMPORARY POLITICAL ISSUES	. To know the major contemporary issues in political system .To understand the contemporary issues in national and international area
		M 504B	WOMEN AND POLITICS	To know the ideas of women and politics To evaluate the concept of women empowerment and the theories of feminism
		M 505A	LOCAL RURAL GOVERNANCE	To know the functioning of rural local government To understand the major issues in rural local government
		M 505B	POLITICAL SOCIOLOGY- 1	To understand the social instituions in society To evaluate the concept of political sociology
		M 506A	DEMOCRACY IN INDIA-I	.To know the functioning of indian democracy .To understand the contemporary issues in indian democracy
		M 506B	HUMAN RIGHTS	.To know the concept and three generations of Human rights .To understand the major rights of people with special reference to women



		M 601	INDIAN POLITICAL THINKERS	To understand the political philosophy of indian political thinkers To know the contributions of political thinkers in India political system
		M 602	SELECT CONSTITUTIONS- II	To make a comparative study of political system To understand the political system of select constituions
		M 603C	POLITICS IN NORTH-EAST INDIA	To know the changing politics in north east india. .To understand the issues in north east india
		M 603D	GENERAL SOCIOLOGY-II	To understand the society as a whole To understand the various organs of the society and its changing pattern
		M 604C	CONTEMPORARY POLITICAL IDEOLOGIES	To know the concepts of major contemporary political ideologies To make a comparative study among the contemporary political ideologies
		M 604D	WOMEN AND POLITICS IN INDIA	To know the role of women in indian political system To understand the issues related to the women in indian political system and how politics can resolved those issues
		M 605C	URBAN LOCAL GOVERNANCE	To know the constituional provisions for urban local government To understand the functioning of urban local government
		M 605D	POLITICAL SOCIOLOGY- II	To know the major ideas of political sociology To understand the major relationship between the politics and society
		M 606C	DEMOCRACY IN INDIA- II	To know the nature and functioning of indian democracy To understand the contemporary issues in indian democracy
		M 606D	HUMAN RIGHTS IN INDIA	To know the growth of human rights in india To understand the role of human rights institutions in india
		E 101	POLITICAL THEORY-I	. To know the concepts ,nature and scope of political theory



				To understand the modern theory of political science
	General	E 201	POLITICAL THEORY-II	To know the contemporary theories of political science To understand the concepts of contemporary political theories
		E 301	INTERNATIONAL RELATIONS-I	To know the theories of international relations To understand the major issues of international relations
		E 302	POLITICS IN INDIA- I	To know the concept ,organs of government and functioning of indian political system To understand the major issues in politics of India
		E 401	INTERNATIONAL RELATIONS-II	To evaluate the changing role of political institutions in international relations To evaluate the major issues in international relations
		E 402	POLITICS IN INDIA-II	To know the major issues in political system of india To know the political system in india
		E 501	PUBLIC ADMINISTRATION- I	.To know the concepts and theories of public administrations To know the principles and functioning of public administration
		E 502	SELECT CONSTITUTIONS- I	To understand the political system of selected countries To know the functioning of the political system
		E 601	PUBLIC ADMINISTRATION- II	To know the nature and scope of public administration To understand the principles and role of public Administration
		E 602	SELECT CONSTITUTIONS- II	To know the functioning of political system in select countries To make a comparative study of constitutions of select countries
	BA (CBCS)HONOURS	POL HC 1016	Understanding Political Theory	To know the concepts, Nature and scope of political theory To understand the theories of political theory



		POL HC 1026	Constitutional Government and Democracy in India	To know the functioning of Indian Democracy To understand the relevance of constitutional democracy in India
		POL HC 2016	Political Theory- Concepts and debates	To understand the major debates on political theory To evaluate the concepts and impact of debates on political Theory
		POL HC 2026	Political Process in India	To know the idea of political process in Indian context To understand the issues of political processes in India
		POL HC 3016	Introduction to comparative government and politics	To make a comparative study of governments To understand the concepts of comparative politics
		POL HC 3026	Perspectives and Public Administration	To know the major theories on public administration To evaluate the contemporary perspective of public Administration
		POL HC 3036	Perspectives on International Relation and World History	To know the major theories on International relations To understand the impact of major perspective on international relations
		POL HC 4016	Political Processes and Institutions in Comparative Perspective	To know the concepts of political institutions and processes To understand the nature of political processes and institutions in comparative perspective
		POL HC 4026	Public Policy and Administration in India	To evaluate the major public policies in India To know the welfare policies of Administration in India
		POL HC 4036	Global Politics	To know the impact and functioning of global politics To understand the major issues in global politics
		POL HC 5016	Classical Political Philosophy	To know the political philosophy To understand the concept and effectiveness of classical political philosophy
		POL HC 5026	Indian Political	To know the history of Indian political thought



			Thought-I	To understand the ideas of Indian political thought
		POL HC 6016	Modern Political Philosophy	.To examine the contributions of modern political philosophy To know the ideas of modern political philosophy
		POL HC 6026	Indian Political Thought-II	To understand the political thought in Indian context To know the contributions of Indian political thought
	AE SKIL BASED	POL SE 3014	Parliamentary Procedures and Practices	.To know the functioning of parliamentary forms of government .To understand the major procedures and practices in parliamentary system
		POL SE 3024	Youth and Nation Building	.To evaluate the role of youth in nation building To examine the contributions of youth in nation building
		POL SE 4014	Panchayati Raj in Practice	.To understand the functioning of panchayati raj .To know the issues of panchayati raj institutions in practice
		POL SE 4024	Citizens and Rights	To understand the features and types of rights To know the role of rights for citizens
	DISCIPLINE SPECIFIC ELECTIVE	POL HE 5016	Human Rights	.To evaluate the concepts and evolution of human rights .To understand the three generations of Human rights
		POL HE 5026	Public Policy in India	.To know the functioning of public policy of India To understand the issues of public policy in India
		POL HE 5036	Understanding Global Politics	To understand the global politics in contemporary era To know the contemporary issues in global politics
		POL HE 5046	Select Constitutions	To make a comparative study of the constitution of the select countries To understand the political system of select countries
		POL HE 6016	India's Foreign Policy in a Globalizing world	.To know the role of india's foreign policy To understand the foreign policy of India with its Neighbour and other countries
		POL HE 6026	Understanding South	To know the political system of south Asia



			Asia	To understand the major issues in South Asia
		POL HE 6036	Women, Power and Politics	To know the role of women in politics To understand the concept of women emooowerment
		POL HE 6046	Social Movements in North-East India	.To understand the meaning, and principles of Social Movements .To evaluate the impact of Social movements in Northeast India
	GENERIC ELECTIVE	POL HG 1016	Introduction to Political Theory	.To analyse the the concpets and nature and scope of political theory .To evaluate the major ideas of political theory
		POL HG 1026	Politics in Norh east India	.To understand the changing role of Politics in north east india .To evaluate the impact of politics in North east India
		POL HG 2026	Feminism:Theory and Practice	.To understand the concepts of feminism .To understand the theories of faminism and its relevance in both developed and developing countries
		POL HG 2036	LocaL Rural and Urban Governance	.To Understand the ideas of three tier government .To know the functioning of urban and rural governments in grassroot levels
		POL HG 3026	Gandhi and the Contemporary World	.To understand the Ghandhian philosophy in Contemporary World politics .To know the relevance of Gandhian ideas in Contemporary world
		POL HG 3036	United Nations and Global Conflicts	.To know the functions and effectiveness of UN .To understand the role of UN in solving Global Conflicts
		POL HG 4026	Understanding Ambedkar	.To know the political philosophy of Ambedkar .To understand the contributions of Ambedkar in Indian Philosophy



		POL HG 4036	Politics of Globalization	.To understand the concept and changing ideas on Globalisation .To evaluate the impact and outcome of globalisation
--	--	-------------	---------------------------	--

NEPALI

Programme: BA General as MIL (NEPALI)

A. Programme outcome:

The UG Nepali general courses of Gauhati University have been prepared on comprehensive ways so as to prepare the students with multiple trends of Nepali literature and the different movement associated with it. The non-CBCS general course contains **four courses** while CBCS courses also contain **four courses**, previously known as papers, from **semester 1 to semester 4**. The overall programme outcomes of this course are as follows:

- a. To increase students proficiency in writing Nepali literature.
- b. This course has enhanced students understanding how to use their own resources to dig deep into the world of prose, poetry, drama, fiction, non-fiction, various essays and biographical writings.
- c. This course is to acquaint the students with different grammatical terms, vocabulary, phrases, syntax of Nepali language.
- d. The ability enhancement compulsory course in Nepali is designed to serve the academic needs.
- e. This Nepali course is also based on practical orientation in Nepali language. This course will obviously be very beneficial to students in practical life.

B. Programme/Course Specific Outcome:

Programme	CBCS/NCBCS	Course Code	Title of the course	Programme outcome
UG (Nepali)	BA (Non-CBCS)	First Paper	First paper: Nepali Poetry	Deals with nepali poetry from "Aadikabi" Bhanu Bhakta Acharjya to contemporary time .



		Second Paper	Nepali drama +Noval	This paper deals with nepali drama beginning from Napali Sundar Kanda” to other selected plays.
		Third Paper	Nepali Prose (Fictional +Non Fictional)	This paper helps students to earn basis knowledge on nepali prose other non fictional works with reference to related texts.
		Fourth Paper	Grammar, Composition and unseen Essay	The objective of the paper is to acquaint the students with different grammatical terms of Nepali language
UG (Nepali)	B.A (CBCS)	AECC-1014	Pramukh Bharatia Bhasa	The fundamental aim of the course is to familiarize the students with the great poet of nepali literature “Mahakabi” Laxmi Prasad Devkota and his masterpiece Monamadan,a narrative epic that reflects the poverty and humanitarian spirit of the age in a language often unrivalled in nepali literature.
		NEP-HG-2016	Nepali Sahityako Parichoy	This paper also gives students a lesson on Nepali language in addition to the basic information of different world languages..
		NEP-HG-3016	Nepali Samaj Ra Sankriti	This paper aims at reflecting Nepali culture and its multiple aspects.
		NEP-HG-4016	Nepali Lok Sahitya Ko Parichay	This paper aims in reflecting different aspects of nepali culture and literature related to it.



ASSAMESE

Programme:

BA (Major & General) and Non - CBCS and CBCS

A. Programme outcome:

- a. **Honours Course:** It explores the Assamese language, literature and culture. It also contains literary criticism, study of comparative Indian literature, general linguistic Assamese script and preparing projects.
- b. **Regular Course:** The course deals with the knowledge of the development of Assamese language, literature, culture, Assamese script, translation, production, literary criticism, general linguistic and editing, compiling, publishing etc.
- c. **Core Course:** The course intends to trace the history of Assamese language, literature and script, varieties of language, functional grammar of Assamese, cultural behaviour of Assamese, oral traditions, folk and performing art.
- d. **Skill Enhancement elective Course:** This course is created for students interested in marketing and advertisement and the other field of creative literature.
- e. **Generic Elective:** The aim of the course is to make the students understand the importance of speech to improve their communication skill relating to speech and development the skill of production of drama & designing of stage.
- f. **Communicative course:** The course deals how to develop the skill of speaking and writing of Assamese language and how to apply the Assamese language as a medium of computer, internet and social media.



B. Programme/Course Specific Outcome:

Program code	Program Name	Course code	Course Name	Course outcome
UG(Assamese)	BA/B.Sc. (Non-CBCS) MAJOR	M- 104	History of Assamese Literature (Folk literature to medieval period literature) & Script	Student will gain the knowledge about the origin of the Assamese literature and the Assamese Script
		M- 105	Selected text of the Early Assamese Poetry	Student will obtain knowledge about the Assamese poetry of the early stage
		M- 204	History of Assamese Literature (Post Shankari to Awahan Yog)	Student will accumulate knowledge on Assamese literature during this period in chronological order.
		M-205	Modern Assamese Poetry	The course highlights various literary movements and the concept of modernity in Assamese poetry
		M- 304	Assamese Language	Students will acquire the knowledge to trace the origin, growth and development of Assamese Language
		M-305	Study of Assamese Literature with a special Author (Shankardev or Lakshminath Bezbaruah)	Students will be highly benefited by analysing the lives of the two prolific figures of Assamese literature.
		M- 401	Assamese Grammar	The students will be benefited with the knowledge of the phonology, morphology and the syntax of Assamese.
		M-402	Introduction of Assamese People, Society and culture	The study will acquaint the students about the Ethnicity, social customs, traditions as well as the significance of various religions of Assam.
		M-403	Field study to prepare a mini Seminar	The students will able to get fruitful



			paper	experiences in field studies in near future.
		M-501	Purani axomiya Natok, the selected dramas of Shankardev and Madhavdev	The students will acquire various artistic skills on Ankia Nats, dramas and the rich Vaishnavite literature of Assam.
		M-502	Ancient Assamese Prose	The course will enhance and expedite the knowledge of the development of Assamese prose among the students.
		M-503	Study of Brojawali Literature	The students will get the opportunity to learn the basic Brojawali language and literature.
		M-504	Study of Literature and Grammar of Pali-Prakrit	The Course will help to know about the growth and development of the Pali and Prakrit language and literature.
		M-505	Literary Criticism	The course exposes various trends and criticism of classical and modern literature
		M-606	Linguistics	The course will help to attain knowledge of the language family and the transition of language.
		M-601	Modern Assamese Drama	The course will help to inculcate the transition and development of modern Assamese dramas.
		M-602	Assamese Prose (Modern)	The course will accelerate the process of learning Assamese prose among the students.
		M-603	Modern Indian Literature	The course tries to make a comparative study among Hindi, Bengali, and Assamese literature
		M-604	Assamese Short story and Novel	The student will able to know the modern trends of Assamese short stories and novel.
		M-605	Chanda & alankar	The student will please to learn the knowledge of Metre and figure of Assamese poetry.
		M-606	Introduction of Linguistics	The course deals with the definition and Classifications pure linguistics



UG ASSAMESE	B.A.(Non CBCS) MIL(ASSAMESE)	E-103	Assamese Poetry	Students have to go through the selected ancient and modern poetry and gain knowledge of the trends of Assamese poetry
		E-203	Assamese Prose	The course will increase the knowledge of the development of Assamese prose among the students
		E -308	Assamese Drama	The students have to go through the selected modern Assamese dramas and be acquaint about the new trend.
		E -408	Assamese Short story , Novel and Essay writing	The student will be able to know the modern trends of Assamese short stories and novel and to train the students to write a good essay with focused subject
	Elective/ Advance Assamese	E-101	History of Assamese Literature(Folk literature to medieval period literature)	Students will gain the knowledge about the origin of the Assamese literature.
		E-201	Assamese language	Students will acquire the knowledge to trace the origin and the development of Assamese Language
		E -304	History of Assamese Literature	Students will gain the knowledge about the last quarter of the Vaishnav literature and the beginning of modern Assamese literature
		E- 403	Assamese Grammer	The students will be benefited with the knowledge of the phonology, morphology and the syntax of Assamese
		E -503	Assamese Poetry	Students have to go through the selected ancient and modern poetry and gain knowledge of the trends of Assamese poetry
		E- 504	Purani axomiya Natok, the selected dramas of Shankardev and Madhavdev	The students will acquire knowledge of the techniques of Ankia Nat & the modern



				drama of Assamese literature .
		E- 603	Assamese Prose	The course will increase the knowledge of the development of Assamese Prose among the students
		E -604	Short story and novel	The student will be able to know the modern trends of Assamese short stories and novel
UG Assamese	B A CBCS (Honors)	ASM-HC-1016	History of Assamese Literature (Charyapad-shankari Yug)	Student will gain the knowledge about the origin of the Assamese literature.
		ASM-HC-1026	History of Literature (Uttar Shankari to Aronodoya yug)	Student will gain the knowledge of post shankari period of Assamese literature
		ASM-HC-2016	Linguistic	The course deals with the definition and Classification of the theories of pure linguistics.
		ASM-HC- 2026	Literary Criticism	The course deals with various trends and criticism of classical and modern literature
		ASM-HC- 3016	Introduction to Assamese Literature	The course deals with the various forms of the Assamese literature such as short stories, tales, poetry, prose, criticism , biography, autobiography, novel, travelogue and essays’.
		ASM-HC-3026	Selected texts of Assamese Poetry	The students have to go through the selected poems of different periods of Assamese poetry and acquired knowledge about the trends of Assamese poetry.
		ASM-HC-3036	Culture of Assam	The course will make the student acquainted about the aspects trends and traditions of Assamese culture & the significance of social and religious aspects.
		ASM-HC-4016	Comparative Indian Literature	The students will obtain the knowledge about the definition, source , development, and the field of Indian comparative literature with the reference of selected works of Bangali and



				hindi languages
		ASM-Hc-4026	Synthesis of Assamese Language: Aryan & Non Aryan language	The student will acquire the knowledge about the origin and development of Assamese language from Aryan language family and the non Aryan aspects in Assamese language.
		ASM-HC-4036	Assamese Prose	This course covers the development of assamese prose with reference to various selected pieces of Assamese drama and ancient works.
		ASM-HC-5016	Assamese Drama & its style of performance	The course helps the students to know about the ancient form of Assamese drama and the various periods of development of modern Assamese drama with selected works.
		ASM-HC-5026	Assamese Grammar	The students will be benefited with the knowledge of the phonology, morphology and the syntax of Assamese language.
		ASM-HC-6016	Assamese short story and novel	The student will be able to know the modern trends of Assamese short stories and novel
		ASM-HC-6026	History of Assamese script	The course covers the origin & development of the Assamese script.
UG Assamese	B A - DSE	ASM-HE- 5016	Assamese Folk Literature	The course helps the students to gain the knowledge of Assamese folk literature.
		ASM-HE- 5026	Assamese Romantic poetry	The course helps the students to acquire the knowledge of the trend of romanticism in Assamese poetry.
		ASM-HE- 5036	Shankardeva	It covers the life and works of Shankardeva.
		ASM-HE- 5046	Assamese Science Fiction	The course helps the students to collect the knowledge about the authors and the works of science fiction.
		ASM-HE- 6016	Lakshminath Bezbaruah	It covers the life and works of Lakshminath



				Bezbaruah and to understand the significant contribution to the Assamese literature and Assamese society
		ASM-HE-6026	Banikanta Kakati	It covers the life and works of Dr. Banikanta Kakati and his significant contribution to the Assamese literature and Assamese society
		ASM-HE- 6036	Sishu Sahitya and Kishore Sahitya (Childrens Literature)	Students will collect the knowledge about the authors and works of Assamese literature through the course.
		ASM-HE- 6046	Dialects of Assamese language	The course will help the student to know the origin and development of Assamese language and its dialects.
		ASM-HE- 6056	Projects	The course will involved each and every student to a projects assigned by the department to develop their research skill.
UG Assamese	B A - SEC	ASM- SE- 3014	Applied Assamese	The student will be acquaint to the application of Assamese Language in various fields.
		ASM- SE-4014	Creative Literature	The course will make the students to increase the creativity in literature.
UG Assamese	B A –GE	ASM- HG-1016	Recitation	The course will help the students to be skilled in the art of recitation professionally.
		ASM-HG-2016	Production	The course will groom the interested students as a producers of any event.
		ASM-HG-3016	Assamese Drama and settings of stage	The course will make the students as a professional worker of drama and stage designing.
		ASM-HG-4016	Modern Assamese Lyrics	The course helps the students to be a professional lyricist.
UG Assamese	B A -AECC		Communicative Assamese	This course covers the knowledge of language, writing of application, advertisement, and

PROGRAMME OUTCOME/PROGRAMME SPECIFIC OUTCOME/COURSE SPECIFIC OUTCOME*Of the Programmes/Courses offered by THB College, Jamugurihat under Gauhati University*

		ASM- AE-1014		quotation, the use of internet, social media and use Assamese as the language of computer.
UG Assamese	B A- RC (Core Course)	ASM-RC - 1016	History of Assamese Language	Students will acquire the knowledge to trace the origin and the development of Assamese Language
		ASM-RC - 2016	History of Assamese Literature (Beginning of 18 th Century)	Student will gain the knowledge about the beginning to 18 th Century.
		ASM-RC- 3016	General Linguistic	The course will help to attain knowledge of the language family and the changes of language
		ASM-RC - 4016	Literary Criticism	The course deals with various trends and criticism of classical and modern literature
		ASM- RE- 5016	Assamese Folk Literature	The course helps the students to gain the knowledge of Assamese folk literature.
		ASM-RE-5026	Shankardeva	It covers the life and works of Shankardeva.
		ASM-RE-6016	Metre and Figure of Poetry (Chhanda Alankar)	The student will gain the knowledge of the Metre and figure of Assamese poetry
		ASM-RE-6026	Modern Assamese Lyrics	The course helps the students to be a professional lyricist.
		ASM-SE-3014	Applied Assamese	The student will be acquaint to the application of Assamese Language in various fields.
		ASM-SE- 4014	Creative literature	The course will help to develop the skill of creativity in writing.
		ASM-SE-5014	Editing and Publishing	The course will help the students to be a professional editor and publishers.
		ASM-SE-6014	Spelling of Assamese Language	It will help the students to obtain the knowledge of derivatives and pronunciation of Assamese words
		ASM- RG- 5016	Recitation	The course will help the students to be skilled



				in the art of recitation professionally.
		ASM-RG-6016	Production	The course will groom the interested students as a producers of any event.
UG (Assamese)	BA/B.Sc. (CBCS) MIL	ASM –CC-3016	Ancient Assamese Literature	The course will increase the knowledge about the development of ancient Assamese literature among the students.
		ASM –CC-4016	Modern Assamese Literature	The course will increase the knowledge of the development of modern Assamese literature among the students

BOTANY

PROGRAMME: BSC. MAJOR & GENERAL

A. Programme outcome:

The UG Botany course (Major& General) of Gauhati University has been prepared to acquaint the students with multiple knowledge of the plant diversity, classification, functional and structural aspect of plant development by utilising novel tools and techniques of botanical research. The overall outcome of the programme is as follows-

- 1 To increase the student's knowledge about plant diversity, their management and utilisation.
- 2 To enhance the knowledge of the students about plant- environment relationship and environmental management.
- 3 To acquaint the student with the application of modern tools and techniques in the field of Botany.

B. PROGRAMME/Course SPECIFIC OUTCOME:



Programme	CBCS/NON CBCS	Course Code	Course title	Programme outcome in bullet form
UG (Botany)	B.Sc. (Non-CBCS)	M 101	Plant Kingdom, Algae and Fungi	<ul style="list-style-type: none"> ➤ Understanding the types of plants and their classifications. ➤ Detail knowledge about algae and fungi
		M 102	Bryophytes and Pteridophytes	<ul style="list-style-type: none"> ➤ Knowledge about different classes of Bryophytes and Pteridophytes
		M 103	Practical	<ul style="list-style-type: none"> ➤ Identification and analysis of vegetative and reproductive organs of cryptogams, field study etc. ➤ Classification with characters.
		M 201	Gymnosperms, Palaeobotany and Plant Anatomy	<ul style="list-style-type: none"> ➤ Understand the concept of Gymnosperms. ➤ Identification and analysis Fossil plants.
		M 202	Cell Biology	<ul style="list-style-type: none"> ➤ Detail knowledge about plant cell, its structure and functions. ➤ Knowledge of chromosomes and genes.
		M 203	Practical	<ul style="list-style-type: none"> ➤ Identification, analysis and classification of gymnosperms and fossil plants, field study etc. ➤ Knowledge of cell structure and cell division
		M 301	Ecology, Plant Geography, Evolution	<ul style="list-style-type: none"> ➤ Knowledge of environment and its impacts on plant. ➤ Concept of the distribution of plant in different geographical regions of the world. ➤ Understand the significance of evolution on present day plant.
		M 302	Instrumentation and Laboratory Techniques	<ul style="list-style-type: none"> ➤ Knowledge of advance scientific instruments and their use in laboratory. ➤ Knowledge of different solutions and their application in plant analysis.
		M 303	Practical	<ul style="list-style-type: none"> ➤ Practical experience and knowledge of advance scientific instruments.
		M 401	Morphology, Palynology, Embryology of Angiosperms	<ul style="list-style-type: none"> ➤ Knowledge of pollens and embryo and concept of different plant morphological characters.
		M 402	Plant Taxonomy	<ul style="list-style-type: none"> ➤ Knowledge of different systems of plant classifications, plant taxonomy and its objectives and principles.



		M 403	Practical	<ul style="list-style-type: none"> ➤ Practical knowledge of flowering plants, their analysis and identification, field study etc.
		M 501	Microbiology and Immunology	<ul style="list-style-type: none"> ➤ Concept of microorganism and their role in human welfare. ➤ Knowledge of immunity and immune response in human being.
		M 502	Plant Pathology and Lichen	<ul style="list-style-type: none"> ➤ Concept of plant diseases and their control measures ➤ Knowledge of lichen and its role in the environment.
		M 503	Cytogenetics, Plant Breeding and Biometrics	<ul style="list-style-type: none"> ➤ Understanding the significance of plant breeding ➤ Knowledge of mathematical analysis of genes.
		M 504	Applied Botany	<ul style="list-style-type: none"> ➤ Knowledge of economically important plants and their applications.
		M 505	Practical	<ul style="list-style-type: none"> ➤ Practical experience about different micro organisms. ➤ Knowledge of collection and culture of microbe from air, water and soil.
		M 506	Practical	<ul style="list-style-type: none"> ➤ Practical knowledge and analysis of genes, RNA and DNA.
		M 601	Molecular Biology and Plant Biochemistry	<ul style="list-style-type: none"> ➤ Concept and knowledge of bio molecules ➤ Understanding bio chemical process in plant.
		M 602	Bioinformatics, Computer Application and Biotechnology	<ul style="list-style-type: none"> ➤ Knowledge and application of information technology in biological processes ➤ Basic knowledge application of technology in biology
		M 603	Plant Physiology	<ul style="list-style-type: none"> ➤ Understanding the physiological process of plants
		M 604	Plant Resource Utilization	<ul style="list-style-type: none"> ➤ Understand the concept of plant resources, resource conservation and management.
		M 605	Practical	<ul style="list-style-type: none"> ➤ Practical analysis and knowledge of bio molecules, DNA sequencing. ➤ Knowledge of DNA finger printing, Genetic engineering etc.
		M 606	Practical	<ul style="list-style-type: none"> ➤ Knowledge of chemical analysis alkaloids, tannins etc. ➤ Concept of osmotic potential, RQ etc.
		E 101	Diversity of Microbes and	<ul style="list-style-type: none"> ➤ Concept of microbes and non flowering plants.



			Cryptogams	
		E 201	Cell Biology and Genetics	<ul style="list-style-type: none"> ➤ Understand the concept of cell structure, cell division etc. ➤ Concept of genes and heredity.
		E 301	Diversity of Seed Plants and their Systematic	<ul style="list-style-type: none"> ➤ Knowledge of seed plants, their classification, distribution and utilisation.
		E 302	Practical	<ul style="list-style-type: none"> ➤ Practical experience and knowledge of the internal and external structure of seed plants.
		E 401	Plant Physiology and Biochemistry	<ul style="list-style-type: none"> ➤ Concept of physiological and biochemical processes of plant.
		E 402	Practical	<ul style="list-style-type: none"> ➤ Analysis and interpretations of photosynthesis, respirations, germinations etc.
		E 501	Structure, Development and Reproduction in Flowering Plants	<ul style="list-style-type: none"> ➤ Understand the internal structure, stages of development of seed plants etc.
		E 502	Practical	<ul style="list-style-type: none"> ➤ Practical experience and knowledge of morphological and anatomical structure of flowering plants, field study etc.
		E 601	Ecology and Utilization of Plants	<ul style="list-style-type: none"> ➤ Understand and knowledge of the relation between plant and environment, environment pollutions etc. ➤ Knowledge of plant resource and its utilisations.
		E 602	Practical	<ul style="list-style-type: none"> ➤ Practical knowledge of environment and its impact on plant growth, development, distributions etc.
	B.Sc. (CBCS)	BOT-HC-1016	Phycology and Microbiology	<ul style="list-style-type: none"> ➤ Concept of algae, bacteria, virus etc.
	Core Papers	BOT-HC-1026	Bio molecules and Cell Biology	<ul style="list-style-type: none"> ➤ Knowledge of different bio molecules and their roles in living organism.
		BOT-HC-1016	Practical	<ul style="list-style-type: none"> ➤ Practical knowledge of the structure of algae, bacteria etc.
		BOT-HC-1026	Practical	<ul style="list-style-type: none"> ➤ Analysis and detection of bio molecules present in plant parts.
		BOT-HC-2016	Mycology and Phytopathology	<ul style="list-style-type: none"> ➤ Understand the concept of fungi and plant disease
		BOT-HC-2026	Archegoniate	<ul style="list-style-type: none"> ➤ Knowledge of bryophytes, pteridophytes, gymnosperms etc.

PROGRAMME OUTCOME/PROGRAMME SPECIFIC OUTCOME/COURSE SPECIFIC OUTCOME*Of the Programmes/Courses offered by THB College, Jamugurihat under Gauhati University*

		BOT-HC-2016	Practical	➤ Practical knowledge of fungi and plant diseases
		BOT-HC-2026	Practical	➤ Practical knowledge and identification of bryophytes, pteridophytes etc.
		BOT-HC-3016	Morphology and Anatomy of Angiosperm	➤ Concept of external and internal structure of flowering plants
		BOT-HC-3026	Economic Botany	➤ Understand the plant resources and their use.
		BOT-HC-3036	Genetics	➤ Understand the significance of gene, DNA, RNA etc.
		BOT-HC-3016	Practical	➤ Practical knowledge of morphological and anatomical structure of flowering plants
		BOT-HC-3026	Practical	➤ Comprehensive knowledge of plant resources and their utilities.
		BOT-HC-3036	Practical	➤ Practical knowledge of gene, chromosomes etc.
		BOT-HC-4016	Molecular Biology	➤ Knowledge of bio molecules, their structure and functions.
		BOT-HC-4026	Plant Ecology and Phytogeography	➤ Concept of plant- environment relationship, factors of environment pollution ➤ Knowledge of distribution of plants in different geographical regions.
		BOT-HC-4036	Plant Systematic	➤ Understand the types of flowering plants, their classifications etc.
		BOT-HC-4016	Practical	➤ Analysis and interpretations of bio molecules.
		BOT-HC-4026	Practical	➤ Practical knowledge of plant- environment relationship.
		BOT-HC-4036	Practical	➤ Practical knowledge of external and internal structure of flowering plants.
		BOT-HC-5016	Reproductive Biology of Angiosperms	➤ Understand the process of reproduction in flowering plants
		BOT-HC-5026	Plant Physiology	➤ Understand the significance of different physiological processes in plant growth and development.
		BOT-HC-5016	Practical	➤ Practical knowledge of the process of plant flowering, field study etc.
		BOT-HC-5026	Practical	➤ Analysis and interpretations of plant physiological processes.



		BOT-HC-6016	Plant Metabolism	➤ Knowledge of the metabolic process of plant and its role in plant growth.
		BOT-HC-6026	Plant Biotechnology	➤ Concept of the use of technology in biological science.
		BOT-HC-6016	Practical	➤ Analysis and interpretations of the process of plant metabolism.
		BOT-HC-6026	Practical	➤ Practical knowledge of the use of technology in plant product.
	DSE	BOT-HE-5016	Natural Resource Management	➤ Understand the concept of plant resources and their management.
		BOT-HE-5026	Horticultural Practices and Post-Harvest Technology	➤ Knowledge of horticulture, its management and economic activities etc.
		BOT-HE-6016	Industrial and Environmental Microbiology	➤ Practical knowledge of micro organisms and their utilities in the industry. ➤ Concept of micro organisms in management of environment etc.
		BOT-HE-6026	Analytical Techniques in Plant Sciences	➤ Analysis and interpretations of modern techniques in plant and plant product, economic activities etc.
		BOT-HE-6036	Project work/Dissertation	➤ Knowledge of field study, data interpretations and analysis.
	GE	BOT-HG-1016	Biodiversity (Microbes, Algae, Fungi and Archegoniate)	➤ Understand the knowledge of non flowering plants
		BOT-HG-1016	Practical	➤ Practical knowledge of non flowering plants and their structures.
		BOT-HG-2016	Plant Ecology and Taxonomy	➤ Knowledge of environment in relation to plant growth and development, field study etc.
		BOT-HG-2016	Practical	➤ Practical knowledge of flowering plants, field study etc.
		BOT-HG-3016	Plant Physiology and Metabolism	➤ Concept of the physiological processes in flowering plants.
		BOT-HG-3026	Environmental Biotechnology	➤ Knowledge of biotechnology in relation to plant, their utilisations etc.
		BOT-HG-3016	Practical	➤ Practical knowledge of photosynthesis , respirations etc.
		BOT-HG-4016	Plant Anatomy and Embryology	➤ Knowledge of the internal structure of plant, process of



				seed formation etc.
		BOT-HG-4026	Economic Botany and Plant Bio technology	➤ Plant resources, their conservations and management.
	Skill Enhancement	BOT-SE-3014	Bio fertilizers (SEC-I)	➤ Concept of bio fertilizer, their productions and uses.
		BOT-SE-3024	Herbal Technology (SEC-I)	➤ Knowledge of herbal product, uses and economic activities etc.
		BOT-SE-4014	Nursery and Gardening (SEC-II)	➤ Detail knowledge of plant nursery, its management and economics.
		BOT-SE-4024	Floriculture (SEC-II)	➤ Knowledge of flower gardening, its management and economic activities.
		BOT-SE-4034	Intellectual Property Rights (SEC-II)	➤ Concept of traditional knowledge system, knowledge of intellectual property rights.

CHEMISTRY

Programme: BSc. Major & General

Programme outcome:

- a. The course enables learners to attain a thorough knowledge in the subject w.r.t. chemical substances in and around us, their behaviour, changes and the newer substances when they react with each others. It also enables them to predict the course of a reaction with the knowledge of the theories behind the formation of a substance, be it organic or inorganic and experimental techniques included in the course.
- b. The course enables the learners to gain knowledge in the industrial application of Chemistry.
- c. The learners would be able to get knowledge of their environment.
- d. The learners would be able to attain knowledge of biological systems including human.
- e. The students will have hands on experience on standard laboratory processes required for experimental investigation of the chemical substances.

BSc. (General/RC/GE)

- a. The learners are expected to attain a general knowledge on chemical substances in and around us, their behaviour, changes and the newer substances when they react with each others. It also enables them to learn the theories behind the formation of a substance, be it organic or inorganic and experimental techniques included in the course.



- b. After completion of the course, students would gain knowledge in the industrial application of the subject.
- c. The students would be able to identify of their surroundings which consists of all types chemicals.
- d. The learners would be able to attain a preliminary knowledge of biological systems including human.
- e. The students will have a basic knowledge on standard laboratory processes.

Programme/course specific outcome:

Programme	CBCS/Non-CBCS	Programme code	Title of the course	Programme outcome
UG (Chemistry)	B.Sc (Non-CBCS)	M 101	Physical Chemistry	Concept of thermodynamics Homogeneous catalysis
		M 102	Organic Chemistry	Addition Reactions, Substitution reactions and Elimination reaction
		M 103	Practical	Solubility of a given salt at different temperatures Water of crystallization Paper chromatographic separation and identification of sugars.
		M 201	Physical Chemistry	Kinetic theory of gases Liquid State Colligative Properties Electrochemistry
		M 202	Organic Chemistry	Conformation of molecules Mechanism of reaction Aliphatic Compounds
		M 203	Organic Practical	Qualitative Organic Analysis Analysis of an organic compound & identification test for Functional groups
		M 301	Structure and Bonding	Basic quantum mechanical ideas Concept of electronegativity
		M 302	Chemical Bonding	Shapes of molecules Molecular orbital theory Huckel' s aromaticity rule



				Band theory Types of solids
		M 303	Practical	Analysis of a mixture of salts containing total of five cations and anions including insoluble salts and interfering anions.
		M 401	Inorganic Chemistry	Properties of Inorganic Compounds Groupwise and periodwise trends Polarization and Fajan's rule Properties of Hydrogen, Diborane
		M 402	Inorganic Chemistry	Bonding in metals Occurrence and principles of extraction Coordination Compounds
		M 403	Practical	Water of crystallization of green vitriol Hardness of water by EDTA titration Inorganic Preparation Mohr's salt Characterization
		M 501	Quantum Chemistry	Postulates of Quantum mechanics. Wave functions, Operators, Eigen functions and eigen values, the Schrodinger postulates Orthogonal and orthonormal wave functions.
		M 502	Physical Chemistry	Collision theory, Activated complex theory; Luminescence phenomenon Photochemistry of air and air pollution.
		M 503	Organic Chemistry	Collision theory Introduction to lasers Laws of photochemical equivalence Luminescence Photochemistry of air and air pollution.
		M 504	Inorganic Chemistry	Symmetry elements and Symmetry operation Crystal field theory Magnetic properties from crystal field theory Molecular orbital theory of octahedral complexes (without and with p bonding IUPAC nomenclature



				Organometallic compounds of Zn, Cd and Hg.
		M 505	Practical	Estimation of inorganic ions by volumetric, complexometric, gravimetric, redox and precipitation methods.
		M 506	Practical	Organic preparation Organic quantitative analysis
		M 601	Spectroscopy	Introduction to Spectroscopy Raman spectra of linear molecules Structure elucidation by IR spectroscopy Electronic spectroscopy Spin resonance spectroscopy NMR spectra Mass spectroscopy
		M 602	Physical Chemistry	Laws of Crystallography Dislocation in solids Macromolecules and Colloids Molecular weight of macromolecules Statistical Thermodynamics
		M 603	Organic Chemistry	Theory of photochemistry Biopolymers Amino acids, peptides and polypeptides Structure of RNA and DNA Drugs-physiological effect of their structure
		M 604	Inorganic Chemistry	Free ion terms and their splitting in octahedral symmetry Principles of colorimetric determination of metals Metalloproteins and their role in photosynthesis Toxicity due to Metal ions Theory of radioactive disintegration Lanthanides & Actinides
		M 605	Practical	Coefficient of viscosity of a given liquid by Ostwald viscometer. Surface tension of a liquid by stalagmometer Specific reaction rate of hydrolysis of methylacetate Debye, Huckel, Onsagar equation for sodium chloride
		M 606	Project Work	Application of basic principles of Chemistry



		E 101	General Chemistry	Covalent bonding Kinetic theory of gases
		E 201	General Chemistry	Hydrocarbons The second law of thermodynamics Definition of phase, component and degrees of freedom. Phase rule
		E 301	General Chemistry	Chemistry of non-transition elements Transition elements Conductometric titrations Transport number of ions and their determination
		E 302	Practical	Qualitative Organic Analysis
		E 401	General Chemistry	Aliphatic and aromatic compounds Electrophilic aromatic substitution Structure, physical properties and differences of Fats, Oils and Soaps. Chemical kinetics and surface chemistry Heterogeneous catalysis-adsorption Ionic equilibrium
		E 402	Practical	Identification of radiicals in a Quantitative Inorganic Analysis
		E 501	General Chemistry	Chemistry of materials Principles of chemical analysis Principles and applications of spectroscopy Nuclear chemistry
		E 502	Practical	Distribution of a component between two immiscible Water of crystallization in hydrated Coefficient of Preparation of Organic compounds
		E 601	General Chemistry	Industrial Chemistry Enzymes in industries Environmental Chemistry Biological Chemistry Natural products and medicines
		E 602	Practical	Hardness of water Kinetics of acid catalysed hydrolysis of ester Preparation of Inorganic compounds



	CBCS	COURSE CODE	COURSE NAME	
		CHE-HC-1014	Inorganic Chemistry-I	<i>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 species.</i>
		CHE-HC-1012	Inorganic Chemistry-Lab	<i>Students will have hands on experience of standard solution preparation in different concentration units and learn volumetric estimation through acid-base and redox reactions.</i>
		CHE-HC-1024	Physical Chemistry-I	<i>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. In the molecular and crystal symmetry unit they will be introduced to the elementary idea of symmetry which will be useful to understand solid state chemistry and group theory in some higher courses. In solid state unit the students will learn the basic solid state chemistry application of x-ray crystallography for the determination of some very simple crystal structures. The students will also learn another important topic "ionic equilibria" in this course.</i>
		CHE-HC-1022	Physical Chemistry-I Lab	Students will learn Surface tension measurements, the variation of surface tension of detergent solutions with concentration, indexing of a given powder diffraction pattern of a cubic crystalline system and pH measurements.
		AAA-HG-1YY4/5	GE-1	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
		AA-HG-1YY 2/1	Generic Elective-1 Practical/Tutorial	Volumetric Analysis Detection of extra elements in organic



				Separation of mixtures by Chromatography
		Ability Enhancement Compulsory Course II		
		CHE-HC-2014	Organic Chemistry-I	Students will be able to identify different classes of organic compounds, describe their reactivity and explain/analyze their chemical and stereo chemical aspects.
		CHE-HC-2012	Organic Chemistry-I Lab	Checking the calibration of the thermometer Purification of organic compounds Chromatography
		CHE-HC--2024	Physical Chemistry-I	In this course the students are expected to learn laws of thermodynamics, thermo chemistry, 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 properties. After completion of this course, the students will be able to understand the chemical systems from thermodynamic point of view.
		CHE-HC-2022	Physical Chemistry-I Lab	Thermochemistry
		AAA-HC-2YY 4/5*	GE-2	After completion of this course the students will be 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. In organic chemistry part, the students are expected to learn various classes of organic molecules-alkyl halides, aryl halides, alcohols, phenols, ethers, aldehydes and ketones.
		AAA-HC-2YYY 2/1	Generic Elective Practical/Tutorial	Calorimeter measurements pH measurements
		CHE-HC-3014	Inorganic Chemistry-II	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. Experiments in this course will boost



				their quantitative estimation skills and introduce the students to preparative methods in inorganic chemistry
		CHE-HC-3012	Inorganic Chemistry-II Lab	Iodo / Iodimetric Titrations Inorganic preparations
		CHE-HC-3024	Organic Chemistry-II	Students will be able to describe and classify organic compounds in terms of their functional groups and reactivity.
		CHE-HC-3022	Organic Chemistry-II Lab	Organic compound analysis
		CHE-HC-3034	Physical Chemistry-III	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. in chemical kinetics unit. After attending this course the students will be able to understand different types of surface adsorption processes and basics of catalysis including enzyme catalysis, acid base catalysis and particle size effect on catalysis
		CHE-HC-3032	Physical Chemistry-III Lab	Determination of critical solution temperature Study the equilibrium
		CHE-SE-3YY4*	SEC-1	Course learning outcomes focus on skill development related to basic computer operations and information technology. After completing the course the incumbent is able to use the computer for basic purposes of preparing his personnel/business letters, viewing information on Internet (the web), sending mails, using internet banking services etc. After opting this course the students are expected to accumulate the skills in writing activities and Handling numeric data.
		AAA-HG-3YY4/5*	GE-3	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.
		AAA-HG-3YY 2/1*	Generic Elective -3 Practical / Tutorial	Distribution Phase equilibria Conductance
		CHE-HC-4014	Inorganic Chemistry-III	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. Students will be able to appreciate the general trends in the properties of transition elements in the periodic table and identify differences among the rows. Through the experiments students not only will be able to prepare, estimate or separate metal complexes/compounds but also will be able to design experiments independently which they should be able to apply if and when required.
		Che-HC-4012	Inorganic Chemistry -III Lab	Gravimetric Analysis Inorganic Preparations Chromatography of metal ions Principles involved in chromatographic separations
		CHE-HC-4024	Organic Chemistry-III	Students shall demonstrate the ability to identify and classify different types of N-based derivatives, alkaloids and hetrocyclic compounds/explain their structure mechanism and reactivity/critically examine their synthesis and reactions mechanism.
		CHE-HC-4022	Organic Chemistry-III Lab	Detection N, S, halogens in organic compounds Functional group test for nitro, amine and amide groups. Qualitative analysis of unknown organic compounds
		CHE-HC-4034	Physical Chemistry-IV	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 of water, conductometric titrations etc. The students are also expected to understand the various parts of electrochemical cells along with Faraday's Laws of electrolysis. The students will also gain basic theoretical idea of electrical & magnetic properties of atoms and molecules.
		CHE-HC-4032	Physical Chemistry-IV Lab	Determination of cell constant Conductometric titrations Potentiometry
		CHE SE-4YY4*	SEC-2	Students will be able to identify various molecules relevant to a particular pathological condition and their estimation protocols.
		AAA-HG-4YY 4/5	GE-4	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. Students will be able to appreciate the general trends in the properties of transition elements in the periodic table



				and identify differences among the rows. Through the experiments students not only will be able to prepare, estimate or separate metal complexes/compounds but also will be able to design experiments independently which they should be able to apply if and when required.
		AAA-HG-4YY2/1	Generic Elective-4 Practical	Gravimetric Analysis: Inorganic Preparations: Chromatography of metal ions
		CHE-HC-5014	Organic Chemistry	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.
		CHE-HC-5012	Organic Chemistry-IV Lab	Estimation of amino acids Isolation and characterization of DNA
		CHE-HC-5024	Physical Chemistry-V	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. The students will also learn chemical bonding in some simple molecular systems. They will be able to understand the basics of various kinds of spectroscopic techniques and photochemistry.
		CHE-HC-5022	Physical Chemistry -V Lab	UV/Visible spectroscopy Colourimetry
		CHE-HE-5YY4	DSE1	After the completion of this course it will help the student to interpret laboratory data, curve fitting of experimental work, also perform quantum mechanical calculations for various molecular models.
		CHE-HE-5YY2	DSE-1 Lab	Computer programs
		CHE-HE-5YY4	DSE-2	On successful completion students will have theoretical understanding about choice of various analytical techniques used for qualitative and quantitative characterization of samples. At the same time through the experiments students will gain hands on experience of the discussed techniques. This will enable students to take judicious decisions while analyzing different samples.
		CHE-HE-5YY2	DSE-2 Lab	Chromatography: Solvent Extractions: Spectrophotometry. Analysis of soil:



		CHE-HC-6014	Inorganic Chemistry-IV	By studying this course the students will be expected to learn about how ligand substitution and redox reactions take place in coordination complexes. Students will also learn about organometallic compounds, comprehend their bonding, stability, reactivity and uses. They will be familiar with the variety of catalysts based on transition metals and their application in industry. On successful completion, students in general will be able to appreciate the use of concepts like solubility product, common ion effect, pH etc. in analysis of ions and how a clever design of reactions, it is possible to identify the components in a mixture. With the experiments related to coordination compound synthesis, calculation of 10Dq, controlling factors etc. will make the students appreciate the concepts of theory in experiments.
		CHE-HC-6012	Inorganic Chemistry-IV Lab	Qualitative semimicro analysis of mixtures UV-visible spectra of complexes
		CHE-HC-6024	Organic Chemistry-V	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.
		CHE-HC-6022	Organic Chemistry-V Lab	Extraction Methods Qualitative analysis of unknown organic compounds Identification of simple organic compounds by IR spectroscopy and NMR spectroscopy
		CHE-HE-6YY4	DSE-3	Students will be able to identify basic components of computer and programming as applied to computer assisted design and modelling of molecules.
		CHE-HE-6YY2	DSE-3 Lab	Knowledge of Chemical bonding
		CHE-HE-6YY4	DSE-4	After the completion of this course it will also be possible for the students to opt for studying an interdisciplinary master's programme with an emphasis on the synthesis and applications of various materials or take up a job in the materials production and/or processing industry.
		CHE-HE-6YY2	DSE-3 Lab/tutorial	Determination of cation exchange capacity.



MATHEMATICS

Programme: BA/BSc. (Major & General) Mathematics (General)

A. Programme outcome:

Mathematics is a subject which is useful and utmost important for all branches of science and humanities.

1. The music of Mathematics brings harmony in mind and everyday life of human being.
2. It creates logical mind and increased the capacity of reasoning.
3. Simplicity is the main character of Mathematics.
4. It is a tool to solve lots of problems faced in social life like the recent fatal outbreak of Coronavirus in China.

B. Programme specific/course specific Outcome:

Programme	CBCS/Non-CBCS	Course Code	Title of the Course	Programme Outcome
UG (Mathematics)	BA/BSc (Non-CBCS)	M 104	Algebra and Trigonometry	<ol style="list-style-type: none"> 1. The knowledge of algebra and trigonometry helps in learning other branches of Mathematics. 2. Helps graduate teachers to teach students of VIII - X standarts the subject Mathematics and sicences
		M 105	Calculus	<ol style="list-style-type: none"> 1. As calculus is the begining to start Differential Equation, students should learn it. 2. Through the Knowledge of Calculus, Problems of Physics and Chemistry can be solved.
		M 204	Co-ordinte Geometry	<ol style="list-style-type: none"> 1. Coordinate Geometry is a subject based on shapes and size of different objects. So to be Engineer one must know it. 2. From coordinate geometry one can draw different models
		M 205	Differential Equation	<ol style="list-style-type: none"> 1. Differential Equation is the basis of solving social problems through



				different parameters. 2. It is tool to study higher Branches of Applied Mathematics.
		M 304	Abstract Algebra	1. Through the knowledge of Abstract Algebra one can understand easily the Computer Science. 2. It helps in higher studies of Mathematics and develop more new branches of science.
		M 305	Linear Algebra and Vector	Linear Algebra is used for Business Purposes and vector the tool which is easy to use in different branches of science, particularly physics and Mathematics.
		M 404	Real Analysis	It is a pure branch of Mathematics. So it helps in understanding starting from Natural Number to Real numbers.
		M 405	Mechanics	1. Mechanics deals with statics and Dynamics of Particles and Rigid Bodies which is part and parcel of our every-day life 2. It helps in studying space objects.
		M 501	Complex Analysis	Complex Analysis helps in studying numbers which arises in solving some equations.
		M 502	Topology	1. Tutcome of studying Topology is that it helps students in studying Computer Science and Graph Theory. 2. It develops different branches of Cartoghaphy, Criminology.
		M 503	Spherical Trigonometry and Astronomy	1. It is a tool to study the objects which is in space. 2. The knowledge of Spherical Trigonometry and Astronomy, will give students an exposure about space and imaginary coordinate system.
		M 504	Rigid Dynamics	1. Rigid Dynamics will helps to know about how rigid body behaves during it course of motion. 2. It helps in getting knowledge of use of differential equations.
		M 505	Probability	1. It helps in getting knowledge of about how a coin is tossed and what is the outcome of it. 2. That the probability has been using by illiterate person.
		M 506	Optimization theory	1. The knowledge of optimization theory helps in doing business.



				2. It is a new branch of Mathematics comperatively.
		M 601	Hydrostatics	1. It helps in studying about floating objects which will be in rest.
		M 602	Numerical Analysis	1. Some problems have no analytical solution, so students need help to study Numerical solution. 2. Numerical Analysis is very much helpful in higher mathematics to be used by students who have desire for higher studies.
		M 603	Computer Programing in C	1. Outcome of learning computer programming in C is valued and essential for day to day life. 2. Students will know that the modern life static without computer knowledge.
		M 604	Discrete Mathematics	1. Discrete Mathematics is other branch of Mathematics which has lots of used in business sector. 2. The knowledge of it will develop business skill of passing out under graduate students.
		M 605	Graph and Combination	1. In Criptography and crime branch the Graph Theory is used which the students should learn. 2. It has lots of scope in higher studies.
		M 606	Project	1. After writing a project, which is a small part of Ph.D. thesis or M. Phil. Dissertation, students will be able to write some- thing in their own language. 2. It helps students in gathering first -hand knowledge of the subject.
		E 101	Classical Algebra and Trigonometry	1. Classical Algebra is a subject which developed first in comparison to other subject of Mathematics, so students after completion of undergraduate degree will be able to learn history of Mathematics. 2. It will help in understanding the laws of use of operation and algebra. 3. Trigonometry is related with plane figures and six trigonometrical ratios, which will help in developing knowledge of other subjects of Mathematics.
		E 201	Abstract Algebra and	1. The basic foundation of systemizing or grouping data is Abstract



			Matrices	Algebra, which helps students in doing works systematically. 2. Matrices have lots of use in different branches of sciences, particularly in Mathematics and Physics.
		E 303	Calculus: Methods and Applications	1. In learning Calculus and its applications, a student will be able to find the area, volume and length of different objects. 2. It will help a lot in developing other branches of sciences.
		E 403	Coordinate Geometry and Vector Analysis	1. Coordinate geometry is the basic of studying different geometrical figures, which will help in studying Architecture, Aeronautics etc. 2. Vector Analysis is tool for studying different physical problems of science.
		E 503	Statics and Dynamics	1. By studying these subjects of Mathematics, one can know the state of a body living or non-living. 2. It will give the knowledge of forces acting on bodies, eg. In case of an Assam type house.
		E 504	Numerical Methods and Spherical Astronomy	1. The outcome of studying numerical analysis is finding the approximate value of some thing, which has no accurate value. 2. Spherical Astronomy helps in finding the location of heavenly body.
		E 603	Linear Algebra and Complex Analysis	1. Linear Algebra helps in finding the value of unknown variables of linear equation. 2. Complex Analysis helps in studying complex and imaginary numbers.
		E 604	Advanced Calculus	1. It is the advance or more deeper than the differential and integral calculus. Students will be able to learn about the use of double-triple integral and gamma – beta functions.
	BA/BSc (CBCS)	MAT-HC-1016	Calculus (Including Practical)	1. The study of this subject will help the students in understanding the different sub-topics of it using Mathematica/ Scilab in Computer Laboratory. 2. Will help the students in using this subject in farther higher studies.
		MAT-HC-	Algebra	1. Algebra is a subject of basic of Mathematics which will help students in studying other subjects.



		1026		2. Will help graduate and TET qualified students who want to be a teacher.
		MAT-HC-2016	Real Analysis	1. Will give an extended knowledge to the students of Mathematics. 2. Will help for higher studies.
		MAT-HC-2026	Differential Equations (Including Practical)	1. Differential Equation is a subject that has numerable applications in different branches of Science, even in Medical Science. 2. Lab. use of differential equation will excite the students and thereby help in studying Mathematics.
		MAT-HC-3016	Theory of Real Functions	1. The topics like limit of functions, differentiability of functions will help the students in farther study
		MAT-HC-3026	Group Theory - I	1. The subject starts from set theory, function and very basic subjects that will help students in running their life sustematically. 2. It will be an abstract sense to the students.
		MAT-HC-3036	Annalytical Geometry	1. This subject helps students in transforming the coordinate system from one to another. 2. Analytical Geometry gives an exposure to shape and size of different bodies.
		MAT-HC-4016	Multivariate Calculus	1. Multivariate Calculus is subject of mathematics where several variables are there. 2. It will help in detecting different several problems accurately.
		MAT-HC-4026	Numerical Methods (Including Practical)	1. The study of Numerical Methods and use of it in laboratory will help the students a lot. It will be used in different problems. 2. Will give a clear concept about the subject.
		MAT-HC-4036	Ring Theory	1. Ring theory is an extended topic of Group theory. Hence helps in structural study of abstract algebra.
		MAT-HC-	Riemanian Integration and Metric Spaces	1. The integration invented by Riemann is a special type of integration over and above general integration. It helps the students in higher



		5016		study.
		MAT- HC- 5026	Linear Algebra	1. The outcome of the linear algebra is that it will help students in higher studies.
		MAT- HC- 6016	Complex Annalysis	1. Complex Analysis helps in studying the complex situation arises in different aspects.
		MAT- HC- 6026	Partial Differential Equations (Including Practical)	1. Partial differential equation will help in studying several variable problems. 2. Will give an exposure to classification and structure of Partial differential equation.
		MAT- SE- 3114	Computer Algebra System and Related Softwere	1. It's relatively a new topic that the students should learn theoretically and practically. The use of Mathematics / Scilab in different field will help the students in understanding this subject.
		MAT- SE- 3124	Combinatorics and Graph Theory	1. The subjects Permutation and Combination are use in everyday life. 2. It helps in higher studies.
		MAT- SE- 4214	R - Programing	R-programm is also a new subject that the students will learn in forth semester in CBCS system, which have practical utilities.
		MAT- SE- 4224	LATEX and HTML	LATEX is Computer software programme that the undergraduate students should learn. HTML is webpage which we use internet searching that a student should require to learn.
		MAT- HE- 5116	Number Theory	1. The learning of this subject will help the student in higher studies. 2. It's a subject of pure mathematics in higher level.
		MAT- HE- 5126	Mechanics	1. 1Mechanics deals with statics and Dynamics of Particles and Rigid Bodies which is part and parcel of our every-day life 2. It helps in studying space object
		MAT-	Probality and Statistics	1. It helps in getting knowledge of about how a coin is tossed and what



		HE-5136		is the outcome of it. 2. That the probability has been using by illiterate person.
		MAT-HE-5216	Linear Programming	1. Linear Algebra helps in finding the value of unknown variables of linear equation.
		MAT-HE-5226	Spherical Trigonometry and Astronomy	1. It is a tool to study the objects which is in space. 2. The knowledge of Spherical Trigonometry and Astronomy, will give students an exposure about space and imaginary coordinate system.
		MAT-HE-5236	Programming in C	1. Outcome of learning computer programming in C is valued and essential for day to day life. 2. Students will know that the modern life static without computer knowledge.
		MAT-HE-6316	Boolean Algebra and Automata Theory	The study of ordered set, it's properties and lattices will help the students in studying the basic of computer, and other new subject of Mathematics.
		MAT-HE-6326	Bio-Mathematics	1. It is a new topic included in Mathematics syllabus. 2. Biological Problems can be solved by Mathematical Tools.
		MAT-HE-6336	Mathematical Modeling	1. The Mathematical Modeling is the clue to study very complex and unreached objects. 2. It is a new subject of Mathematics.
		MAT-HE-6346	Hydromechanics	1. The study of water and bodies floating in water gives rise the Subject Hydromechanics. 2. It helps the fundamentally to imagine water movements.
		MAT-HE-6416	Rigid Dynamics	1. Rigid Dynamics will helps to know about how rigid body behaves during it course of motion. 2. It helps in getting knowledge of use of differential equations
		MAT-HE-	Group Theory - II	1. The Group Theory –II is the advanced level of General Group theory. This is for the students of Mathematics Major that they should



		6426		learn.
		MAT-HE-6436	Mathematical Finance	<ol style="list-style-type: none"> 1. This is completely a new subject for the students of Mathematics that they should learn as a Mathematics students. 2. They will be able to use in Finance.
		MAT-HG-1116	Calculus	<ol style="list-style-type: none"> 1. The study of this subject will help the students in understanding the different sub-topics of it using Mathematica/ Scilab in Computer Laboratory. 2. In learning Calculus and its applications, a student will be able to find the area, volume and length of different objects.
		MAT-HG-1126	Analytic Geometry	<ol style="list-style-type: none"> 1. This subject helps students in transforming the coordinate system from one to another. 2. Analytical Geometry gives an exposure to shape and size of different bodies.
		MAT-HG-2216	Algebra	<ol style="list-style-type: none"> 1. Algebra is a subject of basic of Mathematics which will help students in studying other subjects. 2. Will help graduate and TET qualified students who want to be a teacher
		MAT-HG-2226	Discrete Mathematics	<ol style="list-style-type: none"> 1. Discrete Mathematics is other branch of Mathematics which has lots of used in business sector. 2. The knowledge of it will develop business skill of passing out under graduate students.
		MAT-HG-3316	Differential Equations.	<ol style="list-style-type: none"> 1. Differential Equation is the basis of solving social problems through different parameters. 2. It is tool to study higher Branches of Applied Mathematics.
		MAT-HG-3326	Linear Programming	<ol style="list-style-type: none"> 1. Linear Algebra helps in finding the value of unknown variables of linear equation. 2. Linear Programming is a Method of solving so many linear equations.
		MAT-	Real Analysis	<ol style="list-style-type: none"> 1. give an extended knowledge to the students of Mathematics.



		HG-4416		2. Will help for higher studies.
		MAT-HG-4426	Numerical Analysis	1. Studying Numerical Analysis, which is a branch of , students will be able to problems numerically. 2. This will give an of sample survey and playing dices.

PHYSICS

Programme: BSc. Major & General

A. Programme outcome:

The UG physics major course of Gauhati University has been prepared in extensive way so as to acquaint the students with multiple trends of technology of modern science. The over all programme outcomes of this course are as follows :

1. This course has increased the student’s knowledge in the field modern technology.
2. This course has enhanced the students to increase their creativity.
3. This course is proved to highly successful in intensifying the students imaginative process through the inclusion of Model demonstration.

B. Programme Specific Outcome:

Programme	CBCS/ Non-CBCS	Course code	Title of the course	Outcome
UG (Physics)	B.Sc (Non-CBCS)	M 101	Mathematical Methods-I	This paper helps students to find out the accurate results of a particular observation in the field of science



			Mechanics	It increase the knowledge of students in the field of moving bodies..
		M 102	Waves and Oscillation	This paper gives the knowledge about the production and propagation of waves
			Ray Optics	This contents improve the knowledge of students about the formation of images
		M 103	Practical	It enhances the practical knowledge about the theories of physics.
		M 201	Mathematical Methods-II	This paper helps students to find out the accurate results of a particular observation in the field of science.
			Properties of Matter	This paper gives the knowledge of static and dynamic states of fluids.
		M 202	Heat and Thermodynamics	It enhances the knowledge of application of heat energy
		M 203	Practical	It enhances the practical knowledge about the theories of physics
		M 301	Mathematical Methods-III	This paper helps students to find out the accurate results of a particular observation in the field of science
			Electrostatics	This paper gives the knowledge of charged body.
		M 302	Current Electricity	It enhances. the knowledge of application of electric current.
			Magnetostatics	It enhances the knowledge of magnetic energy
		M 303	Practical	It enhances the practical knowledge about the theories of physics.
		M 401	Mathematical Methods-IV	This paper helps students to find out the accurate results of a particular observation in the field of science
			Introduction to Computer and	This paper helps students about the introduction of computer science.



			Computer Language	
		M 402	Wave Optics	This paper gives the knowledge of assembling o light spectrum.
			Special theory of Relativity	Gives the knowledge o the relative motion o objectives
		M 403	Practical	I t enhances the practical knowledge about the theories of physics
		M 501	Mathematical Methods-V	This paper helps students to find out the accurate results of a particular observation in the field of science
			Classical Mechanics	It increase the knowledge of students in the field of moving bodies
		M 502	Atomic Physics	Gives the knowledge of molecular structure of materials
		M 503	Quantum Mechanics	Gives the knowledge of details dynamic structure of molecules of materials.
			Astrophysics	This paper gives the knowledge of details study of heavenly bodies.
		M 504	Electronics	Gives the knowledge of electronic circuit and electronic devices.
		M 505	Practical	I t enhances the practical knowledge about the theories of physics
		M 506	Practical	I t enhances the practical knowledge about the theories of physics
		M 601	Nuclear Physics	Gives the knowledge of production of nuclear energy.
		M 602	Mathematical Methods-IV	This paper helps students to find out the accurate results of a particular observation in the field of science
			Solid State Physics	Gives detail structural knowledge of solid bodies.
		M 603	Modern Optics	This paper gives the knowledge of assembling o light spectrum.
			Electromagnetic Theory	Gives the knowledge of theory of electromagnetic waves.
		M 604	Statistical Mechanics	Gives the knowledge of physical phenomenon of large numbers of atoms and molecules and energy distribution



				among them.
			Computer Applications	Gives the knowledge of different way for finding the results by using computer.
		M 605	Practical	It enhances the practical knowledge about the theories of physics
		M 606	Practical	It enhances the practical knowledge about the theories of physics
		E 101	Mechanics	It increase the knowledge of students in the field of moving bodies
			Properties of Matter	Gives the knowledge of physical properties of matter.
			Waves and Oscillation	This paper gives the knowledge about the production and propagation of waves
		E 201	Current Electricity	It enhances the knowledge of application of electric current.
			Electrostatics	This paper gives the knowledge of charged body.
			Magnetism	It enhances the knowledge of magnetic energy
		E 301	Heat	It enhances the knowledge of application of heat energy
			Thermodynamics	It enhances the knowledge of application of heat energy
		E 302	Practical	It enhances the practical knowledge about the theories of physics
		E 401	Optics	Gives the knowledge of study of light energy.
		E 402	Practical	It enhances the practical knowledge about the theories of physics
		E 501	Atomic Physics	Gives the knowledge of molecular structure of materials
			Mathematical Physics	This paper helps students to find out the accurate results of a particular observation in the field of science
			Relativity	Gives the knowledge o the relative motion o objectives
			Renewable Energy Sources	It gives the knowledge of use of energy sources without pollution.
		M 502	Practical	It enhances the practical knowledge about the theories of



				physics
		M 601	Nuclear Physics	Gives the knowledge of production of nuclear energy
			Electronics	Gives the knowledge of electronic circuit and electronic devices.
			Electromagnetic waves	Gives the knowledge of theory of electromagnetic waves
			Solid State Physics	Gives detail structural knowledge of solid bodies
		E 602	Practical	It enhances the practical knowledge about the theories of physics
UG (Physics)	B.Sc (CBCS)	PHY-HC-1016	Mathematical Physics I	This paper helps students to find out the accurate results of a particular observation in the field of science
	Core Paper	PHY-HC-1026	Mechanics	It increase the knowledge of students in the field of moving bodies..
		PHY-HC-2016	Electricity & Magnetism	It enhances the knowledge of application of electric current and study of magnetic energy.
		PHY-HC-2026	Waves & Optics	This paper gives the knowledge of assembling o light spectrum.
		PHY-HC-3016	Mathematical Physics II	This paper helps students to find out the accurate results of a particular observation in the field of science
		PHY-HC-3026	Thermal Physics	It enhances the knowledge of application of heat energy
		PHY-HC-3036	Digital Systems & Applications	It gives the knowledge of digital signals and its uses
		PHY-HC-4016	Mathematical Physics III	This paper helps students to find out the accurate results of a particular observation in the field of science
		PHY-HC-4026	Elements of Modern Physics	This paper gives the knowledge of molecular structure of materials
		PHY-HC-4036	Analog Systems & Applications	It gives the knowledge of analogue signals and its uses
		PHY-HC-	Quantum Mechanics &	Gives the knowledge of details dynamic structure of



		5016	Applications	molecules of materials.
		PHY-HC-5026	Solid State Physics	Gives detail structural knowledge of solid bodies.
		PHY-HC-6016	Electromagnetic Theory	Gives the knowledge of theory of electromagnetic waves
		PHY-HC-6026	Statistical Mechanics	Gives the knowledge of physical phenomenon of large numbers of atoms and molecules and energy distribution among them.
	DSE	PHY-HE-5016	Experimental Techniques	Enhances the students in the field practical
		PHY-HE-5026	Embedded Sys: Introduction to Microcontrollers	Gives the basic knowledge of micro devices and intrigated circuit chip
		PHY-HE-5036	Advanced Mathematical Physics I	This paper helps students to find out the accurate results of a particular observation in the field of science
		PHY-HE-5046	Physics of Devices and Instruments	Gives the basic knowledge of electronic devices and components and principles of electronic instrumentations.
		PHY-HE-6016	Communication Electronics	Gives the basic knowledge of electronic communication systems
		PHY-HE-6026	Digital Signal Processing	It gives the knowledge of digital signals and its uses
		PHY-HE-6036	Advanced Mathematical Physics II	This paper helps students to find out the accurate results of a particular observation in the field of science
		PHY-HE-6046	Biophysiscs	Physical application in biology.
		PHY-HE-6056	Astrophysics	This paper gives the knowledge of details study of heavenly bodies
	GE	PHY-HG-1016	Mechanics	It increase the knowledge of students in the field of moving bodies
		PHY-HG-2016	Electricity & Magnetism	It enhances the knowledge of application of electric current and study of magnetic energy



		PHY-HG-3016	Thermal Physics & Statistical Mechanics	It enhances the knowledge of application of heat energy and physical phenomenon of large numbers of atoms and molecules and energy distribution among them
		PHY-HG-4016	Waves & Optics	This paper gives the knowledge of assembling o light spectrum.
	SEC	PHY-SE-3014	Renewable Energy and Energy Harvesting	It gives the knowledge of use of energy sources without pollution
		PHY-SE-4014	Basic Instrumental Skill	This paper gives the basic knowledge of uses of various instruments.

ZOOLOGY

Programme: BSc. Major & General

Programme Outcome:

1. Unfolding the magnitude of diversity as it exists in non-chordate and chordate world.
2. Improving an advent and evolutionary sequence from unicellular Protozoans to multi cellular mammals.
3. Exposure of the students to the evolutionary history.
4. Develop understanding on the past and present forms of animals.
5. Inculcation of knowledge on this fascinating world of biosphere.
6. Improve the skills of the students through the hands on practical works.

Programme/Course Specific Outcome:



UG (Zoology)	CBCS/Non CBCS	Course Code	Course Title	Outcome
	BSc. (Non-CBCS)	M101	Biostatistics and Taxonomy	<ul style="list-style-type: none"> • Knowledge on use of biostatistics in research. • Knowledge on proper identification of organisms • Identification of bio indicators of an environment. • Use in bio-conservation. • Knowledge on testing the experimental results.
		102	Animal Diversity	<ul style="list-style-type: none"> • Knowledge on diverse invertebrates • Know the basis of classification. • Identification characteristics for ground level • Know the various forms of animals. • Knowledge on different systems of invertebrates.
		201	Animal Diversity-II Chordates	<ul style="list-style-type: none"> • Knowledge on diverse vertebrates • Know the basis of classification of vertebrates. • Knowledge on Identification characteristics • Know the various forms of vertebrates. • Knowledge on different systems of vertebrates
		201	Ecology, wildlife conservation and Management	<ul style="list-style-type: none"> • Knowledge about Environment • Knowing the components of Environment • Importance of Wildlife and their conservation. • Knowledge on conservational status of organisms • General knowledge on habit reaction.
		301	Comparative Anatomy and Histology	<ul style="list-style-type: none"> • Knowledge on comparative accounts of various systems among vertebrates • Histological studies of tissues. • Histological implications for distribution of chemical substances. • Structural components of various systems. • Implications of dyes in fabric industries.



		302	Cell Biology	<ul style="list-style-type: none"> • Cellular make up of tissues. • Knowledge on Cell components • Knowledge on cell junctions, linkages. • Interaction among different cells or cell coordination. • Cellular malfunctions.
		401	Developmental Biology	<ul style="list-style-type: none"> • Knowledge on early embryonic development • Day-wise growth and development • Maternal-Foetal linkages • Growth and developmental activities in animals • Mal functioning of gametes.
		402	Genetics	<ul style="list-style-type: none"> • Knowledge on various gene expressions. • How to determine gene linkage • How does Crossing over result in variation • Molecular basis of mutation • Sexuality and recombination of DNA
		501	Animal Physiology	<ul style="list-style-type: none"> • Digestion and absorption of dietary components • What are the properties and functions of respiratory pigments? • Types of heart . • Anatomy and physiology of nerve system • Osmoregulation in vertebrates.
		502	Biochemistry & Bioenergetics	<ul style="list-style-type: none"> • Knowledge of chemical foundation of biology • Give the knowledge and biological significances of carbohydrates, Proteins and lipid • Assembly pf macromolecular complexes • Nature and classification of Enzymes



				<ul style="list-style-type: none"> • Theories of oxidative phosphorylation.
		503A	Endocrinology & Immunology	<ul style="list-style-type: none"> • Knowledge of the Endocrine glands • Classification of Hormones and their characters • Basic immunological concepts • Components of immune system. • Antigen –antibody reaction
		503B		
		504A	Biological Techniques' and Biostatistics	<ul style="list-style-type: none"> • Principal and uses of Analytical Instruments • Use of radioisotope in biology. • What are the scope and importance of statistics? • How statistics is related with the study of population genetics ? • Use of computers in biology
		504B		
		505A	Practical	<ul style="list-style-type: none"> • To determine the human blood group • To determine the total count RBC and WBC • Study of cardiac cycle in frog • Differential count of WBC • Estimation of haemoglobin.
		505B		
		506A	Practical	<ul style="list-style-type: none"> • Estimation of glucose ,total soluble proteins and total lipids. • Detection of enzyme activity • Estimation of Ascorbic acid in lemon • Detection of presence of vitamin A



		506B		<ul style="list-style-type: none"> • Detection of mono –di-polosaccharides
		601	Animal Behavior	<ul style="list-style-type: none"> • Gathering the knowledge of Ethology. • Various methods of etological studies. • Knowledge and behavioural pattern • Motivational knowledge • Knowledge of learning
		602	Evolution and Adaptation	<ul style="list-style-type: none"> • Origin of life • Theories of organic evolution • Evolution of man • Geological time scale • Principals of adaptation
		603C	Economic Zoology	<ul style="list-style-type: none"> • Knowledge of sericulture • Knowledge of apiculture • Knowledge of aquaculture • Knowledge of lac culture • Knowledge of pest and pest management
		603D		
		604C	Biotechnology, Bioinformatics and Computer applications	<ul style="list-style-type: none"> • Tissue culture • Gene libraries • Cloning • Computer aided techniques • Operating system DOS, UNIX
		604D		
		605C	Practical	<ul style="list-style-type: none"> • Identification of various silkworm • Study of honey bee • Study of different types of pest • Dissection of pituitary • Slide preparation of honey bee



		605D		
		606C	Project	<ul style="list-style-type: none"> • Visit report of adv. Lab. • Submission of life cycle of eri,muga ,honey incalcation of knowledge on local fishes • Exposure of students to a new lab • To gather knowledge on various forms and developmental stages
		606D		
		101	Biosystematics, Taxonomy, WL Conservation and Management	<ul style="list-style-type: none"> • Knowledge about use of biosystematics • Knowing the components of Environment • Importance of Wildlife and their conservation. • Knowledge on conservational status of organisms <p>General knowledge on conservation biology</p>
		201	Ecology, Evolution and Adaptation	<ul style="list-style-type: none"> • Knowledge on History of Ecology • Knowledge on adaptation • Knowledge of community charecteristic • What are the types of Ecosystem? • How ecology is applied in wildlife conservation
		301	Animal Diversity-I Non-Chordates	<ul style="list-style-type: none"> • Classification of invertebrates • Know the basis of classification. • Identification characteristics for ground level • Know the various forms of animals. • Knowledge on different systems of invertebrates.
		302	Animal Diversity-I Non-Chordates	<ul style="list-style-type: none"> • Practical knowledge on dissection of invertebrates • Identifying quality • Studying museum specimens for preservation of dead specimens



				<ul style="list-style-type: none"> • Develop the art quality. • Depth of knowledge on subject matter through viva.
		401	Animal Diversity-II Chordates	<ul style="list-style-type: none"> • Studying diverse vertebrates • Know the basis of classification of vertebrates. • Knowledge on Identification characteristics • Know the various forms of vertebrates. • Knowledge on different systems of vertebrates
		402	Animal Diversity-II Chordates	<ul style="list-style-type: none"> • Knowledge on diverse vertebrates hands on • Osteological knowledge. • Knowledge on inner environment by dissection. • Identification of specimens • Practical knowledge on overall paper
		501	Cell Biology, Genetics & Developmental Biology	<ul style="list-style-type: none"> • Knowledge on cell junctions, linkages. • Interaction among different cells • How to determine gene linkage • How does Crossing over result in variation • Molecular basis of mutation
		502	Cell Biology, Genetics & Developmental Biology	<ul style="list-style-type: none"> • Study of cell type • Mitotic characteristics • Meiotic characteristics • Nuclear variation • States of development of birds
		601	Physiology, Biochemistry and Endocrinology	<ul style="list-style-type: none"> • Physiology of inner environment. • Types of heart . • Anatomy and physiology of nerve system • Osmoregulation in vertebrates. • Endocrine coordination



		602	Physiology, Biochemistry and Endocrinology	<ul style="list-style-type: none"> • Knowledge of chemical foundation of biology • Give the knowledge and biological significances of carbohydrates, Proteins and lipid • Assembly pf macromolecular complexes • Nature and classification of Enzymes • Theories of oxidative phosphorylation.
	BSc. (CBCS)	ZOO-HC-1016	Non Chordates I: Protista to Pseudocoelomates	<ul style="list-style-type: none"> • Knowledge on diverse acoelomate invertebrates • Basics of classification. • Identification characteristics. • Knowledge the various forms of animals. • Knowledge on different systems of acoelomate.
	Honours Course	ZOO-HC-1026	Principles of Ecology	<ul style="list-style-type: none"> • History of Ecology • Knowledge of Unitary and modular populations • Knowledge of community charecteristic • What are the types of Ecosystem? • How ecology is applied in wildlife conservation
		ZOO-HC-2026	Non Chordates I: Coelomates	<ul style="list-style-type: none"> • Knowledge on diverse coelomate invertebrates • Basics of classification of coelomate. • General and specific knowledge on characteristics for proper identification. • Knowledge the various forms of animals. • Knowledge on different systems of coelomate
		ZOO-HC-2026	Cell Biology	<ul style="list-style-type: none"> • Knowledge on Cellular make up of organs. • Knowledge on various Cell components • Knowledge on cell junctions and coordination.



				<ul style="list-style-type: none"> • Cellular malfunctions. • Knowledge on carcinogenic cells.
		ZOO-HC-3016	Diversity of Chordates	<ul style="list-style-type: none"> • Studying diversity of chordates • Know the basis of classification of chordates. • Knowledge on Identification characteristics • Know the various forms of chordates. • Knowledge on different systems of chordates
		ZOO-HC-3026	Physiology: Controlling and coordinating systems	<ul style="list-style-type: none"> • Physiology of Nerve • Signalling system in human body • Coordinating systems • Controlling system. • Composition of blood
		ZOO-HC-3036	Fundamental of Biochemistry	<ul style="list-style-type: none"> • Study of biomolecules • Study of enzymes • Knowledge on cellular respiration • Significance of ATP from energy point of view • Chemical nature of action potential
		ZOO-HC-4016	Comparative anatomy of Vertebrate	<ul style="list-style-type: none"> • Comparative anatomy of vertebrates • Balancing systems in vertebrates • Anatomy of brain in vertebrates • Ostological comparison • Biochemistry of metabolic process
		ZOO-HC-4026	Physiology Life Sustaining systems	<ul style="list-style-type: none"> • Knowledge on nervous regulation • Forms of disease • Physiological regulation • Respiratory activities • Endocrinal coordination



		ZOO-HC-4036	Biochemistry of Metabolic process	<ul style="list-style-type: none"> • Glycolytic reactions • Differtiation of anabolic and catabolic reaction • Energy formation system • Knowledge on ATP as energy currency
		ZOO-HC-5016	Molecular Biology	DNA and RNA replication knowledge Formation of Nucleic acids. Trancriptional units Translation of Proteins Protein sysnthesis mechanisms
		ZOO-HC-5026	Principles of Genetics	<ul style="list-style-type: none"> • Genetical knowledge • How to determine gene linkage • How does Crossing over result in variation • Molecular basis of mutation Sexuality and recombination of DNA
		ZOO-HC-5036	DSE-I	Gaining knowledge in Bioinformatics Utililizing statics in biology Computational statistical knowledge Use of computers in biology Software skills in biology
		ZOO-HC-5046	DSE-II	Generate a overview on biotechnology Cell revival knowledge Radioisotpe and ints health hazards Histological slide study Working principle of microscope
		ZOO-HC-6016	Developmental Biology	To create a generalized knowledge on Development Embryonic characteristics Neural Development



				Learning processes Growth and development basics
		ZOO-HC-6026	Evolutionary Biology	Origin of life Evolutinary evidences Variation and evolutionary knowledge gaining Population and genetical implications To generate overall concept on evolution
		ZOO-HC-6036	DSE-III	Variation in insect morphology Insect Identification Physiological knowledge Taxonomy of Insects Features of insect with social quality
		ZOO-HC-6046	DSE-IV	Gaining a knowledge on human reproduction Reproductive health Female health management Consequences of reproduction Herval products in reproduction
	BSc. (CBCS)	ZOO-RC-1016	ANIMAL DIVERSITY	<ul style="list-style-type: none"> • Knowledge on invertebrates • Know the basis of classification. • Identification characteristics for ground level • Know the various forms of animals. • Knowledge on different systems of invertebrates.
	Regular Course	ZOO-RC-2016	COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES	<ul style="list-style-type: none"> • Histological studies of tissues. • Histological implications for distribution of chemical substances. • Structural components of various systems. Implications of dyes in fabric industries.
		ZOO-RC-3016	PHYSIOLOGY AND BIOCHEMISTRY	<ul style="list-style-type: none"> • Physiology of inner environment. • Knowledge on Types of heart . • Anatomy and physiology of nerve system



				<ul style="list-style-type: none"> • Osmoregulation in vertebrates. • Endocrine coordination
		ZOO-RC-4016	GENETICS AND EVOLUTIONARY BIOLOGY	Genetical variation in evolution Evolution and species formation
		ZOO-RE-5016	DSE 1 ANIMAL BIOTECHNOLOGY	Improvement in varieties Knowledge on gene transfer PCR use knowledge Handling knowledge of instruments
		ZOO-RE-5026	DSE 2 APPLIED ZOOLOGY	Knowledge on Apiculture Knowledge on sericulture Getting knowledge on pests Pest control mechanisms
		ZOO-RE-6016	DCE 3 AQUATIC BIOLOGY	Knowledge on marine biology Ecosystem knowledge Knowledge of aquatic resources Economy and aquatic biology
		ZOO-RE-6026	DSE 4 INSECT, VECTORS AND DISEASES	Identification of pests IMP mechanisms ITK knowledge Diseases caused by insects Control of vectors and generalized knowledge