Program outcomes, program specific outcomes and course outcomes of B. AProgramme

Department of Assamese

Programme Specific Outcome:

1. Students will be able to understand the basic concept and knowledge of Assamese language and Literature.
2. The department will enhance students' mental power in arriving at any decision analytically and critically.
3 Student will be able to understand the basic concept of Language and Assamese Language.
4 The department will increase critical understanding/thinking of the students in the light of Indian Literature and Assamese Literature.
5 The study of Assamese Literature will acquaint students with various modern western and Indian writers who write so many famous books in their life.
6 The subject intends to imbibe classical Indian literature values, Religious text in students' life.
7 Students will able to learn Assamese proof reading by reading this course.
8 By reading Assamese, Major Students will able to understand the History of Assamese Short story, Novel, Poetry and Drama etc.
9 The subject enabled students to values of human.
10 The subject also helps students to understand the concept of world literature.

Course Outcome
HONOURS(CORE)

Course Code	Outcomes
ASMM C-1 (History of Assamese literature)	After completion of the course students will be able to 1) Have a close to acquaintance with history of Old and Medieval Assamese Literature as a whole. In this paper they learned about Assamese Folk Literature and written literature early age.
ASMM C-2 (History of Assamese literature	1) By reading this course students will able to understand the history of modern Assamese literature and the concept and trends of contemporary Assamese literature.
ASMM C-3 (Introduction to Linguistics)	1) This course helps students to understand the basic concept of linguistics. Without basic concept of linguistics, students cannot proceed to other part of language paper.

ASMM C-4 (Poetics)	After completion of the course students will be able to--- 1) Understand the basic theory of Indian Aesthetics and its history.
ASMM C-5 (Literary Criticism)	After completion of the course students will be able to- 1) Identify, compare and distinguish the concept of literature. They could know about the definition of literature and the various part of literature. 2) They know about theory all branches of literature.
ASMM C-6 (Selection from Assamese poetry)	1) Reading these course students can understand the history of Assamese poetry and Trends. 2) Students will be able to acquaint themselves with various poems and poets of Assamese literature.
ASMM C-7 (Studies on the culture of Assam)	After completion of the courses students will be able to- 1) Understand the basic concept of Culture. 2) North East is culturally very rich and student can easily understand the culture of all Tribes of north-east. 3) This course helps to understand the life style, food habit, rituals and all other thing about north-east tribes.
ASMM C-8 (Theory and practice of Comparative Literature)	After completion of the course students will be able to- 1) Students will able to understand the concept of comparative literature history and theory. 2) Critically evaluates and explain recent development in Indian comparative literature and world literature.
ASMM C-9 (Indi-Aryan language and Assamese)	1) This course educate students to create the knowledge of Indo-Aryan language and literature. 2) It helps to understand the grammatical trends of Sanskrit language and development of Assamese language.
ASMM C-10 (Selection from Assamese Prose)	The course will help students to understand the trends and history of Assamese prose. By reading selected part of Assamese prose students can understand the glorious history of Assamese prose.
ASMM C-11 (Assamese Drama)	After completion of the course students will be able to- 1) Critically evaluates and explain recent development of Assamese drama. 2) Understand the difference between old Assamese drama and new Assamese drama. 3) The course also can gives idea about knowledge of acting and forms of drama.
ASMM C-12 (Studies on Assamese Linguistics)	1) The course helps students to understand Assamese Linguistic. 2) The course help student to know sentence structure of Assamese language. 3) The course enabled students to value the values of

	grammatical side of language.
ASMM C-13 (Selection from Assamese Prose)	1) The course helps students to know the various Assamese literatures such as short story, Novel, Biography and autobiography, travel literature, science literature.
ASMM C-14 (Language and Script of Assam)	After completion of the course students will be able to- 1) Understand the history of Indo-Aryan language with special reference to Assamese language. 2) History of Assamese script, other languages script and its trends.

Ability Enhancement Compulsory Course.(AECC)

Course Code	Outcomes
AECC-(2-Credit) (Communicative Assamese)	1. This is a common course for all (Arts, Science and Commerce. By reading this course students can know the communication skill of writing and speaking which is very important to present life. This course help students to pronunciation of Assamese words, vocabulary , making Assamese sentence, vocal sound etc.

Skill Enhancement Course (Students select only one course both of them)

Course code	Outcomes
SEC-1 (Creative Writing/Travel and tourism)	1) CRW:-By reading this course students can learn about the definition and writing skill (poetry, drama, novel, short story etc.) 2) Travel and tourism:-By this course students can learn about history of tourism, important of tourism, how to making tourism industry etc.
SEC-2 (Creative Writing/Travel and Tourism)	1) CRW:-By reading this course students can earn depth of knowledge about Old media, New media, History of media, Definition of media, Globalization, As tool for social change, Impact of music industry, National security etc. 2) Travel and Tourism:-Students can learn from this course about Management of tourism, system of tourism, Kind of tourism package of Tourism etc.

A. Discipline Specific Elective(DSE)

Course Code	Outcomes
DSE-1(Assamese Grammar, Lexicon and Idiomatic Usages)	This course source of depth knowledge about Assamese pronunciations, Assamese spelling, Assamese Lexicon and its use, use of Assamese Idiomatic usages in daily life. Basically this paper can clear concept Assamese grammar.

DSE-2 (Introduction To Indian Literature)	By reading this course students can able to understand the concept of Indian literature, Indian author, and various types of literary activity.
DSE-3 (Introduction To world Literature)	"World Literature" is a modern concept in literary work all over the world now-a-days. By reading these course students able to understand the concept of world literature by reading various types of literary work by various writers.

DSE-4(A) Special Author DSE-4(B) Project.	A) By reading this course student able to understand specially one prominent writer of Assam. There are five authors in this course and student can select any one. They can widely know about the life and literary work of the author by reading this course. B) It is a project paper. Student can know from this course how to do research work. But it is compulsory for student they should select research topic, research methodology, field study etc. This course helps students to future in Research.

Generic Electives (For students opting other than Assamese as honours subject)

Course Code	Outcomes
GEI(A) (Performing Arts) GEI(B) Culture of Assam And Cultural Tourism)	After completion of the course students will be able to-(A) Have the basic concepts of performing art, knowledge, categories of performing arts and variety of performing art. They can also learn about folk musical instruments and its use by reading this course. B. Have the basic concept of cultural tourism of Assam. There so many opportunities in Assam for cultural tourism and industry. Students can understand this area by reading this course.
GE-2 Teaching of Assamese Literature)	After completion of the course students will be able to-1) Familiarize themselves with the basic idea of Assamese Literature Teaching. They can understand the objectives of Assamese Literature teaching, how to making of lesson plan and how can help lesson plan in literature teaching.
GE-3 (Teaching of Assamese Language)	After completion of the course students will be able to-1)Have the basic concepts of teaching of Assamese Language, important of language teaching, method of teaching, reading, writing and hearing of Assamese language. They can familiar with Assamese grammar by reading this course.
GE-4 (Sociology of Assamese Literature)	After completion of the course students will be able to acquaint themselves with basic concept of sociology of literature. Sociology of literature is a new concept for literary theory and it is going popular day by day. Students learn sociology of literature in the context of Assamese literature. They can understand the basic concept and basic ideas about sociology of literature by reading this course.

Department of Economics:

1. Programme: B.A. Honours in Economics.
2. Programme outcome :-
   a. It will help the students to know about the basic problems of Economics.
   b. It will provide basic knowledge of economics, which again help the nation as a whole.
   c. As a academic discipline economics help the students to lead their carries as research, economics, professor teacher social activist.

Course outcome:

Semester	Course	Course outcome
1st Semester	Course – 101 Microeconomics	This paper is to develop the understanding of some basic concept of microeconomics to enhance the economic reasoning of the learners to analyses the behavioral patterns of different economic agents. To provide opportunity to the students to deal with the advanced theoretical issues and the practical applications.
2nd Semester	Course – 201 Macroeconomics	This course enable to know the basic concepts of Macroeconomics like saving, investment, GDP, money, inflation and balance of payment
3rd Semester	Course- 301 Microeconomics	The course is design to expose the students to the basic principles of Microeconomic Theory
	Course- 302 Statistical method in Economics	It develops the notion of probability followed by a discussion on sampling techniques used to collect survey data
4th Semester	Course – 401 Mathematics for Economics	The course provides particular economic models are not the end, but the means for illustrating the model of applying mathematical technique to economic theory in general
	Course – 402 Public Economics	The course provide multi-dimensional knowledge of public economics
	Course – 501	This course introduces some issues on development, its theory and models. So it will provide adequate knowledge about the

	Development Economics with Indian perspective	issues
5th Semester	Course – 502 Public Economics: Policy Issues	This course is to acquaint the learners with fiscal policies designed for developed and developing economics with a special trust to the federal system of India
	Course – 503 History of Economic thought	The course is to acquaint the students with historical developments in the economic thought.
	Course – 504 Monetary theory and financial market.	This course design to acquaint the students with some basic concepts relating to monetary analysis and financial marketing.
	Course – 601 Development Economics with Indian Perspective – II	The course design to acquaint the students with a development issues of Indian Economy
6th Semester	Course – 602 Environmental Economics	The course will acquaint the students with the basic concepts of environmental economics along with the solution to the environmental problems.
	Course – 603 International Economics	It will acquaint the students with both real and monetary side of International Economics
	Course – 604 Economic issues of Assam	The course is to acquaint the students with the characteristics of the Economy of Assam and the students will be able to know the performance and problems primary, secondary and tertiary sectors of Assam.

Department of History:

1. Programme Specific Outcome:
    - Students will develop an informed familiarity with multiple cultures and their identity
    - Students will understand the basic skills that historians use in research and writing.
    - Students will develop the ability to distinguish between fact and fiction while understanding that there is no one historical truth.
    - Students will demonstrate their understanding of knowledge of the general chronology of human experience.
    - Students will understand the importance of international politics in the past and present.
    - Students will able to understand the History of Assam and North East.

2. Course Outcome:

Sl.No	Semester	Course Code	Title of the Paper	Course Outcome
1	B.A 1st	HISM 101	Introduction to History and its sources	The objective of this course is to introduce the students to the basics of the discipline of History and acquainted them to the understanding of its sources in their varied forms, contents, uses and analysis.
2	B.A 2nd	HISM 201	Early and Medieval Assam upto 1826	To give a general outline of 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. It aims to acquaint the students with major stages of developments in the political, social and cultural history of the state during the most important formative period.
3	B.A 3rd	HISM 301	History of Assam: 1826-1947	The course aims at introducing the students to understanding the focus and aspects of changes and developments in the socio- political and economic life in Assam during the colonial period.
		HISM 302	Social and Economic History of Assam	1. To acquainted the students with the development of caste, social classes and occupational groups in Ancient Assam, the religion Beliefs and Practice. 2. Land grant, Trade, Society, the Neo-Vaishnavite Movement Patriarchy, Satra Institutions 3. Agriculture and trade in Medieval Assam, the growth of Modern Education and role of the Missionaries, Middle Class, Agriculture, Tea Industry development of literature and press and growth of Public Association and Transport System in Colonial Assam.
4	B.A 4th	HISM 401	History of India (From the Earliest time to 1200 AD)	The paper intends to acquaint the students with the emergence of state system in north India, the development of imperial state structure, the state formation in the Deccan and in South India in the early period. The paper will apprise the students with the changes and transformations in polity, economy and society in the early period and the cultural interactions of early India with the South East Asian Countries.
		HISM 402	History of India: 1200-1750 AD	The objective of the paper is to acquaint the pupils with political development in India between 1200- 1750. It requires the pupils to understand the States in Medieval Times,

				Administrative apparatus and society, economy and culture of India in Pre- Modern Period
5	B.A 5th	HISM 501	History of India: 1750-1947 AD	This paper tries to highlight the major factors that led to the establishment and consolidation of the British rule in India. It also tries to see the process of the growth of nationalist movement, which ultimately led to the end of the British rule in the country.
		HISM 502	History of Europe: 1453-1815 AD	This paper is to acquaint the undergraduate students about the major trends and developments that took place in Europe which ushered in the Modern Age.
		HISM 503	History of Europe: 1815-1945	To acquaint the students with the major political developments in Europe from 1815 to 1945. This course aims to bring to the students an understanding of the courses of transition of the continent from nation states to the major colonial powers.
		HISM 504	Tourism I North East India: Historical Dimensions	The paper intends to give the students an idea about Tourism in North East India with special reference to historical monuments and places of the north eastern region of the country as heritage sites of the nation. It aims to acquaint them with the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth.
6	B.A 6th	HISM 601	History of Ecology and Environment in India	This course intends to acquaint the students with the new discipline of ecological and environmental history. It intends to familiarize them with the relation between ecology and human civilization with particular reference to post independence India. It also attempts to bring the pupils to the understanding of the social and economic conflicts emerging due to environmental factors.
		HISM 602	Women in Indian History	This course is to describe the Feminist Movement, the key concepts in women's studies as well as sources for reconstructions of Women's History. It will also describe the status of Women in Indian Society during the Vedic and Medieval period. Further the Reform Movement as well as the role of women in India's Freedom Struggle will be dealt with.
		HISM 603	World Revolution	This course is to introduce the students to the significant historical changes in the socio-

				political and economic life in the world beginning with 17th century European enlightenment to the coming of Globalisation.
		HISM 604	History of Science and Technology in India	This paper is to acquaint the students with the developments in Indian science and technology since early times in order to create in them an understanding of the country's contributions towards the growth of scientific research and technological developments in the world.
7	B.A 1st	HISG 101	History of Assam: 1228-1826 AD	To give a general outline of 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. It aims to acquaint the students with major stages of developments in the political, social and cultural history of the state during the most important formative period.
8	B.A 2nd	HISG 201	History of Assam: 1826-1947 AD	To acquainted the students with the socio-political and economic developments in Assam during the Colonial regime. It also deals with the growth of Nationalism and the role of the Provinces in the National Movement for independence.
9	B.A 3rd	HISG 301	History of Europe: 1453-1815	The objective of this paper is to acquaint the student with the major developments in European politico- economic scenario since Renaissance till the end of the French Revolution.
10	B.A 4th	HISG 401	History of India From the Earliest times to 1526	The objective of the paper is to acquaint the students with the general outline of the History of India from the known earliest times to the coming of the Mughals to India in the first quarter of the 16th Century. It aimed at giving them a comprehensive idea of the developments in all spheres of life during this period.
11	B.A 5th	HISG 501	History of India: 1526- 1947	This paper aims to acquaint the students with the general course of events in the field of political, social, cultural and economic affairs in India from the foundation of the Mughal Empire in 1526 till Independence in 1947
12	B.A 6th	HISG 601	Women in Indian History	This course is to describe the Feminist Movement, the key concepts in women's studies as well as sources for reconstructions of Women's History. It will also describe the status of Women in Indian Society during the Vedic and Medieval period. Further the Reform Movement as well as the role of women in India's Freedom Struggle will be dealt with.

Department of Political Science:

Programme specific Outcomes:-

1. Political Science focuses on the theory and Practices of government and Politics at the Local, State, National and International Levels.
2. Political Science Studies make people aware of their rights and obligations.
3. The Primary function of the study of this course is to Provide the understanding of politics and government, which are two of the more important forces in human life and society.
4. Political Science is very useful and valuable. Its knowledge is essential and useful to both the ruler and the ruled.
5. It helps to establish strong citizenship and to ensure national unity.

Sl. No	Semester	Paper Code	Title of Paper	Course outcome
1	B.A. 1ST Major	PSCM-101	Western Political Thought	The course is designed to introduce the students to the contribution of the main traditions of western political thinkers to political thought.
2	B.A. 2nd Major	PSCM-201	Indian Government and politics	The basic objectives of the course are to acquaint the students of Political Science with the processes and dynamics of Indian polities. Apart from familiarizing students with the processes and dynamics of Indian Polities the course also aims at introducing the students to some of the vital contemporary emerging issues of our times such as changing pattern or centre-State relations changing role of political parties emergence of new leadership at different levels. Demand for autonomy movement, separatist movement ethnic conflicts etc.
3	B.A 3rd Major	PSCM-301	Public Administrative	The main objective of the course is to acquaint the students of Political Science with the basic concept, principal and dynamics of Public Administration. A part from familiarizing students with the fundamental concepts. The course also aims at introducing the students to some of the vital contemporary concerns of our times such a New Public Administration etc.
4	B.A 3rd Major	PSCM-302	International Relations	The course is designed to acquaint the students with important theories and issues of International Relations which will help them to have a proper understanding of the contemporary international issues .
5	B.A 4th Major	PSCM-401	Comparative Politics	The basic objectives of this paper arc to introduce the students with the diverse political systems especially the developed countries along with China and Switzerland. Besides in order to acquaint them with the innovative concepts incorporated in this syllabus which are also important from competitive examination perspective and others such NET SLET.
6	B.A 4th Major	PSCM-402	Politics of North East India with	The primary aim of this paper is acquaint with the students with the sensitive peripheral states of India that

			special Reference to Assam	has attracted the attention of the social scientists since a few years back, Moreover, being the citizens of the Northeast region it is invariably the concern of the students to have proper understanding of their own area.
7	B.A 5th Major	PSCM-501	Political Theory	This paper aims at providing the students with the knowledge of the basic concepts and ideological orientations of the discipline. It also acquaints the students with the development of the discipline.
8	B.A5th Major	PSCM-502	Indian Political Thought	The course is designed to introduce the students to the contribution of the main traditions of Indian political thinking to political thought.
9	B.A. 5th Major	PSCM-503	Indian Foreign Policy	The purpose of the course is to acquaint the students with the evolution, Development and trends of India's foreign policy.
10	B.A 5th Major	PSCM-504	International Law	The course is designed to acquaint the students with the basics of International law and the new trends in the realm of International law.
11	B.A 6th Major	PSCM-601	Human Rights	The course will provide the basic concepts and issues concerning human rights and will acquaint the students with the contemporary challenges.
12	B.A 6th Major	PSCM-602	Introduction to Women's Studies	The course is designed to generate sensitization for women's issues and problems it will try to introduce the basic concepts and theories to facilitate the understanding of women's studies. The course will also try to introduce the students to Women's activism in India and the West.
13	B.A 6th Major	PSCM-603	Administration of Rural Development in India	Rural Development as the emerging focus of modern Development Administration gains much more importance and significance in the Third World Countries. Development of rural areas has been one of the paramount concerns of the successive Five-year plans.The main objective of this course is to familiarize the students with problems and prospects of rural development in India. It will enable them to understand the approaches to rural development, objectives of the various RDPs, implementing Agencies, infrastructure to rural development etc.
14	B.A 6th Major	PSCM-604	Indian Administration	The basic objectives of the course on Indian Administration seek to familiarize the students with the cultural, social, political, economics and constitutional environment as a historical perspective of Indian Administration. It will help the students to develop a broad perspective to understand the nature, character and behaviour of Indian administration. The course will help the students to know various changes and developments, trends and patterns emerging in Indian administration.

Department of Sociology:

PROGRAMME SPECIFIC OUTCOME:

a. As an academic discipline sociology helps the students to know about human behaviour, institution and culture of the society.
b. Sociology provides knowledge to understand social problems, human right issues, and world around us. It also helps to maintain awareness of society.
c. Sociology helps the students to lead their carrier as researcher, sociologist, professor, teacher, social welfare officer, child development programme officer etc.,

COURSE OUTCOME:

Semester	Course	Course Outcome
1st sem Sociology Honours	Course 01: Introduction to Sociology –I	Course Introduce the students to a sociological way of thinking and provides basic foundation of sociology.
	Course 02: Sociology Of India-I	Provides key concepts and institutions which are useful for the understanding of Indian society.
2nd sem Sociology Honours	Course 03: introduction to sociology-II	Course provides a general introduction to sociological thought. Course focuses mainly on original texts and gives the students a flavor of how over a period of time thinkers have conceptualized various aspects of society.
	Course 04: sociology of India –II	Course provides variety of ideas and debates about India and critically engages with the multiple socio-political forces and ideologies which shape the terrain of the nation.
3rd sem Sociology Honours	Course 05: Political Sociology	Course introduces the students to some major theoretical debates and concepts in Political Sociology,.
	Course 06: Sociology of Religion	The course lays primacy to the understanding of religious over individual religions. Course provides basic relationship among the individual, society and religion.
	Course 07: Sociology of Gender	The course introduces gender as a critical sociological lens of enquiry in relation to various social fields. It also interrogates the categories of gender, sex, and sexuality.
4th sem Sociology Honours	Course 08: Economic Sociology	The course provides an understanding of the social and cultural bases of economic activity. It highlights the significance of sociological analysis for the study of economic processes in local and global contexts.

	Course 09: Sociology of Kinship	This course aims to introduce general principles of kinship and marriage by reference to key terms and theoretical statements substantiated by ethnographies. The course looks at the trajectories and new directions in kinship studies.
	Course 10: Social Stratification	This course introduces students to Sociological Study of Social Inequalities. It acquaints students with principal theoretical perspectives on and diverse forms of Social inequality in articulation with each other.
5th sem Sociology Honours	Course 11: Sociological Thinkers -I	The course introduces the students to the classics in the making of the discipline of sociology through selected texts by the major thinkers.
	Course 12: Sociological Research Methods -I	Course provides the student with some elementary knowledge of the complexities and philosophical underpinnings of research.
	Discipline Specific Elective : Agrarian Sociology	This course explores the traditions of enquiry and key substantive issues in agrarian sociology. Course provides knowledge about various agrarian issues of India as well as world.
	Discipline Specific Elective : Sociology of Work	Course provide an outline as to how values and ideals of pluralized industrialism have caused an absorbed multiple transformative shifts to the local and global social networks of the contemporary world.
6th sem Sociology Honours	Course 13: Sociological Thinkers II	Introduce students to post-classical sociological thinking.
	Course 14: Research Methods II	Course is an introductory course on how research is actually done. With emphasis on formulating research design, methods of data collection, and data analysis, it provides students with some elementary knowledge on how to conduct both, quantitative and qualitative research.
	Discipline Specific Elective : Sociology of Health and Medicine	The course introduces students to the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge.
	Discipline Specific Elective : Societies in North East India	Course provides a multi-dimensional understanding of North East India with respect to social, historical, political and economic

		dimensions. This course also provides a sociological understanding of the specificity of world views of diverse communities along with the emerging socio economic processes of the region.

(Non CBCS)

AQAR POINT 2.6.1 (SOCIOLOGY)

1. PROGRAMME OUTCOME : B.A Major in Sociology
2. PROGRAMME SPECIFIC OUTCOME:
   a. As an academic discipline sociology helps the students to know about human behaviour, institution and culture of the society.
   b. Sociology provides knowledge to understand social problems, human right issues, and world around us. It also helps to maintain awareness of society.
   c. Sociology helps the students to lead their carrier as researcher, sociologist, professor, teacher, social welfare officer, child development programme officer etc.,
3. COURSE OUTCOME:

Semester	Course	Course Outcome
1st Sem Sociology	SOCM-101-Principles of Sociology	Provides basic foundation of sociology.
2nd Sem Sociology	SOCM-201-Indian Social System	Course provides variety of ideas and debates about India
3rd Sem Sociology	SOCM-301-Theoritical Perspective in Sociology	The course introduces the students to major thinkers of sociology and their contribution to sociology.
	SOCM-302-Sociology of Social Change	Course provides knowledge about major factors of social change and also discuss about the hindrance of social change.
4th Sem Sociology	SOCM-401-Social Survey, Research and Statistics	Course provides elementary knowledge and philosophical underpinnings of research.
	SOCM-402-Social Problems and Welfare	Course provide knowledge about major social problems and remedial measures adopted by government to solve the problems
5th Sem Sociology	SOCM-501-Society of Development	Course provides knowledge about verity of issues of development.
	SOCM-502-Society in North	Course provides a multi-

	East India	dimensional understanding of North East India and its culture, ethnic groups etc.,
	SOCM-503-Understanding Social Psychology	Course provide knowledge about human behaviour, social interaction etc.,
	SOCM-504-Sociology of Mass Communication	Course provides knowledge about mass communication and its impact on everyday life of the people.
6th Sem Sociology	SOCM-601-Globalization and Society	Course introduces students to a sociological understanding of globalization, its dimensions and impact of globalization in political, social, cultural and economic life of the people.
	SOCM-602-Science, Technology and Society	Course provides knowledge about the impact of science and technology on society and human life.
	SOCM-603-Sociology of Industry	How industry is a social system and how industrialization impact of human society etc., are the major concern of this course.
	SOCM-604-Sociology of Health and Hospital Management	Course provides knowledge about health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge.

2018-2019
Department of English B.A.
The programme specific Outcome

Sl. No.	Semester	Paper Code	Title of paper	Course outcome
1.	B.A. 1st Sem.	101	General English –I	The aim of this paper is impart some of the basic skill in written communication to the student. While a course in English grammar has not been prescribed, the student is expected to have a sound knowledge of grammar. Apart from learning the use of language, the student would be expected to practise the different modes of writing and classes shall have be devoted to working out of exercises by the students. The guidelines for writing of reports, notes, memos and other specified items shall have to be given in specific classes.
		101	Alte – I	Students opting for this paper are expected to have some command over the English language. There skills in writing and literary appreciation would be tested and they would be encouraged to develop individual idioms. This paper comprising of poems by English, American and Italian writers is indented to familiarize the students with poetry as a genre and also to appreciate the cultural and social backgrounds against which thease masterpiecs were produced.
2.	3rd Sem.	201	General English – II	This paper shall help the students to appreciate different kinds of creative writing and also inculcate desirable social values. These literary texts may be exploited by preparing supportive materials which will facilitate the simultaneous development of language and communication skill as well.
		201	Alte – II	This paper shall help the students to appreciate different kinds of creative writing and also inculcate desirable social values. The non-fictional prose is expected to acquaint the students with the ideas of famous writer and thinkers. The clarity of perception in each of these writers is expected to act. As a guiding framework for the students in search in idiom. Writing assignments should be given to the students on a regular basis.
3.	B.A. 3rd Sem.	301	Communication Skill	The aims of this paper is to prepare students for competitive examinations and to enable them to develop skills and abilities that may be necessary for there feature academic and professional needs and interests. These objective are sought to be realized by systematically sequencing the course content of language comprehension, composition,

				grammar and oral communication, and providing intensive practice in these component.
4.	B.Com 3rd	301	ALTE – I	This paper aims at integrating literature and language for effective communication. Students opting for this paper are excepted to have some command over the English language. The paper is designed to hone the skills imparted by the compulsory paper on English Communication. As such, attention shall be paid to the business of using the language for communication with clarity and confidence. Regular writing assignments should be given to the students as part internal assessment. It is excepted that the students of Commerce shall learn the art business communication with the register integral to the discipline.
5.	B.A. 4th Sem.	401	Alte – III	This paper aims to familiarize students with literary genres such as fiction and short stories so as to develop the skills necessary for appreciation and interpretation of literature the novel by the American writer is expected to introduce the students to the American difference in literature. The short stories by some of the famous Indian writers shall open up chapters from India's rich past. They shall also introduce the students to different narrative styles adopted by the writes concerned.

Department of English B.A/B.Com.
The programme specific Outcome

Sl. No.	Semester	Paper Code	Title of paper	Course outcome
1.	B.A. 1st Sem.	10310	AECC – 1 English Communication	It is hoped that after studying this course, students will find a difference in their personal and professional interactions. The recommended reading given at the end are only suggestive; the students and teachers have the freedom to consult other materials on various units/ topics given below. Similarly, the questions in the examination will be aimed towards assessing the skills learnt by the students rather than the textual content of the recommended books.
		10320	AECC – 2 Alte	Vibrant Hues provide a fascinating insight into the worldviews of eminent political thinkers, cultural theorists and literary and exponents of the West and the East. The reason for including two genres-non-fiction (prose extracts) and fiction (short stories)-in one book is to underscore both. Prose is considered to be a narrative where factual representation is given greater importance, while short story is a narrative in which imagination is privileged over facts. Despite this difference, it needs to be acknowledged that both strive to encapsulate the human condition in its vibrant hues and varied nuances. Therefore, we have taken special care to curate a selection of prose pieces and short stories to encompass a kaleidoscopic range from reason to imagination.
2.	3rd Sem.	201	General English – II	This paper shall help the students to appreciate different kinds of creative writing and also inculcate desirable social values. These literary texts may be exploited by preparing supportive materials which will facilitate the simultaneous development of language and communication skill as well.
		201	Alte – II	This paper shall help the students to appreciate different kinds of creative writing and also inculcate desirable social values. The non-fictional prose is expected to acquaint the students with the ideas of famous writer and thinkers. The clarity of perception in each of these writers is expected to act. As a guiding framework for the students in search in idiom. Writing assignments should be given to the students on a regular basis.
3.	B.A. 3rd Sem.	301	Communication Skill	The aims of this paper is to prepare students for competitive examinations and to enable them to develop skills and abilities that may be necessary for there feature academic and professional needs and interests. These

				objective are sought to be realized by systematically sequencing the course content of language comprehension, composition, grammar and oral communication, and providing intensive practice in these component.
4.	B.Com 1st Sem	Course Code - I	English Writing Skills - I	The course enhances the skills of reading, writing, speaking and listening. It encourages recognition and awareness of different genres like the short story, poetry, feature articles, etc. topical and social themes form an integral part of the course. The course teachers the students speaking and listening skills in class and tests these skills for a constant monitoring of their proficiency. The course broadens the horizons of the text by project work which is flexible, and enhances the creativity of the student. The course uses activities centred on translation for students, and gives them a composite view of multiculturalism. By the end of the two-semester course the learner should have sufficient vocabulary to read and understand tape scripts/read aloud, speak fluently and narrate at length with minimal errors in syntax.
5.	B.Com. 3rd Sem.	Course Code - III	Alte – III	Blooming Dales is an anthology of selected English poems, prose pieces and short stories by writers belonging to different ages and countries that traverses through a variety of genres, themes, and fictional tapestries. It is an amalgamation of three prominent genres of English literature – poetry, prose and short stories, which attempts to provide an insight into the works of several renowned poets and authors from all over the world. All the selected texts are representations of different cultures, traditions and values through varied setting and characters. Thus, the book will give the readers a comprehensive idea on the flavor of three genres of literature, i.e. poetry, prose and short story. Further, the readers will have a clear understanding of the issues having contemporary relevance pertaining to human race, class, gender and environment.

2020-2021

Department of English B.A/B.Com.

The programme specific Outcome

Sl. No.	Semester	Paper Code	Title of paper	Course outcome
1.	B.A. 1st Sem.	10310	AECC – 1 English Communication	It is hoped that after studying this course, students will find a difference in their personal and professional interactions. The recommended reading given at the end are only suggestive; the students and teachers have the freedom to consult other materials on various units/ topics given below. Similarly, the questions in the examination will be aimed towards assessing the skills learnt by the students rather than the textual content of the recommended books.
		10320	AECC – 2 Alte	Vibrant Hues provide a fascinating insight into the worldviews of eminent political thinkers, cultural theorists and literary and exponents of the West and the East. The reason for including two genres-non-fiction (prose extracts) and fiction (short stories)-in one book is to underscore both. Prose is considered to be a narrative where factual representation is given greater importance, while short story is a narrative in which imagination is privileged over facts. Despite this difference, it needs to be acknowledged that both strive to encapsulate the human condition in its vibrant hues and varied nuances. Therefore, we have taken special care to curate a selection of prose pieces and short stories to encompass a kaleidoscopic

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DEPARTMENT OF COMMERCE (Non-honours)

B.COM (NON-CBCS)

Programme Outcomes (POs)

For the year **2018-2019**

Sadiya College is affiliated to Dibrugarh University. Thus, the college follows the guidelines and syllabus prescribed by the university.

PROGRAMME OUTCOMES :

The course is designed to provide the students with a wide range of managerial skills and understanding in streams like finance, accounting, taxation and management that are considered essential for facing the challenges of the rapidly changing environment in the field of trade, industry and commerce.

PO Number	Upon completion of the programme, the graduates will be able to
PO-1	possess adequate knowledge of adapting to the changes in the flexible business world
PO-2	focus internationally and acquire full understanding of various market-relevant aspects
PO-3	prepare themselves to sustain as a corporate employee or as an entrepreneur
PO-4	gain a comprehensive knowledge of core subjects like accounting, law, statistics, finance,marketing just to name a few
PO-5	by goodness of preparation, turn into a Manager, Accountant, Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, StockAgents and so on.

PROGRAMME SPECIFIC OUTCOMES :

PSO Number	Upon completion of the programme, the graduates will be able to
PSO-1	understand the role of business in the economy and its implications on society
PSO-2	understand the conceptual knowledge of accounting, conventions and policies
PSO-3	understand the concept of business communication and public relation
PSO-4	understand the concept of micro and macro economics and its application to business
PSO-5	understand various tax procedures and taxation policies
PSO-6	understand the different forms of organisation
PSO-7	understand the structure and classification of the financial market
PSO-8	understand the basic concept of marketing and its trends and tactics.

COURSE OUTCOMES :

SEMESTER I :

Course Code	Title	Course Outcomes
(BUCN I)	Business Communication-I	• Acquaints the learners with the effective business communication skills • Familiarises the learners with various practices in business communications
(BRFW II)	Business Laws	• provides a brief idea about the framework of Indian business law • familiarizes the learners with various Acts, such as Sale of Goods Act 1930, Consumer Protection Act 1986, Industrial Disputes Act 1948 to name a few
(FACC III)	Financial Accounting	• Imparts knowledge on the subject and its application to business • provide the need for preparation of financial statements
(BENV IV)	Business Environment	• Acquaints the learner with the emerging issues of business at national and international levels with emphasis on liberalization and globalisation. • Provides theoretical framework of business environment

SEMESTER II :

Course Code	Title	Course Outcomes
(BUCN V)	Business Communication-II	• Provides the learners to develop effective business communication skills among them • Enables learners to write reports effectively anddevelops their interviewing skills.
(BECO VI)	Business Economics	• Acquaints learners with the principles of business economics as are applicable in business • Provides an understanding on market structure
(COAC VII)	Corporate Accounting	• Imparts reasonable knowledge to enable the learners to pursue the subject in conformity with the Companies Act, 2013 • provides knowledge on the evaluation of financial statements of different companies.
(PBMT VIII)	Principles of Business Management	• Familiarises the learners with the basis of Principles of management • Enables them to learn significant element of management

SEMESTER III :

Course Code	Title	Course Outcomes

(HRMT IX)	Human Resource Management	• Provides theoretical knowledge about HRM and itsdifferent aspects • Imparts knowledge on recruitment process and purposes
	MIL- Hindi MIL- Assamese MIL- Bengali Alte. English	
(BUST XI)	Business Statistics	• Acquaints learners with reasonable working knowledgeon statistics • Familiarise the concepts of central tendency and dispersion
ITAB - XII OR ITPB- XII	IT and its Application in Business OR IT Practices in Business	• ITAB familiarises the learners with the innovations in ITand how it affects business • ITAB enables the learners to understand the practical applications of computer as a part of IT OR • ITPB familiarises the learner with the concepts of ITand how these are in practice in business • Provides the fundamentals of computers and its components

SEMESTER IV :

Course Code	Title	Course Outcomes
(COAC XIII)	Cost Accounting	• Acquaints the learners with the concept, nature and scopeof cost accounting • Provides cost accounting methods and techniques usedin business
(COLW XIV)	Company Law	• Impart basic knowledge of the provisions of the Companies Act 2013 • creates understanding of basic requirements for incorporation of a company
(AUDG XV)	Auditing	• Imparts knowledge about the principles and methods of auditing and their applications • Familiarises the learners with the recent trends in auditingand auditors communication
(IBSM XVI)	Indian Banking System	• Provides the learner with the reasonable knowledge of banking system in India • Familiarises the learner with the development of bankingin India • preparation of balance sheet of commercial banks • Provides knowledge on formation of capital structure of business organisation

SEMESTER V :

Course Code	Title	Course Outcomes
(PUFC XVII) OR (MATS XVII)	Public Finance OR Mathematics	• Acquaint learners about the financial administration of the Govt. and some special issues of public finance • Familiarises the learners with the budgetary control system and its techniques OR • Enables the students to have the minimum knowledge of mathematics as is applicable to business and economics situation
(ENDP XVIII)	Entrepreneurship Development	• Prepares learners as such where they view entrepreneurship as a desirable and feasible careeroption • Enables learner to build the necessary competencies and motivation for a career in entrepreneurship
(MAA CXIX)	Management Accounting	• Facilitates the learners of an understanding of the application of accounting techniques for management • Provides learners with the tools and techniques of management accounting
(PMTG XX)	Principles of Marketing	• Enables learners to understand the concept ofmarketing and its application • Enables learners to understand consumer behaviourand market segmentation

SEMESTER VI :

Course Code	Title	Course Outcomes
(INT X XXI)	Income Tax	• Acquaints students with the basic of income tax laws • Familiarises the students upon the computation ofincome from salary and house property
(INBU XXII)	International Business	• Acquaints students with international business with reference to Indian Foreign Trade and Policy • Provides an understanding on import and export policiesin India
(IFSM XXIII)	Indian Financial System	• Acquaints students with the mechanism of IndianFinancial System • Provides an understanding on banking institution and financial markets
(SBMT XXIV)	Small Business Management	• Provides an understanding about various activities, problems and decisions involved in doing small business • Acquaints the learners about marketing management of small enterprises

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Program Outcomes, Program Specific Outcomes andCourse Outcomes of B. Sc. Course

Program Outcomes of B. Sc. Course:

Sadiya College, Chapakhowa offers B. Sc. (Hons.) Degree in CBCS Mode in five subjects viz., Botany, Chemistry, Mathematics, Physics and Zoology.

The programme outcomes of B. Sc. Course are as follows:

- The B. Sc. Programme will help to develop scientific temperaments among the students, which will help them to build a positive mindset as well as a helping attitude towards the society as a whole.
- This Programme will help them to inculcate qualities of critical thinking as well as will help them to develop the skills of scientific communications.
- This programme will also help students to enhance their employability for jobs in different sectors.
- This will also help the students to pursue higher academic as well as research studies in different Universities.
- Self-motivating and inspiring team members to engage with the team objectives by using management skills.
- Ability to think, acquire knowledge and skills through logical reasoning and to inculcate the habit of self-learning.
- Ability to identify unethical behavior and adopting objective, unbiased and truthful actions in all aspects of their programme.

Program Specific Outcomes and Course Outcomes of B. Sc. Botany (Hons.)

Program Specific outcome: Botany is the branch of biology that basically deals with the study of plants. It has major practical applications in the field of theoritical and practical research. It is the root of many applied subjects such as agriculture, forestry, medicinal biology, microbiology, biotechnology and environment protection. Students studying in the BSc (Botany) program can have scopes both in research and other employability. Students also have the scope in entrepreneurship.

Course outcome:

Semester	Paper	Outcome

I	Microbiology and Phycology	This course provides knowledge on various forms of microbes and algae - their characteristics and economic importance.

Semester	Paper	Outcome
	Biomolecules and Cell Biology	This course exposes molecular organisations of life and also discusses cellular and molecular processes of life.
II	Mycology and Phytopathology	The objective of this course is to give insight on the fungal world, different fungal diseases; their economic importance etc.
	Archegoniate	The objective of this course is to give details of Bryophyte, Gymnosperms and Fossil Plants
III	Anatomy of Angiosperms	This course exposes the students on the structural and anatomical organisations of plant tissues and their development
	Economic Botany	The objective of this course is to study various economically important plants and plant products
	Genetics	This course impart knowledge of the principles of heredity and different mechanisms of inheritance
IV	Molecular Biology	The students come to know about biolomolecules and various processes involved with their synthesis and their importance in biological system
	Plant Ecology & Phytogeography	This course teaches students various interactions of plants with their surroundings and also the geographic distribution of different plants
	Plant Systematics	The objective of this course is to expose the students to identification, classification and nomenclature of higher plants
V	Reproductive Biology of Angiosperms	The aim of this course is to expose the students to the process and mechanisms of plant reproduction
	Plant Physiology	The objective of this course is to expose the students to different physiological processes in plant life
VI	Plant Metabolism	The aim of this course is to give details to various metabolic processes involved with plant life
	Plant Biotechnology	The objective of this course is to expose the students to application of modern tools and techniques in Biology

Program Specific Outcomes and Course Outcomes of B. Sc. Chemistry (Hons.)

PROGRAMME SPECIFIC OUTCOME:

After the successful completion of the B.Sc. programme with Chemistry as the core subject the students would be well acquainted/trained up with adequate text book knowledge in chemistry with some hands-on experiences. Some major outcome of this programme is outlined as:

Imparts the knowledge of basic organic chemistry and the functional groups responsible for certain chemical reactions. Had knowledge about various organic compounds including aliphatic and aromatic organic compounds. Preparation, physical and chemical properties and reactivity's of those compounds that include the understanding of reaction mechanism. Have idea about some natural products and the importance of medicinal plants across our surroundings. Understands the theory and physical importance of photochemistry, and will be empoweredwith laboratory techniques/methods in the synthesis of organic compounds.

Will have an idea and understand about the states of matter, chemical and statistical thermodynamics, kinetics and electrochemistry. Empowers students with the knowledge of classical and quantum mechanics. Imparts knowledge about atomic structure and chemical bonding. Enrich students witha glimpse of knowledge in molecular spectroscopy and other analytical tools for studying the structure of a molecule. Imparts the ability to understand the essential elements in biology. Students will be equipped with the knowledge to estimate inorganic ions by volumetric, complexometric, graviometric and precipitation method along with the preparation of organic compounds and inorganic complexes. Capable of determining various physical properties such as viscosity, surface tension, solubility, etc. By the end of the programme students become capable of undertaking project work.

Course Outcomes

Semester	Course code	Course name	Outcome
I	**CHEMISTRY-C-101** **CHEMISTRY-C-101-PRACT**	**Inorganic Chemistry – 101** *Atomic Structure and Chemical Bonding*	Comes up with the basic concept relates to atomic and molecular structure, chemical bonding and periodic properties. Will have hands-on training in preparing the standard solutions of different concentrations and estimation of metal ions through

Semester	Course code	Course name	Outcome
			acid-base titration and redox reactions.
	CHEMISTRY-C-102 CHEMISTRY-C-102- PRACT	**Physical Chemistry – 102** *States of Matter and Ionic Equilibrium*	Kinetic molecular model of a gas, behaviour of real gases etc. Effect of addition of various solute on surface tension and viscosity. Cleansingaction of detergents.Nature of solid state, elementary idea of symmetry.Idea of solubility and solubility product of sparingly soluble salts.
II	**CHEMISTRY-C-201 CHEMISTRY-C-201- PRACT**	**Organic Chemistry-201** *Hydrocarbons and Stereochemistry*	Knowledge of basic organic chemistry,definition,classification ofstereoisomerism, optical activity, absolute and relative configuration etc. Knowledge of elimination reaction, electrophilic and nucleophilic addition. Relative stability of cyclic hydrocarbon, Bayer's strain theory etc.
	CHEMISTRY-C-202 CHEMISTRY-C-202-PRACT	**Physical Chemistry – 202** *Chemical Thermodynamics and Its Applications*	The application of mathematical tools to calculate thermodynamic properties. The concept of free energy change and spontaneity.Thermodynamics derivation of relation between Gibbs free energy of reactionand reaction quotient. Derive relation between the four colligative properties using chemicalpotential.
III	**CHEMISTRY-C-301 CHEMISTRY-C-301-PRACT**	**Inorganic Chemistry-301** *s- & p-block Elements and Metallurgy*	Predict the purification of metal, study of compounds with emphasis onstructure, bonding, preparation and properties.Real world applications, shapes etc of noble gas.Structural aspects and applications of inorganic polymer
	CHEMISTRY-C-302 CHEMISTRY-C-302-PRACT	**Organic Chemistry – 302***Halogen & Oxygen Containing Functional*	The prediction of mechanism for organic reactions. How to design synthesis of organic molecule.The reactivity and stability of organic molecule based on structure. An idea of alcohols, phenols, carbonyl compounds, acids and their derivatives etc
	CHEMISTRY-C-303 CHEMISTRY-C-303-PRACT	**Physical Chemistry – 303** *Phase Equilibria and Chemical Kinetics*	Types of catalysis, Michaelis – Menten mechanism, mechanism of catalyzed reaction at solid state. Steadystate approximation in reaction mechanism.Concept of phases, phase diagrams for systems of solid- liquid

Semester	Course code	Course name	Outcome
			equilibria involving eutectic, congruent and incongruent melting point, solid solution etc.
IV	**CHEMISTRY-C-401 CHEMISTRY-C-401-PRACT**	**Inorganic Chemistry – 401** *Coordination Chemistry and its Applications*	To predict the metal ions present in biological systems. Understand the use of chelating agents in medicine. Understand the quantitative aspect of ligand field and MO theory, stability of various oxidation states and EMF of transition elements.
	CHEMISTRY-C-402 CHEMISTRY-C-402-PRACT	**Organic Chemistry – 402** *Heterocyclic Chemistry*	Develops the knowledge on the preparation of heterocyclic compounds and polynuclear hydrocarbons. Understand the reaction and mechanism of substitution in heterocyclic compounds. Will learn to elucidate the structure of terpenoids.
	CHEMISTRY-C-403 CHEMISTRY-C-403-PRACT	**Physical Chemistry – 403** *Electrochemistry*	Have the basic knowledge on Faraday's laws of electrolysis. To understand the application of conductance measurement. Students learn to develop the basic knowledge on electrical and magnetic properties of atoms and molecules.
V	**CHEMISTRY-C-501 CHEMISTRY-C-501-PRACT**	**Organic Chemistry – 501** *Biomolecules*	The chemical basis for biological phenomena and cellular structure. Acquires knowledge on the chemical properties of amino acids, co-factors and sugar and enzyme kinetics. Have idea about the different aspects of biological chemistry.
	CHEMISTRY-C-502 CHEMISTRY-C-502-PRACT	**Physical Chemistry – 502** *Quantum Chemistry and Spectroscopy*	Apprehends the difference between classical and quantum mechanics. Acquires knowledge on qualitative treatment of hydrogen atom and hydrogen-like ions. Able to interpret spectra.
	CHEMISTRY-DSE-501	Analytical Methods in Chemistry	To acquire knowledge on the principles and applications of modernchemical instrumentation, experimental design and data analysis.To understand the composition of written laboratory reports that summarizes experimental procedures and the accurately present and interprets data.To understand the qualitative and quantitative aspect of solvent extraction, chromatographic method of analysis -TLC & HPLC.

Semester	Course code	Course name	Outcome
	CHEMISTRY-DSE-502	**Green Chemistry**	Concept and principles of of green chemistry and the use of safer chemicals. Idea about atom economy and the use of green solvent. The use of greenchemistry in our day to day life.
	CHEMISTRY-DSE-503	**Research Methodology for Chemistry**	Literature survey and writing scientific article. Imparts the knowledge of statistical methods of data analysis and hypothesis testing.
VI	**CHEMISTRY-C-601 CHEMISTRY-C-601-PRACT**	**Inorganic Chemistry –601** *Organometallic Chemistry*	Basic principles involved in analysis of anions, cations solubility product,common ion effect etc. Inorganic reaction mechanism. Use of Wilkinson's catalyst in industrial process of hydrozenation of alkene, gassynthesis by metel carbonyl. Hapacity of organic ligands, 18-electron rule, Zeise's salt etc.
	CHEMISTRY-C-602 CHEMISTRY-C-602-PRACT	**Organic Chemistry – 602** *Spectroscopy, Dyes and Polymers*	Application of UV, IR, NMR spectroscopy, mass spectra in organic molecules. Biological importance of carbohydrates.Biodegradable polymer, colour and constitution of dyes andapplications ofdifferent dyes.
	CHEMISTRY-DSE-601	*Inorganic Materials of Industrial Importance*	Properties and the types of different glasses, ceramics and cements. Different types and manufacture of fertilizers, composition of paint pigments.Working principle of different batteries, elements present in alloys, differenttypes of steel etc.
	CHEMISTRY-DSE-603	*Dissertation*	Students will have exposure to research career and various analytical tools and acquire knowledge to summarize project outcomes.

Program Specific Outcomes and Course Outcomes of B. Sc. Mathematics (Hons.)

Program Specific Outcomes	After completion of the B.Sc program in Mathematics students will be able 1. To analyze and solve the real life problem in Mathematics. 2. To know C program, Matlab, Mathematics which are useful tools of many subject areas like Computer Science, Chemistry, Physics, Engineering, etc. 3. To know the reasoning techniques/ability.

	4. To use technology in different areas of Mathematics. 5. To construct Mathematical models to mimic real life problems, and make their predictions, estimations and regression.	
Course Outcomes	**Course Outcomes of Choice Based Credit System(CBCS)**	
	C1.1 Calculus	After going through this course, the students will be able to 1. Use Mathematica to draw the parametric curves/ Plotting graphs (derivative graphs, Polynomial graphs, Exponential graphs, Logarithmic graphs, Trigonometric graphs, etc.). 2. Trace the curve using Asymptotes. 3. Parameterize of any given curve. 4. Formulate mathematical models. 5. Apply calculus in real life problem.
	C1.2 Algebra	After going through this course, the students will be able to 1. Describes algebraic structures on sets. 2. Identify the algebraic structures present in different branches of Sciences.
	GE1.1 Differential Calculus	After going through this course, the students will be able to 1. Differentiate functions. 2. Find tangent, normal, curvature, asymptotes etc.
	GE1.2 Object Oriented Programming in C++	After going through this course, the students will be able to 1. Write C programs to solve Mathematical problems. 2. Design algorithms to solve problems.
	GE1.3 Finite Element Methods	After going through this course, the students will be able to 1. Describe finite element methods. 2. Solve differential equations using finite element method.
	C2.1 Real Analysis	After going through this course, the students will be able to 1. Identify the properties of number system. 2. Describes various analytical properties of the real number system.
	C2.2 Differential Equations	After going through this course, the students will be able to 1. Use the techniques to solve differential equations. 2. Apply these techniques in various mathematical models used in real life problem.
	GE2.1 Differential Equations	After going through this course, the students will be able to describe various methods for solving

		differential equations.
	GE2.2 Econometrics	After going through this course, the students will be able to design models and solve problems related to economic issues.
	C3.1 Theory of Real Functions	After going through this course, the students will be able to 1. Discuss limit, continuity and differentiability of real valued functions. 2. Expand functions in series and different form of reminders.
	C3.2 Group Theory I	After going through this course, the students will be able to 1. Describe various group structures on sets. 2. Identify the group structures present in different branches of sciences.
	C3.3 PDE and System of ODE	After going through this course, the students will be able to 1. Make mathematical formulates and their solutions of various physical problems. 2. Design mathematical models used in heat, wave. 3. Describes the Laplace equations and their solutions.
	GE3.1 Real Analysis	After going through this course, the students will be able to 1. Analyse the properties of the number line. 2. Describes various analytical properties of the real number system.
	GE3.2 Cryptography and Network Security	After going through this course, the students will be able to 1. Discuss the principles of Cryptography. 2. Explain various ways to attacks in complex networks. 3. Explain the structure and organisation of the complex network.
	GE3.3 Information Security	After going through this course, the students will be able to describe security issues and data integrity.
	SEC1.1	After going through this course, the students will be able to 1. Analyse the truth and falsity of a logical statement. 2. Differentiate between a logical statement and an ordinary statement. 3. Define and describe various properties of sets.
	SEC1.2	After going through this course, the students will be able to 1. Identify the core concepts of computer graphics.

		2. Apply graphics programming techniques to create and design computer graphics scans.
	C4.1 Numerical Methods	After going through this course, the students will be able to 1. Discuss various numerical methods and interpolation formulae 2. Apply numerical techniques for solving differential equations.
	C4.2 Riemann Integration and Series of Functions	After going through this course the students will be able to 1. Riemann integration, improper integrals 2. Differentiation and integration of powerseries.
	C4.3 Ring Theory and Linear Algebra I	After going through this course, the students will be able to 1. Describe various ring structures on sets. 2. Solve the system of linear equations.
	SEC-2.1 Graph Theory	Students should be able to 1. Describe the fundamental properties of Graph Theory 2. Identify different representation of Graph for practical applications.
	SEC-2.2 Operating System: Linux	The Students will be able to 1. Test the linux process model and explain how linux schedule processes and provide inter-process communication 2. Explore how linux implements files systems and manages input output devices.
	GE-4.1 Algebra	After going through this course the students will be able to 1. Describe various algebraic structures on sets 2. Identify the algebraic structures present in different branches of Sciences.
	GE-4.2 Applications of Algebra	After going through this course students will able to 1. Explain various algebraic structure 2. Solve system of linear equations.
	GE-4.3 Combinatorial Methematics	After going through this course students will be able to 1. Use combinatorial approach in solving algebraic problems 2. Explain counting principles.
	C5.1 Multivariate Calculus	After going through this course, the students will be able to 1. Extend the concepts from one variable calculus to function of several variables 2. Demonstrate the ability to think critically and solving application of real world problems involving double/triple integrals.

	C5.2 Group Theory II	After going through this course, the students will be able to 1. Apply results from preliminary concepts to solve contemporary problems. 2. Apply in communications theory, electrical engineering, computer science and cryptography.
	DSE1.1 Analytical Geometry	After going through this course the students will be able to 1. Sketch parabola, ellipse and hyperbola 2. Solve various geometrical problems analytically.
	DSE1.2 Portfolio Optimization	After going through this course the students will be able to define portfolio optimization and apply them to real world problems
	DSE1.3 Financial Mathematics	After going through this course the students will be able to 1. Build quantitative models of financial mathematics/industries 2. Apply models to obtain information of practical value in the financial mathematics
	DSE2.1 Mathematical Modeling	After going through this course the students will be able to solve differential equations and linear programming problems used in mathematical modelling
	DSE2.2 Mechanics	After going through this course the students will be able to 1. Describe Moment of a force and couple, general equation of equilibrium 2. Solve Problems of translation and rotation of rigid bodies
	DSE2.3 Number Theory	After going through this course the students will be able to 1. Obtain solutions of Diophantine equations 2. Define number theoretic functions
	DSE2.4 Bio-Mathematics	After going through this course the students will be able to discuss various models and techniques to study Bio-mathematical real life problems.
	DSE2.5 Industrial Mathematics	After going through this course the students will be able to 1. Use various type of numerical methods to model problems and use simulation to solve problem 2. Apply different methods to solve financial problems.
	C6.1 Metric Spaces and Complex	After going through this course, the students will be able to describe

	Analysis	1. various properties of metrics paces 2. Complex number system, its differentiation and integration.
	C6.2 Ring Theory and Linear Algebra II	After going through this course, students will be able to 1. Apply theorems proof/ solution techniques to solve real world problems 2. Find the matrix associated with a linear transformation w.r.t. given bases and can understand the relationship between operations of linear transformations and corresponding matrices.
	DSE 3.1 Hydro-Mechanics	After going through this course, the students will be able to describe the basic properties of Fluid Mechanics.
	DSE3.2 Linear Programming	After going through this course, the students will be able to 1. Describe various optimization techniques pertaining to linear programming. 2. Apply linear programming to problems arising out of real-life problems
	DSE 3.3 Discrete Mathematics	After going through this course, the students should be able to 1. Explain various discrete structures. 2. Design graph theoretic models of real-life problems.
	DSE3.4 Theory of Equations	After going through this course, the students will be able to discuss various properties of algebraic equations, symmetric properties of roots and determination of roots.
	DSE 3.5 Dynamical Systems	After going through this course, the students will be able to discuss the qualitative properties of difference/differential equations.
	DSE 4.1 Mathematical Methods	After going through this course, the students will be able to 1. Construct mathematical models or real world problems. 2. Solve real world problems through the studied theories.
	DSE 4.2 Boolean Algebra and Automata Theory	After going through this course, the students will be able to 1. Define a lattice 2. Identify various lattice properties and apply them to describe switching circuits.
	DSE4.3 Probability and Statistics	After going through this course, the students will be able to 1. Characterize the statistical techniques. 2. Define various statistical distributions and obtain their related properties

		3. Describe the mathematical theory of probability
	DSE 4.4 Differential Geometry	After going through this course the students will be able to 1. Describe various properties of space curves, surfaces and Geodesics 2. Discuss the properties of algebra and calculus of tensors.

Program Specific Outcomes and Course Outcomes of B. Sc. Physics (Hons.)

The department offers three year Bachelor of Science (B.Sc.) in Physics programme comprising of six semesters. For evaluation of the students Choice Based Credit System(CBCS) is followed as recommended by Dibrugarh University.

Programme Specific outcomes: B.Sc. in Physics

After completion of the programme the students will be able to

PSO-1	Acquire knowledge and understand the concepts of the prescribed courses of physics.
PSO-2	Solve physical problemswith the help ofacquired theoretical and practical knowledge of specific subjects of physics.
PSO-3	Understand the importance of physics in interpreting the natural phenomena and their relevance in human life.
PSO-4	Introduce with the specific subjects of physics and prepare for higher study.
PSO-5	Understand the relevance of physics in different industries and innovative technologies.
PSO-6	Acquire scientific language skills.
PSO-7	Study other allied disciplines where knowledge of physics is a prerequisite.
PSO-8	Create scientific temper and repel harmful and destructive energies from the society.

Course outcomes

I. Honours in Physics	
Semester	Course Outcomes
1st semester Mathematical PhysicsI Mechanics	After completion of 1st semester students will be able to learn • Fundamentals of mechanics, work and energy, collision, rotational dynamics, elasticity, fluid motion, gravitation and central forces of motion, oscillation, non-linear systems and general theory of relativity. • Develop knowledge of special relativity to understand relativistic formulation of modern theories

	• Develop knowledge of mechanics which will help students in their everyday life. • Develop the requisite mathematical skills of a student to understand the fundamental topics in Physics. • Develop the ability of a student to critically analyse a topic.
2nd semester Electricity&Magnetism Waves and Optics	After completion of 2nd semester students will be able to learn • Basic theoretical knowledge as well as experimental skills of the students on electrical networking. • Handle and repair instruments based on electric and magnetic field effects. • Analyse different phenomena due to the interaction of light with light and matter. • Use different optical instruments. • Understand various natural phenomena using different apparatus in the laboratory.
3rd semester Mathematical Physics II Thermal Physics Digital Systems and Applications	After completion of 3rd semester students will be able to • Develop requisite mathematical skills to understand some of the fundamental topics in physics. • Critically analysea topic. • Learn more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics. • Learn important of computational / numerical methods in Physics and enable a student to construct a Physics problem computationally. • Learn how to apply the laws of thermodynamics in real world problems. • Conduct scientific problems and experiments on thermodynamics and allied disciplines. • Demonstrate a working knowledge of the physical principles in Thermal Physics. • Identify and understand digital electronic principles and systems. • Apply the knowledge to analyse and apply digital circuits in solving circuit level problems. • Build real life applications using digital systems.
4th semester Mathematical Physics III Elements of Modern Physics Analog Systems and Applications	After completion of 4th semester students will be able to • Learn more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics. • understand the use and importance of computational/ numerical methods in Physics and to construct a problem computationally. • Pursue advanced studies in Physics. • Understand and appreciate the theory of modern physics. • Develop the ability to apply modern physics in solving simple problems in Quantum Mechanics (QM), structure of atoms, Laser, and Nuclear Physics.

	• Learn the foundation knowledge of analog electronic systems. • Learn the working and applications of PN junction and bipolar junction transistors (BJT). • Learn to analyse circuits containing PN junction and BJT along with the application of BJTas amplifiers and oscillators. • Develop basic knowledge of operational amplifier and its applications.
5th semester Quantum Mechanics and Applications SolidState Physics	After completion of 5th semester students will be able to • Learn how to apply quantum mechanics to solve physical systems in different areas of science. • Know about the physical behaviour of materials. • Learn how the properties of materials can be used for human applications. • Equip with basic concepts of solid state Physics so that the knowledge can be applied for further development of the subject. • Work in both theoretical and experimental aspects of solid state Physics. • Thoroughly learn the concepts associated to the course through the laboratory experiments.
6th semester ElectromagneticTheory Statistical Mechanics	After completion of 6th semester students will be able to • Solve problems relevant to interfaces between media with defined boundary conditions. • Use Maxwell's equations to describe the behaviour of electromagnetic waves in vacuum as well as medium. • Describe states and methods of polarization and analyse the polarization state of a light source. • Equip with the basic knowledge of the Statistical Mechanics and hence will be able to look critically for analysing any physical phenomena. • Pursue further higher study in future. • Solve any challenging physical problem in statistical mechanics.
Discipline Specific Elective (DSE) for students with honours in Physics	
5th semester DSE-I (CBCS) Classical dynamics	After completion of this course a student will be able to • Prepare for the study of modern Physics. • Develop basic theoretical ingredients necessary to study advanced theoretical courses like quantum mechanics. • Learn a number of mathematical techniques applicable to Physics problems in different areas. • Develop knowledge of special relativity which is essential to understand the relativistic formulation of modern

	theories.
5th semester DSE-II (CBCS) Physics of devices and instruments	After completion of this course a student will be able to • Develop knowledge about various devices like UJT, FET etc. and to use these devices for different applications. • Design and analyse filter circuits, power supply FET amplifiers etc. • Develop the basic knowledge of IC fabrications, data communication standards and communication systems.
6th semester DSE-3 (CBCS) Nuclear and particle physics	After completion of this course a student will be able to • Develop knowledge regarding nuclear and elementary particle as well as properties and phenomena related to them. • Successfully apply the same knowledge in solving problems in the field of nuclear and particle Physics.
6th semester DSE-4 (CBCS) Nano materials and application	After completion of this course a student will be able to • Gather sufficient knowledge about the fascinating behaviour of nanomaterials and tuning of such properties for different applications. • Obtain information on experimental methodologies with necessary theoretical background, which may be useful for pursuing further study on the areas of nanoscience and technology.
Ability Enhancement Elective Course (AEEC)	
3rd semester AEEC-1 Electrical circuits and network skills	After completion of this course a student will be able to • Design and troubleshoot certain electrical circuits and domestic appliances along with the understanding of the working of those appliances. • Do electrical wiring and repairing. This knowledge will develop the skill of the students for various electrical repairing and servicing purposes.
4th semester AEEC-2 Applied optics	After completion of this course a student will be able to • Acquire knowledge about various optoelectronic devices and their applications. • Understand the basics of Laser and their uses. • Understand about Fourier transform spectroscopy and will learn to use this technique for various purposes. • Use optical fibres and related information.
Generic Elective (GE)	
1st semester GE-1 Mechanics	After completion of this course a student will be able to • Develop basic knowledge of mechanics as it is helpful to study any other course in science discipline. • Develop knowledge of vector algebra and differential equations which will help students in the study of theoretical courses in science. • Acquire useful knowledge about material science.

	• Explain the abstract idea of 4-dimensional world to students which are not from physics discipline.
2nd semester GE-2 Electricity and magnetism	After completion of this course a student will be able to • Perform quantitative analyses of basic problems in Electrostatics and Magnetodynamics. • Apply Gauss's Law, Ampere's Law, and Biot-Savart Law to solving practical problems in electricity and magnetism. • Apply the fundamental laws of electromagnetism to solve problems of electrostatics, magnetostatics, and electromagnetic induction • Explain and analyse the behaviour of alternating currents in LCR circuits. • Perform and interpret the results of simple experiments and demonstrations of physical principles. • Solve problems relevant to interfaces between media with defined boundary conditions.
3rd semester GE-3 Thermal physics and statistical mechanics	After completion of this course a student will be able to • Apply laws of thermodynamics and statistical mechanics to a range of situations in real world problems. • Conduct scientific problems and experiments on thermodynamics and allied disciplines . • Demonstrate a working knowledge of the physical principles describing the thermal physics. • Explain thermal physics as logical consequences of the postulates of statistical mechanics
4th semester GE-4 Waves and optics	After completion of this course a student will be able to • Justify different phenomena due to light and the interaction of light among them and with matter. • Use different optical instruments. • Produce different natural phenomena using different apparatus in the laboratory.

Program Specific Outcomes and Course Outcomes of B. Sc. Zoology (Hons.)

Program Specific Outcomes

1. Students will acquire complete knowledge of various branches of Zoology as well as of the allied branches of it.
2. Students will be able to understand the rich diversity of the animal kingdom and their ecological as well as evolutionary significances.
3. They will be able to identify common animals found in surroundings with their Zoological nomenclature.
4. Students will acquire basic skills in the observation and study of various aspects of the environment, biological techniques, and experimental skills of scientific investigations.
5. Students will acquire knowledge and skills about various agro based industries like Sericulture, Psiculture, Aquaculture, Pig farming, Poultry, Vermicompost etc,.
6. After completition, students can opt for higher academic studies in the field of Zoology as well as the allied subjects of biological sciences.
7. Various Career oppurtunities are also there after the completion of the B. Sc. Zoology (Hons.) course in both Public as well as Private sector, viz., Teaching Fcaulties, Lab. Technicians, Civil Services including Forest Services, and various competitive examinations.

Course Outcomes of B. Sc. Zoology (Hons.)

Semester / Course	Paper	Course Outcomes
I	Non-chordates I: Protista to Pseudocoelomates	Students will be exposed to various forms of protozoa and worms; their classification and structural anatomy.
	Principles of Ecology	Students will be familiarized with the fundamentals of ecology and impacts of ecological factors on living organisms.
II	Non-chordates II: Coelomates	Students will get to know about various forms of coelomates, their classification and structural anatomy
	Cell Biology	Students will learn about the structure and function of a cell as the fundamental unit of life.
III	Diversity of Chordates	Students will be exposed to various forms of chordates, their classification and structural anatomy.
	Physiology: Controlling and Coordinating Systems	Students will get a foundation for understanding the complexities of the coordination system of animal body.
	Fundamentals of Biochemistry	Students will learn about the various biomolecules of living organisms, their interactions for perpetuation of life.
IV	Comparative Anatomy of Vertebrates	Students will understand the Anatomy of various organs in vertebrate groups.
	Physiology: Life Sustaining Systems	Students will know the physiology of various Life sustaining Systems like Digestion, Respiration, Circulation, & Excretion
	Biochemistry of Metabolic Processes	Students will get to know about the metabolic pathways associated with metabolism of various biomolecules.
V	Molecular Biology	Students will gain an understanding of chemical and molecular processes that occur in and between cells. Also, they will gain insight into the most significant molecular and cell-based methods used today to expand the understanding of biology. Students will gather knowledge about Replication, Trancription, Translation Gene regulations, DNA repair mechanisms, and various Molecular biology

		tools and techniques like PCR, Gel electrophoresis, Boltting techniques, rDNA technologies, etc,.
	Principles of Genetics	Students will learn the basic fundamental genetics including Mendelian & Non-mendelian inheritance patters, linkage, mutation, sex determination maong various organisms. They will also exposed to fundaments of Biostatistics.
VI	Developmental Biology	Students will get insight about various aspects of embryonic developments.
	Evolutionary Biology	Students will learn about Population genetics, Evolution, Speciation, Origin and evolution of Man, & Basics of Bioinformatics.
DSE	Animal behaviour and chronobiology	Students will learn about various patterns of behavior, Social and Sexual behavior, Chronobiology, Biological Rhythm and Biological Clocks of animals.
	Computational biology	Students will learn about the fundamentals of Bioinformatics, Various Biological Databases, Data retrieval systems, Sequence alignment, Structural Bioinformatics and Basic concept of Drug Discovery methods. They will also learn about the fundamental Biostatistics.
	Biology of Insecta	Students will get insight about the diversity of insects including their classification and physiology. They will be able to know about various beneficial as well as harmful/ non-beneficial insects and their interaction in the environment. They will also learn about the role of insects as vectors of various human diseases.
	Fish and fisheries	Students will learn about the Classification, Morphology, and Physiology of fishes as well as various concepts relating to Aquaculture techniques.
	Parasitology	Students will get to know about various parasites and vectors associated with diseases including their life cycle and parasitic adaptations.
GE	Animal Diversity	Students will learn about the various taxonomic groups of the Animal Kingdom.
	Insect Vector and Diseases	Students will get an insight about various insects as vectors of certain diseases and their role in spread and pathogenicity of the disease concerned.

	Human Physiology	Students will learn about the structure and function of various physiological systems of the Human body including Digestion, Respiration, Neural system, Cardiovascular system, Endocrine and Reproductive Physiology.