

## **Programme Outcomes**

### **Jagannath Barooah College**

**PO1.Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

**PO2.Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**PO3. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**PO4. Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

**PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

**PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes:

**Course Outcomes:** The CBCS in J.B. College started in the academic session 2016-17. The courses have been prepared by the Board of Studies, approved by the Academic Council and finally approved by the Governing Body for implementation. Till now, courses have been approved up to 4<sup>th</sup> semester and the 5<sup>th</sup> and 6<sup>th</sup> semesters courses are yet to be approved by the GB for implementation. As such, the outcomes of the courses which have already been approved by the GB have been presented below subject-wise.

**Subjects:** 1. Assamese 2. Economics, 3. English  
4. Geography 5. Hindi 6. History  
7. Philosophy 8. Political Science 9. Sanskrit.

**Course Outcomes**  
**B.A. Assamese (Honours) Programme under CBCS**  
**J. B. College, Jorhat**

CORE COURSE	NEME OF THE COURSE	COURSE OBJECTIVES	COURSE OUTCOMES
ASMC 101	অসমীয়া সাহিত্যৰ ইতিহাস : আৰম্ভণিৰ পৰা শংকৰোত্তৰ যুগলৈকে	অসমীয়া সাহিত্যৰ ইতিহাসৰ যুগবিভাজনৰ লগতে আৰম্ভণিৰে পৰা শংকৰোত্তৰ যুগলৈকে এই সময়ছোৱাৰ সাহিত্যৰ বৈশিষ্ট্যৰ বিষয়ে এই কাকতখনে ধাৰণা দিব।	আৰম্ভণিৰে পৰা মধ্য যুগৰ শেষ স্তৰলৈকে অসমীয়া সাহিত্যৰ ইতিহাস সম্পৰ্কে জ্ঞান লাভ কৰিব।
ASMC 102	অসমীয়া ভাষাৰ ইতিহাস আৰু বিকাশ	অসমীয়া ভাষাৰ জন্মৰ পৰা সাম্প্ৰতিক কাললৈকে ক্ৰমবিকাশ আৰু ভাষাতাত্ত্বিক বৈশিষ্ট্য সম্পৰ্কে ধাৰণা দিবলৈ এই কাকতখন যুগুত কৰা হৈছে।	অসমীয়া ভাষাৰ জন্মৰে পৰা সাম্প্ৰতিক কাললৈকে বিকাশ আৰু প্ৰতিটো স্তৰৰে ভাষাতাত্ত্বিক বিশেষত্ব অনুধাৱন কৰিব।
ASMC 201	আধুনিক অসমীয়া সাহিত্যৰ ইতিহাস : অৰুনোদই যুগৰ পৰা সাম্প্ৰতিক কাললৈকে	আধুনিক অসমীয়া সাহিত্যৰ ইতিহাসৰ যুগবিভাজনৰ লগতে অৰুনোদই যুগৰ পৰা সাম্প্ৰতিক কাল পৰ্যন্ত ৰচিত সাহিত্যৰ ধাৰণা দিবৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।	অৰুনোদই যুগৰ পৰা সাম্প্ৰতিক কাললৈকে অসমীয়া সাহিত্যৰ যুগবিভাজন আৰু প্ৰতিটো যুগৰে সাহিত্যৰ বিষয়ে জানিব পাৰিব।

ASMC 202	ভাষাবিজ্ঞানৰ প্ৰাথমিক পৰিচয়	ভাষা আৰু ভাষাবিজ্ঞানৰ বিবিধ বিষয়বোৰৰ পৰিচয় পাব পৰাকৈ এই কাকতখন প্ৰস্তুত কৰা হৈছে।	ভাষা আৰু ভাষাবিজ্ঞানৰ সংজ্ঞা, ভাষাবিজ্ঞান অধ্যয়নৰ পদ্ধতি আৰু স্তৰৰ লগতে ভাষাৰ বৰ্গীকৰণ, প্ৰাচ্য আৰু পাশ্চাত্যত ভাষা চৰ্চা সম্পৰ্কে জ্ঞান লাভ কৰিব।
ASMC 301	সাহিত্য সমালোচনা তত্ত্ব	সাহিত্য সমালোচনাৰ তত্ত্ব আৰু এইসমূহৰ প্ৰায়োগিক দিশ সম্পৰ্কে ধাৰণা দিয়াৰ উদ্দেশ্যে এই কাকতখন প্ৰস্তুত কৰা হৈছে।	সাহিত্য সমালোচনাৰ তাত্ত্বিক দিশ সম্পৰ্কে জ্ঞান লাভ কৰি সাহিত্য সমালোচনা কৰিব পাৰিব।
ASMC 302	অসমীয়া কবিতাৰ অধ্যয়ন (প্ৰাচীন, বোম্বাষ্টিক আৰু আধুনিক)	প্ৰাক-শংকৰী যুগৰ পৰা সাম্প্ৰতিক সময়লৈকে অসমীয়া কবিতাৰ ইতিহাসৰ সম্যক উপলব্ধি কৰিব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।	প্ৰাক-শংকৰী যুগৰ পৰা সাম্প্ৰতিক সময়লৈকে অসমীয়া কবিতাৰ গতি প্ৰকৃতি আয়ত্ব কৰিব পাৰিব।
ASMC 303	অসমৰ ভাষা আৰু লিপিৰ অধ্যয়ন	অসমত প্ৰচলিত ভাষা আৰু লিপি সম্পৰ্কে এই কাকতখনে বিস্তৃত ধাৰণা দিব	অসমত প্ৰচলিত বিভিন্ন ভাষা পৰিয়ালৰ ভাষাসমূহৰ লগতে অসমীয়া আৰু জনজাতীয় লিপিৰ ইতিহাস সম্পৰ্কে বিস্তৃত ধাৰণা লাভ কৰিব।
ASMC 401	ভাৰতীয় আৰ্যভাষা	ভাৰতীয় আৰ্যভাষাৰ ক্ৰমবিকাশ সম্পৰ্কে এই কাকতখনে বিস্তৃত ধাৰণা দিব	ভাৰতীয় আৰ্যভাষাৰ ক্ৰমবিকাশ সম্পৰ্কে ধাৰণা লাভ কৰাৰ লগতে বিভিন্ন স্তৰৰ সাহিত্যিক নিদৰ্শনসমূহ জানিব পাৰিব।
ASMC 402	অসমীয়া উপন্যাস আৰু চুটিগল্প	অসমীয়া উপন্যাস আৰু চুটিগল্পৰ সম্যক ধাৰণাৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।	অসমীয়া উপন্যাস আৰু চুটিগল্প সম্পৰ্কে জ্ঞান লাভ কৰিব।
ASMC 403	অসমীয়া নাটক	অসমীয়া নাটকৰ সম্যক ধাৰণাৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।	অসমীয়া নাটকৰ বিভিন্ন ধাৰাসমূহৰ সম্পৰ্কে জ্ঞান লাভ কৰিব পাৰিব।

ASMG 101	অসমৰ ভাষা আৰু লিপি	অসমত প্ৰচলিত ভাষা আৰু উপভাষাসমূহৰ পৰিচয়, ভাষাতাত্ত্বিক বৈশিষ্ট্য, লিপি, ভাষাৰ আদান-প্ৰদান আদি বিষয়বোৰৰ সমূচিত পৰিচয় পাব পৰাকৈ এই কাকতখন প্ৰস্তুত কৰা হৈছে।	অসমত প্ৰচলিত ভাষা আৰু উপভাষাসমূহৰ ভাষাতাত্ত্বিক বিশেষত্ব, অসমীয়া আৰু জনজাতীয় ভাষাৰ লিপি আৰু অসমীয়া আৰু আৰ্যভিন্ন ভাষাৰ আদান প্ৰদানৰ পৰিচয় পাব।
ASMG 201	সাহিত্যতত্ত্ব আৰু সৃষ্টিশীল সাহিত্য	ছাত্ৰ-ছাত্ৰীসকলক সাহিত্য সমালোচনা আৰু সৃষ্টিশীল সাহিত্য সম্পৰ্কে ধাৰণা দিয়াৰ উদ্দেশ্যে এই কাকতখন প্ৰস্তুত কৰা হৈছে।	সাহিত্য, সাহিত্য সমালোচনা আৰু সৃষ্টিশীল সাহিত্য সম্পৰ্কে ধাৰণা লাভ কৰাৰ লগতে কাহিনীধৰ্মী আৰু ৰচনাধৰ্মী সাহিত্যৰ শৈলী আৰু কৌশল সম্পৰ্কে অৱগত হ'ব পাৰিব।
ASMG 301	অসমীয়া গদ্য	অসমীয়া গদ্যৰ উদ্ভৱ আৰু ক্ৰমবিকাশ সম্পৰ্কে এই কাকতখনে বিস্তৃত ধাৰণা দিব	অসমীয়া গদ্যৰ ক্ৰমবিকাশৰ লগতে বিভিন্ন স্তৰৰ বিশেষত্ব সম্পৰ্কে জ্ঞান লাভ কৰিব।
ASMG 401	অসমীয়া কবিতাৰ অধ্যয়ন (প্ৰাচীন, ৰোমান্টিক আৰু আধুনিক)	প্ৰাক্ শংকৰী যুগৰ পৰা সাম্প্ৰতিক সময়লৈকে অসমীয়া কবিতাৰ ইতিহাসৰ সম্যক উপলব্ধি কৰিব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।	আৰম্ভণিৰ পৰা সাম্প্ৰতিক কাল পৰ্যন্ত অসমীয়া কবিতা সম্পৰ্কে জ্ঞান কৰিব।

**Course Outcomes**  
**B.A. Economics(Honours) Programme under CBCS**  
**J. B. College, Jorhat**

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>ECOC101</b>	<b>INTRODUCTORY MICROECONOMICS</b>	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	Expose the students to the basic principles of microeconomic theory, how microeconomic concept can be applied to analyze real life situation.
<b>ECOC102</b>	<b>MATHEMATICAL METHODS FOR ECONOMICS–I</b>	This is the first of a compulsory two-course sequence. To transmit the body of basic mathematics that enables 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.	To transmit the body of basic mathematics that enables 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.
<b>ECOC201</b>	<b>INTRODUCTORY MACROECONOMIC S–I</b>	This course introduces students to the basic concepts in Macroeconomics. Students are also introduced to the definition, measurement of the macroeconomic variables like GDP, consumption, savings, investment and balance of payments.	This course aims to introduce the students to the basic concept of Macro Economics, discusses the basic concepts associated with the determination and measurement of aggregate.

<b>ECOC202</b>	MATHEMATICAL METHODS FOR ECONOMICS – II	This course is the second part of a compulsory two-course sequence. The objective of this course is to transmit the body of basic mathematics that enables the study of economic theory specifically the courses on micro and macroeconomic theory, statistics and econometrics.	To transmit the body of basic mathematics that enables the study of economic theory specifically the courses on micro and macroeconomic theory, statistics and econometrics.
<b>ECOC301</b>	INTERMEDIATE MICROECONOMICS - I	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.	To Provide a sound training in microeconomic theory to formally analyze the behavior of individual agents. Mathematical tools are used to facilitate understanding of the basic concepts
<b>ECOC302</b>	INTERMEDIATE MACROECONOMIC S - I	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 determination in a closed economy in the short run as well as medium run, and the role of policy in this context.	To formal modeling of a macro-economy in terms of analytical tools.
<b>ECOC303</b>	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	Fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions with a discussion on sampling techniques used to collect survey data.

		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	
<b>ECOC401</b>	INTERMEDIATE MICROECONOMICS - II	The emphasis of this course is to give a 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.	Conceptual clarity to the student coupled with the use of mathematical tools and reasoning.
<b>ECOC402</b>	INTERMEDIATE MACROECONOMIC S - II	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	In this course, the students are introduced to the long run dynamic issues like growth and technical progress.
<b>ECOC403</b>	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.	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.
<b>ECOG101</b>	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	Expose the students to the basic principles of microeconomic theory, how microeconomic concept can be applied to analyze real life situation.

		analyze real-life situations.	
ECOG201	INTRODUCTORY MACROECONOMIC S	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	This course aims to introduce the students to the basic concept of Macro Economics, discusses the basic concepts associated with the determination and measurement of aggregate.
ECOG301	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.	This course reviews major trends in economic indicators and policy in India in the post-Independence period, with special emphasis on paradigm shifts and turning points.
ECOG401	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 decentralization in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.	The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.
SEC301	THEORY OF SAMPLE SURVEY	This course aims at providing a basic theoretical base to the students who are intending to conduct field surveys on economic matters. This will enhance the skills and applied knowledge in this regard	Enhance the skills and applied knowledge in the field of research.

SEC401	DATA ENTRY AND ANALYSIS	This course intends to enhance the skills required for applied economics. It includes the few conceptual statistical issues concerning conduct of field surveys, data analysis and report preparation. It also aims at providing preliminary knowledge on the application of sophisticated statistical software packages in the data synthesis processes.	providing preliminary knowledge on the application of sophisticated statistical software packages in the data synthesis processes
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Course Outcomes

**B.A. English ( Honours) Programme under CBCS**

J B College, Jorhat

CORE Course	Name of the Course	Course Objectives	Course Outcomes
ENGC101	Indian Classical Literature	The objective of this paper is to acquaint the students of English Literature(Core)with Indian Classical literature starting from writers Kalidasa to Ilango Adigal keeping in mind the traditions of the Indian Epic and Drama. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the knowledge and understanding of Indian Classical Literature

ENGC102	European Classical Literature	The objective of this paper is to acquaint the students of English Literature( Core)with European Classical Literature starting from Homer to Ovid keeping in mind the traditions of the Western Classical Epic as well as the concepts of Tragedy and Comedy in Classical Drama. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the knowledge and understanding of European Classical Literature
ENGC201	Indian Writing in English	The aim of this paper is to acquaint the students of English Literature ( Core) with seminal Indian Writing English texts in order to help them understand the complexities of Indian life and culture as well as the relevance of Indian Writing in the contemporary world. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the knowledge and understanding of Indian English Literature
ENGC202	British Poetry and Drama: 14th to 17th Centuries	The aim of this paper is to acquaint the students of English Literature ( Core)with the major poets and dramatists of British Literature from the 14 <sup>th</sup> century to the 17 <sup>th</sup> century keeping in mind the cultural contexts of their production and reception. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the knowledge and understanding of British Poetry and Drama from the 14 <sup>th</sup> to the17 <sup>th</sup> century.
ENGC301	American Literature	The objective of this paper is to acquaint the students of English Core with seminal American texts in order to help them understand the complexities of American culture and society. Each unit will require the students to keep abreast of the movements and issues that define the critical temper of the texts under scrutiny.	Enhance the understanding and knowledge of American Literature

ENGC302	Popular Literature	The objective of this paper is to acquaint the students of English Core with writers of popular literature like Lewis Carroll, Agatha Christie, Shyam Selvadurai, Durgabhai Vyam and Subhash Vyam. Each unit will help in understanding the different types such as Children's Literature, Detective Fiction, the Graphic Novel that comprise popular literature.	Enhance the understanding and knowledge of popular literature
ENGC303	British Poetry and Drama: 17 <sup>th</sup> and 18 <sup>th</sup> Centuries	The aim of this paper is to acquaint the students of English Literature ( Core)with the major poets, dramatists and novelists of British Literature of the 17 <sup>th</sup> and 18 <sup>th</sup> Centuries from John Milton to Alexander Pope keeping in mind the cultural contexts of their production and reception. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the understanding and knowledge of British Poetry and Drama of the 17 <sup>th</sup> and 18 <sup>th</sup> centuries.
ENGC401	British Literature: 18 <sup>th</sup> Century	The aim of this paper is to acquaint the students of English Literature ( Core) with the major poets, dramatists and novelists of British Literature from William Congreve to Lawrence Sterne keeping in mind the cultural contexts of their production and reception. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the understanding and knowledge of 18 <sup>th</sup> Century British Literature

ENGC402	British Romantic Literature	The aim of this paper is to acquaint the students of English Literature ( Core)with the major writers of the Romantic period from William Blake to Mary Shelley keeping in mind the cultural contexts of their production and reception. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the understanding and knowledge of British Romantic Literature
ENGC403	British Literature: 19 <sup>th</sup> Century	The aim of this paper is to acquaint the students of English Literature (Core) with the major writers of the 19 <sup>th</sup> Century from Jane Austen to Alfred Tennyson keeping in mind the cultural contexts of their production and reception. Students will be required to study the issues that define the ethos of the texts under scrutiny.	Enhance the understanding and knowledge of 19 <sup>th</sup> Century British Literature
AEC 101	English Communication	The objective of this paper is to acquaint students with the theory, fundamentals and tools of English communication. Students will be familiarised with important reading skills as well as writing skills .	To equip students in acquiring communication skills in English to be used in personal, social and professional interaction.
GE 101	Academic Writing and Composition	The objective of this paper is to impart some of the basic skills in writing for academic purpose.	To enhance academic writing skills such as summarizing, analysis, argument structures, citing, editing, reviewing.
GE 201	Media and communication skills	The aim of this paper is to acquaint students with some of the basic ideas of media and communication.	To enhance skills of scriptwriting for TV and radio, creating advertisements/ story boards, editing for print and online media. Will be effective for learners interested in pursuing a career in mass communication
GE 301	Contemporary India: Women and	The objective of this paper is to acquaint students with women empowerment issues in contemporary India.	To enhance understanding of the complexities of gender issues and expose the patriarchal set ups in the Indian society

	Empowerment		
GE 401	Language and Linguistics	The aim of this paper is to introduce some of the basic concepts of language and linguistics.	To enhance understanding of English syntax and semantics, phonology and morphology, to stimulate better understanding of English language and Grammar

Course Outcomes  
**B.A. Geography (Honours) Programme under CBCS**  
 J B College, Jorhat

CORE Course	Name of the Course	Course Objectives	Course Outcomes
GGRC101	Geomorphology	To enhance their knowledge on earth's interior, landforms & geomorphic processes	To enhance basic concepts on geographic knowledge
GGRC102	Cartographic Techniques (Practical)	To introduce the basic techniques of mapmaking	To draw maps using different techniques
GGRC201	Human Geography	To enhance concepts on space, population & society	Knowledge on population & their activities
GGRC202	Thematic Cartography (Practical)	To introduce theme based map making techniques	Knowledge on depiction of themes
GGRC301	Climatology	To give an overview of the structure and composition of the atmosphere and climatic variations.	Introduce students to spatial variation of climate
GGRC302	Statistical Methods in Geography (Pr)	To introduce the methods of data collection and analysis	To inculcate practical field work experiences
GGRC303	Geography of India	To give an overview of India in detail	Background knowledge of India
GGRC401	Economic Geography	To analyse economic activity & their bases	Knowledge on economy & their role
GGRC402	Field Work and Research	How to conduct field work, data collection and the steps involved in research.	Introduction & knowledge on conducting Research

	Methodology (Practical)		
GGRC403	Environmental Geography	Basic concepts of environment, the programmes & policies	Environment awareness & duties of every citizen

SEC301	Remote Sensing (Practical)	To introduce about different techniques of aerial photography remote sensing.	Students have skill on use of RS data products
SEC401	Geographical Information System (Practical)	Interpretation & Application of RS & GIS	Skill on using RS & application of GIS
GGRG101	Disaster Management	Types of disaster and how to cope with disaster	Knowledge on disaster management with reference to NE India
GGRG102	Disaster Management(Practical)	Practical knowledge on the subject	Preparation of map showing the disaster prone areas
GGRG-201	Regional Development	Emphasis is given on regional resources and planning	Knowledge on how to make regional development
GGRG202	Regional Development (Practical)	Practical knowledge on the subject	Maps showing regional imbalances, etc.
GGRG301	Climate change, Vulnerability and Adaptation	Nature of climate change/consequences	Knowledge on change of climatic characteristics
GGRG302	Climatic Data Study (Practical)	Practical	Representation on maps, helps in planning
GGRG401	Sustainable Development	Conceptual dimensions	Knowledge on development
GGRG402	Background of Sustainable Development (Practical)	Practical	Representation on maps, helps in planning

Course Outcomes  
**B.A. Hindi (Honours) Programme under CBCS**  
**J. B. College, Jorhat**

हिन्दी से सम्बन्धित प्रतिष्ठा पाठ्यक्रमों में हमारे देश के विश्वविद्यालयों में एकरूपता देखने को नहीं मिलती है। जिसके कारण कुछेक क्षेत्रों के विद्यार्थी प्रभावित नजर आते हैं। इसे ध्यान में रखते हुए विश्वविद्यालय अनुदान आयोग ने एक पाठ्यक्रम बनाया है जिसका नाम है चॉइस बेस्ड क्रेडिट सिस्टम। जो आयोग के क्रेडिट सिस्टम फार्मूले पर आधारित है। हमारा महाविद्यालय एक स्वायत्तसाशी महाविद्यालय है। एकेडेमिक काउंसिल ने इस बदलाव को ध्यान में रखते हुए चॉइस बेस्ड क्रेडिट सिस्टम पर आधारित आयोग के पाठ्यक्रम को सत्र 2016-17 से लागू करने का फैसला किया है। हिन्दी विषय के लिए गठित अध्ययन बोर्ड की बैठक में कुछ बदलावों के साथ हिन्दी (प्रतिष्ठा) पाठ्यक्रम को ग्रहण किया गया है जिनमें कोर कोर्स के कुल 14 प्रश्न-पत्र और विषय पर आधारित ऐच्छिक पाठ्यक्रम के 4 प्रश्न-पत्र हैं जिनसे हिन्दी साहित्य और भाषा के विभिन्न पहलुओं की जानकारी मिलती है। जो छात्रों को प्रभावी ढंग से वृत्तिमुखी होने में सहायता करती है।

1. **कोर कोर्स- 1** : हिन्दी साहित्य के क्रमिक विकास द्वारा हमें हमारी मध्यकालीन सांस्कृतिक विरासत की दिशा, दशा और साहित्यिक गतिविधियों का पता चलता है।
2. **कोर कोर्स- 2** : आधुनिक काल में पाश्चात्य प्रभाव के फलस्वरूप कई सामाजिक और ढाँचागत परिवर्तन देखने को मिले जिसने साहित्य की दिशा बदल दी। हिन्दी साहित्य में कई नई विधाओं का जन्म हुआ। जिसने एक नये मूल्य-बोध को जन्म दिया जिसकी उपादेयता आज भी है। छात्र उससे प्रभावित हुए बगैर नहीं रहते।
3. **कोर कोर्स- 3** : इससे तत्कालीन साहित्य रचना-कौशल और उसकी महत्ता का पता चलता है जो हमारी भाषा को परिमार्जित करता है। साथ ही, हमारे शब्द-भंडार को समृद्ध करता है।
4. **कोर कोर्स- 4** : आधुनिक हिन्दी कविता द्वारा आधुनिक काव्य की विभिन्न धाराओं और उनकी विशेषताओं का पता चलता है जो एक नई चिन्तन-प्रक्रिया की महत्ता को प्रतिपादित करता है। जो हमारे बौद्धिक विकास में सहायक सिद्ध होती है।

5. **कोर कोर्स- 5 :** हिन्दी साहित्य में स्वाधीनोत्तर काव्य की महत्ता का पता चलता है। स्वाधीनता की अपेक्षाओं में हास के दौर की कविता किस तरह केवल बुद्धिजीवी वर्ग को ही नहीं आम आदमी को भी झकझोर कर रख दिया है, का परिचय मिलता है।
6. **कोर कोर्स- 6 :** हमारी साहित्यिक अस्मिता और चिन्तन किस प्रकार विज्ञानसम्मत और ऊर्जावान था जिसकी छाप हमारी काव्य परम्परा के सैद्धान्तिक आलोचना और हिन्दी आलोचना में देखने को मिलती है जो भाषायी संरचना को समझने और संवरने में सहायता प्रदान करती है।
7. **कोर कोर्स- 7 :** हिन्दी साहित्य पर तकनीकी रूप से पाश्चात्य काव्यशास्त्र का प्रभाव बड़े पैमाने पर देखा जाता है जिसके तकनीकी पक्ष को जाने बगैर समकालीन साहित्य का मूल्यांकन अधूरा-सा लगता है। इसे जानना जरूरी है।
8. **कोर कोर्स- 8 :** किसी भी साहित्य की संरचना में भाषा की बारीकियों की भूमिका महत्वपूर्ण होती है। जो जितना ही जिस भाषा की संरचना को अच्छी तरह जानता है वह उतना ही अच्छे तरीके से साहित्य के मर्म को समझ पाता है। विशेष कर अनुवाद की गुणवत्ता को बनाये रखने में भाषायी संरचना को जानना बहुत आवश्यक है। आज के इस दौर में अनुवाद की महत्ता सर्वविदित है। अतः ऐसी जानकारियाँ प्रतिभा को बढ़ाता है।
9. **कोर कोर्स- 9 :** गद्य विधाओं में उपन्यास साहित्य की एक विशेष भूमिका रही है। उपन्यास की रचना हमें एक नई ऊर्जा प्रदान करती है। यह मनोरंजन का साधन ही नहीं, वरन् हमें पढ़ने-लिखने, सोचने-समझने और लम्बे समय तक काम करने और लगे रहने की सीख देती है।
10. **कोर कोर्स- 10 :** हिन्दी कथा साहित्य की विधाओं-उपन्यास और कहानी का आकलन केवल आकार की दृष्टि से करने की जगह हमें उसका आकलन एक विशेष दृष्टि से करने की आवश्यकता होती है। कहानी कम समय, कम घटना और कम पात्रों के माध्यम से बहुत कुछ कह जाता है जो हमारी सोच को एक नया आकार प्रदान करता है।
11. **कोर कोर्स- 11 :** हिन्दी नाटकों की अपनी एक अलग पहचान है। यह हमारे तर्क-वितर्क की क्षमता और सटीक तरीके विषय का प्रतिपादन और प्रत्युत्तर की तैयारी को बढ़ाने की क्षमता प्रदान करता है।
12. **कोर कोर्स- 12 :** निबन्ध हमारी वैचारिक क्षमता के विश्लेषण का रास्ता दिखलाता है। किसी विषय का कब, कहाँ और कैसे विश्लेषण किया जाये, को बढ़ाने में सहायक होता है।

13. **कोर कोर्स- 13 :** पत्रकारिता का परिचय और प्रवृत्तियों से हमें समसामयिक सोच, विश्लेषण और मूल्य-बोध का परिचय मिलता है जो हमें एक अच्छे पत्रकार और पत्रकारिता के मूल्य को ही नहीं वरन् एक अच्छे पत्रकार को किन-किन चुनौतियों का सामना करना पड़ता है और किस मोड़ पर अधिक सावधानी बरतने की आवश्यकता होती है, के बारे में जानकारी मिलती है।
14. **कोर कोर्स- 14 :** हिन्दी की प्रयोजनीयता विभिन्न क्षेत्रों में सर्वविदित है। उसे ध्यान में रखकर इस पाठ्यक्रम को बनाया गया है। जो हिन्दी को रोजगार की भाषा बनाने में सहायता करती है।
15. **विषय सम्बन्धित ऐच्छिक कोर्स -1 :** हम इस बहुभाषी देश में एक भाषा को जानकर विशेष कर अहिन्दीभाषी क्षेत्रों में अपनी पैठ बनाने में पूरी तरह सफल नहीं हो सकते। इस समस्या के समाधान हेतु क्षेत्रीय भाषाओं के साहित्य का आभास भी जरूरी है। इसी को ध्यान में रखकर यह कोर्स तैयार किया गया है।
16. **विषय सम्बन्धित ऐच्छिक कोर्स -2 :** हिन्दी भाषा की प्रयोजनीयता को ध्यान में रखकर इस पाठ्यक्रम को बनाया गया है।
17. **विषय सम्बन्धित ऐच्छिक कोर्स -3 :** मध्यकाल के साहित्य में गोस्वामी तुलसीदास का स्थान सर्वोपरि है जिन्होंने पूरे जनमानस को एकता के सूत्र में बाँध दिया। उनके अवदान से हमें जो सीख मिलती, वह सभी को प्रभावित करती है। जिसे जानना आज की पीढ़ी को जरूरी है।
18. **विषय सम्बन्धित ऐच्छिक कोर्स - 4 :** हिन्दी कथा साहित्य के क्षेत्र में प्रेमचन्द एक युग पुरुष रहे हैं। उनको जाने बगैर कथा साहित्य अधूरा-सा लगता है। जिसे समझना और गुनना सबके लिए जरूरी है। सहज भाषा में भी बड़ी-बड़ी बातें कही जा सकती हैं। इस कला के दर्शन उनके साहित्य में देखने को मिलता है।
19. **ऐच्छिक कोर्स :** इसके अन्तर्गत कुल चार प्रश्न-पत्र हैं। इसमें यह ध्यान रखा गया है कि अगर कोई विद्यार्थी किन्हीं दो या दो से अधिक भाषाओं में पारंगत होना चाहता है तो वह कोर कोर्स के रूप में न पढ़कर भी दूसरी भाषा में दक्षता हासिल कर सकता है। विशेषकर, अहिन्दीभाषी क्षेत्रों के विद्यार्थियों के लिए यह बहुत ही जरूरी है। इसी को ध्यान में रखकर इस पाठ्यक्रम को बनाया गया है ताकि वे हिन्दी की सामान्य दक्षता हासिल कर सकें। इसी कारण पहले प्रश्न-पत्र में हिन्दी साहित्य के इतिहास का सामान्य परिचय दिया गया है जबकि दूसरे प्रश्न-पत्र में हिन्दी काव्य के प्रमुख

कवियों की कविताओं का परिचय दिया गया है। तीसरे प्रश्न-पत्र में गद्य विधा की रचनाओं को रखा गया है जबकि चौथे प्रश्न-पत्र में प्रयोजनमूलक हिन्दी को रखा गया है।

**Course Outcomes**  
**B.A. History (Honours) Programme under CBCS**  
**J. B. College, Jorhat**

<b>Core/ Generic Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
HISC101	History of India-I	The paper intends to acquaint the students with the particular understanding of the ancient Indian history as well as use of different sources and tools of historical reconstruction. It also tries to highlight the different stages of human evolution and eventual establishment of the Harrapan Civilization.	Enhance the knowledge and understanding of India's ancient past.

HISC102	Social Formations and Cultural Patterns of the Ancient World	The objective of the paper is to highlight the major factors that led to the social formations and cultural patterns of the ancient world. The paper also strives to underline the development of Bronze Age Civilizations throughout the world as well as development of slave and ploid societies in ancient Greece.	Enhance the knowledge and understanding the process of social formations in ancient world.
HISG101	Early and Medieval Assam Upto 1826	The objective of this paper is to give a critical outline of the political history of Assam from the earliest times to its occupation by the East India Company in the first quarter of the 19 <sup>th</sup> Century. It aims at acquainting the students with the major and significant stages of developments in the course of history of the state of Assam since early times.	To augment the knowledge and understanding of the students about pre-colonial Assam.
HISC201	History of India-II	This paper intends to acquaint the students with the different stages of development of Agrarian and Rural economy of India from 300 BC to 300 AD. It also highlights ancient Indian social stratification as well as formation of different state structures.	Enhance the knowledge and understanding of early India's agrarian and rural economy and society.
HISC202	Social Formations and Cultural Patterns of the Medieval World	The objective of the paper is to highlight the major factors that led to the social formations and cultural patterns of the medieval world. The paper also underlines the history of religion and culture of medieval Europe and Central Asia.	Enhance the knowledge and understanding the process of social formations in medieval world.
HISG201	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	To augment the knowledge and understanding of history of ecology and environment of India.
HISC301	History of India-III	The paper intends to acquaint the students with the particular understanding of the early medieval Indian history as well as use of different sources and tools of	To augment the knowledge and understanding of the students about early medieval India.

		historical reconstruction. It also tries to highlight the aspects of trade, economy and polity.	
HISC302	Rise of Modern West-I	The objective of this paper is to acquaint the students about the major trends and developments that took place in Europe which ushered a new modern age.	Enhance the knowledge and understanding of the process of rise of modern Europe.
HISC303	History of India-IV	The objective of this paper is to acquaint the students with political development in India between 1206 to 1550. it requires the students to understand the states in medieval time, administrative system, society, economy and culture.	To augment the knowledge and understanding of the students about medieval India.
HISG301	History of India from Earliest times to 1526 A.D.	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 Deccan and in south India in the early period.	Enhance the knowledge and understanding of early India's socio-political structures.
HISC401	Rise of Modern West-II	The objective of this paper is to acquaint the students with the major economic and political developments in Europe in the early modern period.	Enhance the knowledge and understanding of the process of rise of modern Europe
HISC402	History of India-V	The objective of this paper is to acquaint the students with political development in India between 1550-1605. It requires the students to understand the states in medieval time, administrative system, society, economy and culture.	To augment the knowledge and understanding of the students about medieval India.
HISC403	History of India-VI	The objective of this paper is to acquaint the students with sosio-economic development in India between 1750-1857. It requires the students to understand the administrative system, society, economy and culture.	To augment the knowledge and understanding of the students about colonial India.
HISG401	History of India: 1526-1947	The objective of this paper is to acquaint the students with political development in India between 1526-1947. It requires the students to understand administrative system, society, economy and culture as well as freedom struggle.	To augment the knowledge and understanding of the students about colonial India.

Course Outcomes  
**B.A. Philosophy (Honours) Programme under CBCS**  
J. B. College, Jorhat

CORE COURSE	NAME OF THE COURSE	COURSE OBJECTIVES	COURSE OUTCOMES
PHLC101	Indian Philosophy	The objective of this course is to acquaint the students of philosophy with the basic issues and problems of philosophy as discussed in Indian Tradition.	Enhance the knowledge of Ancient and Medieval era texts which includes extensive discussions on ontology, means of knowledge and value system
PHLC102	Logic	To acquaint the students with basic logical concepts of both Deductive and Inductive Logic, and to develop skills for validating/invalidating syllogisms through rules and Venn Diagram	Increased knowledge of the students on logical concepts and ability to apply Venn Diagram Technique to test validity of syllogisms
PHLC201	Greek Philosophy	The objective of this course is to acquaint the students of philosophy with some topics on ethics, epistemology and metaphysics along with a general account of the history of thought from pre-Socratic period to Aristotle.	Pave the way for the western intellectual tradition, including modern science.
PHLC202	Ethics	The objective of this course is to acquaint the students of philosophy with the moral aspects of human existence, nature of moral philosophy, various theories and concept of ethics- traditional and contemporary from western and Indian perspective.	Find what is of basic value and importance of life
PHLC301	Western Philosophy	The objective of this course is to deal with the epoch making issues discussed by the philosophers between Descartes and Kant.	Know the most radical and influential system of philosophy from Descartes to Kant
PHLC302	Social and Political	The objective of this course is to acquaint the students of philosophy with different philosophical aspects of	Understand the basic concept like: Secularism, Nationalism, Humanism, Equality, liberty, sovereignty and also

	Philosophy	society and politics	examines the relation between the individual and society.
PHLC303	Applied Ethics	To introduce the students with Moral Philosophy as well as issues of Applied Ethics like Human Rights, Suicide, Female Foeticide, environmental issues, Surrogacy, Doctor-patient relation, Euthanasia and issues related to media.	Awareness of present issues related to human life , society and environment and their ethical implications
PHLC401	Text of Indian Philosophy	To acquaint the students with NyayaBindu, an original text of Buddhist logic and its translated version with particular reference to Pratyaksa and Svarthanumana, two basic concepts of Indian logic.	Enhance the knowledge of Buddhist logic to develop the ability to make comparisons of it with the logical conclusions of other Indian philosophical schools as well as western logic.
PHLC402	Text of Western Philosophy	To introduce the students with four original texts of western philosophy namely Existentialism and Humanism of Sartre, Letter on Humanism of Heidegger, Science and Ethics of Russell and The Last Word of T.Nagel as well as their translated and electronic versions.	Enhance the knowledge of some important texts and concepts of western philosophy and their impacts on life and society.
PHLC403	Truth Functional Logic: Propositional and Predicate	To acquaint the students with the basic concepts of propositional and predicate logic and to enhance their skills of logical deduction applying rules	Enhanced skills for applying decision procedures as well as construction of formal proofs of validity
PHLG	INTRODUCTI ON TO	The objective of this course is to acquaint the students of philosophy with the moral aspects of	Understands the basic moral concept

101	MORAL PHILOSOPHY	human existence, nature of moral philosophy, various theories of ethics- traditional and contemporary from western perspective.	of right-wrong,good-evil,sin,crime etc. and also learn different ism regarding destiny and value of life.
PHLG 201	FORMAL LOGIC	To acquaint the students with basic logical concepts of both Deductive and Inductive Logic, and to develop skills for validating/invalidating syllogisms through logical rules	Increased knowledge of the students on logical concepts and ability to apply Technique to test validity and find out the inconsistencies.
PHLG 301	CONTEMPORARY INDIAN PHILOSOPHY	The objective of this paper is to acquaint the students of philosophy with the contemporary philosophy of Indian thought. It deals with the basic features of contemporary Indian philosophy discussing the philosophy of Vivekananda, Sri Aurobindo, R. Tagore, S. Radhakrishnan, M.K. Gandhi and Mahmad Iqbal.	Critical and reflective study –wants to understand man in relation to the whole universe, nature and god.
PHLG 401	WESTERN EPISTEMOLOGY AND METAPHYSICS	The objective of this course is to acquaint the students of philosophy with metaphysical and epistemological problem like sources of knowledge, theories of truth and reality, god and His existence. God and world, evolution and its different theories.	Search for a comprehensive view of a nature, an attempt at universal explanation of the nature of things.  Tools and methods of thinking and knowing.
SEC 30I	Critical thinking and decision making	The objective of this course is to identify and analyse the problems, evaluating the arguments validity, reflecting upon issues with sensitivity and fairness from multiple perspectives.	Identifying inconsistencies, understanding dilemma and looking for appropriate solution within limitation

SEC40I	Critical Appreciation of Text	The objective of this course is to acquaint the students of philosophy with the form of literary criticism in which a book is analyzed based on content, style and merit.	As a reviewer combine an accurate, analytical reading with a strong, personal touch, expresses reaction and arguments from a unique perspective.
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Course Outcomes  
**B.A. Political Science (Honours) Programme under CBCS**  
J. B. College, Jorhat

<b>PAPER</b>	<b>TITLE</b>	<b>COURSE OBJECTIVE</b>	<b>COURSE OUTCOME</b>
<b>PSCC 101</b>	<b>Understanding Political Theory</b>	This course is divided into five units. The units introduce the students to the idea of political theory, its history and approaches, and an assessment of its critical and contemporary trends. Further the last two units tend to reconcile political theory and practice through reflections on the ideas and practices related to State, Citizenship and Democracy.	A student is loaded with the acquired knowledge regarding the development including recent trends in the field of theories of Political Science. He becomes capable of analyzing problems with theoretical tools and correlating various ideas with the real life situation.

<p><b>PSCC 102</b></p>	<p><b>Constitutional Government and Democracy in India</b></p>	<p>This course acquaints students with the constitutional design of states structures and institutions, and their actual working over time. The Indian Constitution accommodates conflicting impulses (of liberty and justice, territorial decentralization and a strong union, for instance) within itself. The course traces the embodiment of some of these conflicts in constitutional provisions, and shows how these have played out in political practice.</p> <p>It further encourages a study of state institutions in their mutual interaction, and in interaction with the larger extra-constitutional environment.</p>	<p>The knowledge of constitutional government and working of Indian democracy would immensely benefit the learners. The students become endowed with the nitty-gritty of the Constitution of India. They are having significant knowledge of the working of the formal and extra constitutional political Institutions in their mutual interaction.</p>
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<p><b>PSCC 201</b></p>	<p><b>Political Theory: Concepts and Debates</b></p>	<p>This course is divided into five units. The course helps the student to familiarize with the basic normative concepts of political theory. Each concept is related to a crucial political issue that requires analysis with the aid of our conceptual understanding. This exercise is designed to encourage critical and reflective analysis and interpretation of social practices through the relevant conceptual toolkit. Further this course introduces the students to the important debates in the subject. These debates prompt us to consider that there is no settled way of understanding concepts and that there is no settled way of understanding concepts and that in the light of insights and challenges, besides newer ways of perceiving and interpreting the world around us, we inaugurate new modes of political debates.</p>	<p>The student becomes concerned with crucial political issues after being endowed with analytical ability to critically view the dominating Political Theory, concepts, issues and debates and relevant discourses.</p>
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<b>PSCC 202</b>	<b>Political Process in India</b>	Actual politics in India diverges quite significantly from constitutional legal rules. An understanding of the political process thus calls for a different mode of analysis- that offered by political sociology. This course maps the working of 'modern' institutions, premised on the existence of an individuated society, in a context marked by communitarian solidarities, and their mutual transformation thereby. It also familiarizes students with the working of the Indian state, paying attention to the contradictory dynamics of modern state power.	Students become aware of politics, real politique of India with the greater understanding of working of Indian states and its institutions in the given politico-social context. They develop a critical view on Political process in India.
<b>PSCC 301</b>	<b>Introduction to Comparative and Politics</b>	This is a foundational course in comparative politics. The purpose is to familiarize students with the basic concepts and approaches to the study of comparative politics. More specifically the course will focus on examining politics in a historical framework while engaging with various themes of comparative analysis in developed and developing countries.	A student becomes able to understand and analyse the basic ideas of comparative method being applied in the story of politics in the historical framework of socio-economic and political developments of the given countries. It develops the horizon of analyzing things in comparative perspective.
<b>PSCC 302</b>	<b>Perspectives on Public Administration</b>	The course provides an introduction to the discipline of public administration. This paper encompasses public administration in its historical context with an emphasis on the various classical	A learner becomes a good, responsible and committed citizen as this paper plays a major role in making him aware of system of

		<p>and contemporary administrative theories. The course also explores some of the recent trends, including feminism and ecological conservation and how the call for greater democratization is restructuring public administration. The course will also attempt to provide the students a comprehensive understanding on contemporary administrative developments.</p>	<p>public administration and governance, the backbone of a modern democratic government. Being aware of various burning issues related to public administration such as gender, ecology and environment etc, one would make himself move structured and deliberative. This is now a greater sense of meaningful and active participation gets developed in him.</p>
<b>PSCC 303</b>	<b>Perspective on International Relations and World History</b>	<p>This paper seeks to equip students with the basic intellectual tools for understanding International Relations. It introduces students to some of the most important theoretical approaches for studying international relations. The course begins by historically contextualizing the evolution of the international state system before discussing the agency structure problem through the levels-of-analysis approach. After having set the parameters of the debate, students are introduced to different theories in International Relations. It provides a fairly comprehensive overview of the major political developments and events starting from the twentieth century. Students are expected to learn about the key milestones in world history and equip them with the tools understand and analyze the same from different perspectives. A key objective of the course is to make students aware of the implicit Euro-centricism of</p>	<p>The reality of modern politico-economic system being in operation in the modern world reflects the present pattern of international relations that has become even the basic of domestic political reality in the majority of the countries. After going through this paper a learner develops theoretical orientation along with the knowledge of historical developments taking place in the international realm required for understanding the stated reality.</p>

		International Relations by highlighting certain specific perspectives from the Global South.	
<b>PSCC 401</b>	<b>Political Processes and Institutions in Comparative Perspective</b>	In this course students will be trained in the application of comparative methods to the study of politics. The course is comparative in both what we study and how we study. In the process the course aims to introduce undergraduate students to some of the range of issues, literature, and methods that cover comparative political.	The perspective and operational aspects of comparative method can be further developed by going through this paper. A learner becomes trained in comparative method and can develop some perspectives to apply various means and methods found to be more effective in the socio political life of the nation.
<b>PSCC 402</b>	<b>Public Policy and Administration in India</b>	The paper seeks to provide an introduction to the interface between public policy and administration in India. The essence of public policy lies in its effectiveness in translating the governing philosophy into programs and policies and making it a part of the community living. It deals with issues of decentralization, financial management, citizens and administration and social welfare from a non-western perspective.	Public policy, which is the fundamental reference for executive performance occupies pivot of Indian administration. A learner after going through this paper becomes aware of the significant aspects of public policy, the basis of good citizenry. With the basic knowledge of different issues one can become a better participant in the system of governance.

<p><b>PSCC 403</b></p>	<p><b>Global Politics</b></p>	<p>This course introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions. In keeping with the most important debates within the globalization discourse, it imparts an understanding of the working of the world economy, its anchors and resistances offered by global social movements while analyzing the changing nature of relationship between the state and trans-national actors and networks. The course also offers insights into key contemporary global issues such as the proliferation of nuclear weapons, ecological issues, international terrorism, and human security before concluding with a debate on the phenomenon of global governance.</p>	<p>After going through this paper a learner becomes aware of globalization, and various aspects, issues and dimensions of globalization, the reality of the present day world. He is exposed to the developments taking place around the world in the field of economy, culture, policy and the contemporary issues that shape the sociopolitical reality of the modern world.</p>
<p><b>PSCG 101</b></p>	<p><b>Nationalism in India</b></p>	<p>The purpose of this course is to help students understand the struggle of Indian people against colonialism. It seeks to achieve this understanding by looking at this struggle from different theoretical perspectives that highlight its different dimensions. The course begins with the nineteenth century Indian responses to colonial dominance in the form of reformism and its criticism and continues through various phases up to the events leading to the partition and independence. In the process, the course tries to highlight its various conflicts and contradictions by focusing on its different dimensions: communalism, class struggle, caste and gender questions.</p>	<p>By going through this paper the students not only become aware of the sacrifices made by our forefathers for national freedom, but also they develop a great sense of patriotism and love for the nation.</p>

<p><b>PSCG 201</b></p>	<p><b>Working of the Indian Constitution.</b></p>	<p>This course acquaints Students with the constitutional design of state structures and institutions, and their actual working overtime .The Indian constitution accommodates conflicting impulses (of Liberty and justice, territorial decentralization and a strong union for instance )within itself .The course traces the embodiment of some of this conflicts in constitutional provisions and shows how these have played out in political practice. It further encourages a study of state institutions in their mutual interaction, and in interaction with the larger extra constitutional environment</p>	<p>A learner of this paper accumulates necessary working knowledge of Indian Constitution, structures and institutions of Indian polity. It helps him becoming a good citizen promotes his participation.</p>
<p><b>PSCG 301</b></p>	<p><b>Governance: Issues and Challenges</b></p>	<p>This paper deals with concepts and different dimensions of governance highlighting the major debates in the contemporary times. There is a need to understand the importance of the concept of governance in the context of a globalising world, environment, administration, development. The essence of governance is explored through the various good governance initiatives introduced in India.</p>	<p>The learner of this paper becomes aware of the fundamentals of governance, the core of the citizenry. They become also responsive to various issues and dimensions of governance that promotes in them the sense of efficient participation.</p>

<p><b>PSCG 401</b></p>	<p><b>Gandhi and the Cotemporary World</b></p>	<p>Locating Gandhi in a global frame, the course seeks to elaborate Gandhian thought and examine its practical implications. It will introduce students to key instances of Gandhi's continuing influence right up to the contemporary period and enable them to critically evaluate his legacy.</p>	<p>Relevance of Gandhi and his thought in the contemporary world can be well understood through this paper. A learner becomes empowered with Gandhian philosophy and ideas by going through this paper.</p>
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<p>SEC301</p>	<p>Public Opinion and Survey Research</p>	<p>The course will introduce the students to the debates, principles and practices of public opinion polling in the context of democracies with special reference to India. It will familiarize the students with how to conceptualize and measure public opinion using quantitative methods, with particular attention being paid to developing basic skills pertaining to the collection, analysis and utilization of quantitative data.</p>	<p>The students will be able to undertake project on its own to conduct survey and research independently.</p>
<p>SEC401</p>	<p>Organization and Leadership Skills</p>	<p>The basic purpose of this course is to orient the students to the world of social responsibility. In this course, the students will have an exposure to various welfare activities being undertaken at different levels and thereby they will have some opportunities to develop their organizational and leadership skills.</p>	<p>Organizational and leadership skills will help the students to involve in the decision making process</p>

Course Outcomes  
**B.A. Sanskrit (Honours) Programme under CBCS**  
J. B. College, Jorhat

CORE Course	Name of the Course	Course Objectives	Course outcomes
SNSC101	Classical Sanskrit Literature (Poetry)	This course aims to get students acquainted with Classical Sanskrit Poetry. It intends to give an understanding of literature, through which students will be able to appreciate the development of Sanskrit Literature. The course also seeks to help students to negotiate texts independently.	Students will be able to analyse the characteristic features of the Classical Sanskrit Poetry as well as identify the different types of Sanskrit poetry.
SNSC102	Critical Survey of Sanskrit Literature	This course aims to get students acquainted with the journey of Sanskrit literature from Vedic literature to Purāṇa. It also intends to give an outline of different shastric traditions, through which students will be able to know the different genres of Sanskrit Literature and Śāstras.	This course will provide the students to understand the different genres of Sanskrit literature and Sastras.
SNSC201	Classical Sanskrit Literature (Prose)	This course aims to acquaint students with Classical Sanskrit Prose literature. Origin and development of prose, Important prose romances and fables Sanskrit are also included here for students to get acquainted with the beginnings of Sanskrit Prose literature. The course also seeks to help students negotiate texts independently.	This course will provide for a glimpse into the origin and development of Sanskrit Prose literature, the divisions of Sanskrit prose with special reference to the prominent Sanskrit prose writers.

SNSC202	Self-Management in the Gītā	The objective of this course is to study the philosophy of self-management in the Gītā. The course seeks to help students negotiate the text independently without referring to the traditional commentaries so as to enable them to experience the richness of the text.	This course helps the students to understand the concept of self-management, the process of controlling mind, the theory of action, devotion and knowledge.
SNSC301	Classical Sanskrit Literature (Drama)	This course aims to acquaint students with three most famous dramas of Sanskrit literature which represent three stages in growth of Sanskrit drama.	It gives the understanding about the history of origin and development of Indian dramaturgy and also knowledge about the most popular dramas of Sanskrit literature.
SNSC302	Poetics and Literary Criticism	The study of <i>sahityasastra</i> (Sanskrit Poetics) embraces all poetic arts and includes concepts like <i>alamkara</i> , <i>rasa</i> , <i>riti</i> , <i>vakrokti</i> , <i>dhvani</i> , <i>aucitya</i> etc. The entire domain of Sanskrit poetics has flourished with the topics such as definition of poetry and divisions, functions of word and meaning, theory of <i>rasa</i> and <i>alamkara</i> (figures of speech) and <i>chandas</i> (metre), etc. This develops capacity for creative writing and literary appreciation.	This course helps the students to know about the history of Sanskrit Poetics, the concept of <i>chandas</i> , <i>alamkara</i> , theory of <i>rasa</i> , <i>riti</i> , <i>dhvani</i> etc and to make creative writing.
SNSC303	Indian Social Institutions and Polity	Social institutions and Indian Polity have been highlighted in <i>Dharma-Sastra</i> literature. The aim of this course is to make the students acquainted with various aspects of social institutions and Indian polity as propounded in the ancient Sanskrit texts such as <i>Samhitas</i> , <i>Mahabharata</i> , <i>Purana</i> , Kautilya's <i>Arthasastra</i> and other works known as <i>Nitisastra</i> .	This course provides the students with the various aspects of social institutions and political institutions prevalent in ancient India as depicted in the early Sanskrit literature.

SNSC401	Indian Epigraphy, Paleography and Chronology	This course aims to acquaint the students with the epigraphical journey in Sanskrit, the only source which directly reflects the society, politics, geography and economy of the time. The course also seeks to help students to know the different styles of Sanskrit writings.	This course helps the students to know about the ancient writing styles and political, economic, geographic, cultural and social aspects embedded therein.
SNSC402	Modern Sanskrit Literature	The purpose of this course is to expose students to the rich & profound tradition of Modern creative writing in Sanskrit, enriched by new genres of writing.	It gives the students the skill of creative writing in modern Sanskrit.
SNSC403	Sanskrit and World Literature	The course is aimed to provide information to students about the spread & influence of Sanskrit literature and culture through the ages in various parts of the world in medieval & modern times.	This course provides the students to know about the influence of Sanskrit literature in World literature and a comparative study.
SNSG101	Sanskrit Drama and Poetry	This course aims to acquaint the students with Sanskrit drama and poetry.	This course provides the students the knowledge of Sanskrit drama and poetry.
SNSG201	Basic Sanskrit	This is an elementary course in Sanskrit language designed for students who wish to learn Sanskrit from the very beginning. Essential Sanskrit grammar will be introduced (without reference to Panini's sutras) through the multiple example method with emphasis on students constructing themselves sentences.	This course helps the students to improve the skill of making sentences themselves.
SNSG301	Indian Culture and ancient	This course aims to acquaint the students with ancient Indian Culture, <i>Dharmasastras</i> and ancient Indian Polity.	This course helps the students to know about ancient Indian culture,

	Indian Polity		<i>Dharmasastras</i> and Indian polity.
SNSG401	Sanskrit Poetics and Poetry (Old & Modern)	This course aims to get students acquainted with the Bhakti Literature & Modern Sanskrit Poetry and also Sanskrit Poetics.	This course provides the students with the knowledge of <i>bhakti</i> literature and modern Sanskrit poetry and poetics.
SEC01	Acting and Script Writing	The acting is connected with the practical aspect of the play and depends on actor while script writing is closely related with society and this paper aims at teaching the theoretical aspect of this art. The training of composition and presentation of drama can further enhance one's natural talent. This paper deals with the rules of presentation of play (acting) and dramatic composition (script writing) and aims at sharpening the dramatic talent of the students.	This course helps the students to develop the skill of acting and script writing in Sanskrit.
SEC302	Sanskrit Metre and Music	The objectives of this course to learn Sanskrit meter for analysis and lyrical techniques. Students will get the complete information regarding selected Vedic and Classical meters with lyrical techniques.	This course helps the students to learn the knowledge of Sanskrit metre and music.

**COMMERCE STREAM**  
**Programme Outcomes**  
**Jagannath Barooah College**

**PO1.Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

**Assessment: Critical Comprehensive Questions and Application Oriented Questions**

**PO2.Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

**Assessment: GD, Seminar, Internal Assessment**

**PO3. Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.

**Assessment: Feedback from Alumni, Employer.**

**PO4. Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

**Assessment: Union related activities,, Extension Cell, Periodic internship, Participation in Socio-cultural activities.**

**PO5. Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

**Assessment: Development of sense of belongingness to the institute in particular and the society in general through rendition of the college song. Instilling democratic values**

**PO6. Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**Assessment: Environmental Studies and Extension works.**

**PO7. Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes:

**Assessment: Use of library and IT aids in solving problems.**

**COMMERCE STREAM**  
**Programme Specific Outcomes**  
**Jagannath Barooah College**

**PSO1:** Understand the basic conceptual aspects of accounting, finance, taxation, management.

**PSO2:** Application of knowledge of different branches of trade and commerce in solving / analyzing /exploring a real life situation / difficult problems.

**PSO3:** Acquiring Communicative Skill and environmental knowledge and its sustainability.

**PSO4:** Value-based and skill-based knowledge

**PSO5:** knowledge of the important business legislation

**PSO6:** Understanding the organizational behavior and management science.

**PSO7:** Understand the behavior of financial and money markets and perform Cost-benefit analysis for making investment decisions

**PSO7:** Knowledge and application of ICT, statistics and mathematics in complex business situations.

**COMMERCE STREAM**  
**Course Outcomes**  
**B.Com (Honours) Programme**  
**Jagannath Barooah College**

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>C1</b>	<b>Financial Accounting</b>	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions	Skill in application of accounting principles.
<b>C2</b>	<b>BUSINESS LAW</b>	The objective of the course is to impart basic knowledge of the important business legislation along with relevant case law	Basic knowledge of the business laws.
<b>C3</b>	<b>CORPORATE ACCOUNTING</b>	To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.	Skill on preparation of financial statements.
<b>C4</b>	<b>CORPORATE LAWS</b>	The objective of the course is to impart basic knowledge of the provisions of the Companies Act 2013 and the Depositories Act, 1996. Case studies involving issues in corporate laws are required to be discussed	Understand the basic knowledge on company law.
<b>C5</b>	<b>HUMAN RESOURCE MANAGEMENT</b>	The objective of the course is to acquaint students with the techniques and principles to manage human resource of an organization	Understand the technique of managing HR.
<b>C6</b>	<b>INCOME TAX LAW</b>	To provide basic knowledge and equip students with	Knowledge and application of the

	<b>AND PRACTICE</b>	application of principles and provisions of Income-tax Act, 1961 and the relevant Rules	provision of IT act,
<b>C7</b>	<b>MANAGEMENT PRINCIPLES AND APPLICATION</b>	The objective of the course is to provide the student with an understanding of basic management concepts, principles and practices.	Understand the basic concepts of management.
<b>C8</b>	<b>COST ACCOUNTING</b>	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.	Equipped with basic principles of cost accounting.
<b>C9</b>	<b>BUSINESS MATHEMATICS</b>	The objective of this course is to familiarize the students with the basic mathematical tools, with an emphasis on applications to business and economic situations.	Familiarize with use of mathematics in business.
<b>C10</b>	<b>COMPUTER APPLICATIONS IN BUSINESS</b>	To provide computer skills and knowledge for commerce students and to enhance the student understands of usefulness of information technology tools for business operations.	Knowledge on use of ICT in business operations.
<b>Ability-Enhancement Compulsory Course (AECC)-1</b>	<b>BUSINESS COMMUNICATION</b>	To equip students of the B.Com (Hons.) course effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for business communication.	Adequate communicative skill in English language and its business applications.

<b>(AECC)- 2</b>	<b>Environmental Studies</b>	This was followed by framing of the core module syllabus for environmental studies for undergraduate courses of all branches of Higher Education. Consideration is made to minimize gaps between the ideal and real. Genuine endeavor is required to minimize the gaps by intellectual and material inputs. The success of this course will depend on the initiative and drive of the teachers and the receptive students.	Knowledge on Environment and sustainability.
<b>Generic Elective (GE)-1</b>	<b>Micro Economics</b>	<b>The</b> objective of the course is to acquaint the students with the concepts of Micro economics dealing with consumer behavior. The course also makes the student understand the supply side of the market through the production and cost behavior of firms.	Knowledge on consumer behavior in terms of production, supply and market.
<b>(GE)-2</b>	<b>Macro Economics</b>	The course aims at providing the student with knowledge of basic concepts of the macro economics. The modern tools of macro-economic analysis are discussed and the policy framework is elaborated, including the open economy.	Understanding the knowledge of modern tools of macro economics.
<b>(GE)-3</b>	<b>Business Statistics</b>	The objective of this course is to familiarise students with the basic statistical tools used for	Use statistical tools in decision making

		managerial decision-making.	
<b>(GE)-4</b>	<b>Indian Economics</b>	This course seeks to enable the student to grasp the major economic problems in India and their solution.	Knowledge of major economic issues in India
<b>Skill-Enhancement Elective Course (SEC)-1</b>	<b>Entrepreneurship</b>	The purpose of the paper is to orient the learner toward entrepreneurship as a career option and creative thinking and behavior.	Developed entrepreneur skill.
<b>(SEC)-2</b>	<b>Office Management</b>	The purpose of the paper is to orient the learner toward office Management practices.	Knowledge of different tools of office management.

**Course Outcomes**  
**B.A. ECONOMICS (Honours)**  
**Jagannath Barooah College**

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>C1</b>	INTRODUCTORY MICROECONOMICS	To expose the students to the basic principles of microeconomic theory with an emphasis to illustrate how microeconomic concepts can be applied to analyze real-life situations.	Enhance the knowledge on the application of Microeconomic theory.
<b>C2</b>	MATHEMATICAL METHODS IN ECONOMICS-I	To transmit the knowledge of basic mathematics to the learners enabling the latter to study the macroeconomic theory, statistics and econometrics.	Application of mathematical techniques to economic theory in general.
<b>C3</b>	Principles of Macroeconomics-I	This course introduces students to the basic concepts in Macroeconomics. Students are also introduced to the definition, measurement of the macroeconomic variables like GDP, consumption, savings, investment and balance of payments.	Skills on identification and measurement of economic variables.
<b>C4</b>	MATHEMATICAL METHODS IN ECONOMICS - II	The objective of this course is to transmit the body of basic mathematics that enables the study of economic theory specifically the courses on micro and macroeconomic theory, statistics and econometrics.	. Application of mathematical techniques to economic theory in general.

<b>C5</b>	INTERMEDIATE MICROECONOMICS - I	To provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Mathematical tools are used to facilitate understanding of the basic concepts.	Understanding the behaviour of the consumer and the producer and also the behaviour of a competitive firm, helps learners to formulate strategic plan.
<b>C6</b>	INTERMEDIATE MACROECONOMICS - I	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 determination in a closed economy in the short run as well as medium run, and the role of policy in this context.	Knowledge on model building.
<b>C7</b>	STATISTICAL METHODS FOR ECONOMICS	This course begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It incorporates the concept of probability, probability distributions of discrete and continuous random variables and of joint distributions, followed by a discussion on sampling techniques used to collect survey data...	Understand the basic concepts of statistics for analysis and explanation.
<b>C8</b>	INTERMEDIATE MICROECONOMICS - II	The emphasis of this course is to give a conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and	Use of mathematical tools and reasoning

		topics under information economics.	
<b>C9</b>	INTERMEDIATE MACROECONOMICS - II	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	Familiarize with the long run dynamic issues.
<b>C10</b>	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.	Knowledge on formulation and testing of hypothesis based on relevant statistical techniques.
<b>C11</b>	INDIAN ECONOMY-I	Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy in India in the post-Independence period, with special emphasis on paradigm shifts and turning points.	Understanding the spatial and temporal dimension of Indian Economy
<b>C12</b>	DEVELOPMENT ECONOMICS-I	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	Understanding the development situations of the country from different

		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.	perspectives.
<b>C13</b>	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.	Familiarize with the sector-specific growth of the country.
<b>C14</b>	DEVELOPMENT ECONOMICS-II	The course begins with the basic demographic concepts and their evolution during the process of development and ends with reflections on the role of globalization and increased international dependence on the process of development.	Knowledge on demographic concepts and impact of globalization.
<b>DSE-15</b>			
<b>DSE-16</b>			
<b>DSE-17</b>			
<b>DSE-18</b>			

The participatory management system in J B College is not new. Over the years, the management system has been decentralized and the teachers, office-staff and students' representatives have been actively involved in the decision making process of the institute. For ensuring effective participation of the teachers, employees and students, various platforms in the form of committees/cells are constituted where the relevant matters are discussed and decisions are taken accordingly before being approved by the Governing Body.

Immediately after the conferment of fresh autonomous status by the UGC in October 2015, the college faced a dilemma whether to adopt credit system or continue with conventional marking system. Meanwhile, we were aware of the new system called CBCS suggested by the UGC. Implementing CBCS has been a great task. The college authority realized that opinion and cooperation of all the stakeholders for successful implementation of the new system was an imperative. Therefore, a careful attempt with a definite road map was prepared by the authority to engage the prominent stakeholders-students, teachers and employees of the college in this venture.

Accordingly, the matter was first discussed in the meeting of the IQAC held on .....The Principal initiated discussion by presenting the course structure under the CBCS. Members present in the meeting actively participated in the discussion and finally suggested for the implementation of the system. The meeting also suggested the Principal to raise the issue in the meeting of the Heads of the Departments.

A meeting of the Heads of the Departments was convened by the Principal on 12-03-2016. The Principal raised the issue of implementing the CBCS. Members present in the meeting suggested the Principal to have a thorough discussion on the issue in the staff meeting.

Within a month, the Principal convened a staff meeting as suggested. The meeting was held on 20-04-2014. Almost all teachers were present in the meeting. A point-to-point discussion took place on the implementation of the CBCS. Moreover, Dr. Nurul Amin, Associate Professor in Geology presented his speech on the CBCS with examples. Members were actively involved in the discussion and what was most striking was that everybody came forward with a positive outlook. Finally the meeting resolved to implement the CBCS from the academic session 2016-17. The meeting also realized that since the system was new, there may be some problems at the initial stage. Therefore, teachers were ready to work sincerely with a great accountability.

Meetings of different Board of Studies were held immediately after the decision of implementing the CBCS. The relevant course curriculum for the 1<sup>st</sup> and 2<sup>nd</sup> semesters has been prepared and passed for approval in the Academic Council meeting held on ..... The GB meeting held on 20-05-2016 has finally approved the syllabi of all subjects as prepared by the BoS under CBCS. Finally, the CBCS was introduced from the academic session 2016-17.

**Course Outcomes:** The CBCS in J.B. College started in the academic session 2016-17. The courses have been prepared by the Board of Studies, approved by the Academic Council and finally approved by the Governing Body for implementation. Till now, courses have been approved up to 4<sup>th</sup> semester and the 5<sup>th</sup> and 6<sup>th</sup> semesters courses are yet to be approved by the GB for implementation. As such, the outcomes of the courses which have already been approved by the GB have been presented below subject-wise.

**Subjects:** 1. Botany                      2. Chemistry                      3. Geology                      4. Electronics,  
5. Mathematics                      6. Physics                      7. Statistics                      8. Zoology

**Course Outcomes**  
**B.Sc. Botany (Honours) Programme under CBCS**  
**J. B. College, Jorhat**

<b>Core course</b>	<b>Name of the course</b>	<b>Course Objectives</b>	<b>Course outcomes</b>
<b>BOTC101</b>	<b>Algae and Microbiology</b>	To study of microorganisms, or microbes, a diverse group of generally minute, simple life-forms that include viruses, Bacteria and Algae.	The field provides details knowledge about the structure, function, and classification of such organisms and with ways of both exploiting and controlling their activities.
<b>BOTC102</b>	<b>Biomolecules and Cell Biology</b>	To provide students with an advanced integrated knowledge and understanding about the structure, organization of the cell and cell organelles along with molecular architecture of eukaryotic <i>cells</i> and organelles.	The course provides details about the structure of the biomolecules found in all living organisms and also describes the function and structure of cells and organelles including the metabolic reactions that occur in cells.
<b>BOTC201</b>	<b>Mycology and phytopathology</b>	The objective of the course is to ensure a basic knowledge on microscopic and macroscopic fungal classes and their characteristics thallus structure, reproduction, ecology, significance and also life cycles of some important genera. Under phytopathology the course is oriented to impart a good knowledge on some economically important plant	The course contents give the understanding on fungal world as well as plant diseases caused by causal organisms. It will also help students in research activities particularly in agricultural sectors.

		diseases caused by viruses, bacteria and fungi.	
<b>BOTC202</b>	<b>Archegoniate</b>	To ensure a basic knowledge on different divisions of archegonia bearing plants like bryophyte (moss like plants), pteridophyta ( fern like plants) and gymnos (naked seeded flowering plants ).	The course will give a better understanding on evolutionary relations from first land plants to higher naked seeded flowering plants via fern like plants from early Paleozoic era to recent.
<b>BOTC301</b>	<b>Anatomy of angiosperms</b>	The objective of the course is to impart the basic knowledge of internal organizations of angiosperm pant bodies.	The student will able to know the different types of cells, tissues, their organizations in stems and roots , activity of cambium, dendrochronology, anatomical adaptation, protective system , applications of anatomy in systematic and pharmacognosy
<b>BOTC302</b>	<b>Economic botany</b>	The objective of the course is to impart the knowledge of different types of economically important plants and their application in day to day life.	The students will able to know the different types of cereals, legumes, spices, beverages, oil, sugar, drug yielding plants, timber plants, fibers, their cultivation, processing, evolution of new crops, varieties, importance of germplasm diversity.
<b>BOTC303</b>	<b>Genetics</b>	The objective of the course is to impart basic knowledge of genes and their role in transferring the genetic information.	It gives the knowledge of genes their structure, interactions and genetic variation.
<b>BOTC401</b>	<b>Molecular biology</b>	To impart basic knowledge on nucleic acids (DNA and RNA) and their processing and modifications.	The course content provides an understanding of the structure, role of DNA and RNA which in turn plays a pivotal role in deciphering the genetic information.

<b>BOTC402</b>	<b>Plant Ecology and Phytogeography</b>	This course will enable the students to have a better relationship between the biotic and abiotic environments.	The students will be enriched with better perspective about the biotic components like soil, water, light, temperature, wind, fire etc and different aspects of biotic components like communities, ecosystem, phytogeography etc.
<b>BOTC403</b>	<b>Plant Systematics</b>	To have a systematic knowledge about the identification, Nomenclature and classification of the plant kingdom. Another objective is to draw phylogenetic relationship among the different plant species.	Students will be enriched with the detail history of the Nomenclature, classification and phylogeny of the plant species. They will also be enriched with the recent development of the plant taxonomy.

**Course Outcomes**  
**B.Sc. Chemistry (Honours) Programme under CBCS**  
**J. B. College, Jorhat**

<b>CORE COURSE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OBJECTIVE</b>	<b>COURSE OUTCOME</b>
<b>CHMC101</b>	<b>Inorganic Chemistry I:</b> Atomic Structure, Periodicity of Elements, Chemical Bonding-I & Oxidation and Reduction	To understand the important features of the quantum mechanical model of atom. To study the various approaches of bonding and shape of molecules. To apply the electrode potential in redox reactions and redox principle in volumetric analysis.	The students will be able to define the atomic orbital and their shape in terms of quantum number, understand radial probability distribution for different orbital. The students will understand the periodic law, recognize the periodic trends in physical and chemical properties, and the various electronegativity scales.
<b>CHMC102</b>	<b>Physical Chemistry I:</b> States of Matter & Ionic Equilibrium	To impart basic knowledge of the three states of matter and the principles governing interaction of ions.	The students will understand kinetic model, collision properties, distribution of molecular speed and the behavior of real gases. They will know the physical

			properties of liquids and their applications. They will be familiar with the elementary ideas of symmetry, crystal systems and Bragg's law and its application in structure elucidation.
<b>CHMC201</b>	<b>Organic Chemistry I:</b> Basics of Organic Chemistry, Stereochemistry, Aliphatic & Aromatic Hydrocarbons	To introduce with a variety of structural aspects of organic molecules that are designed to lay the foundations for the study of the organic molecules.	Students will be able to familiar with the latest developments related to organic reactions, their mechanism and stereochemical aspects.
<b>CHMC202</b>	<b>Physical Chemistry II:</b> Chemical Thermodynamics & its Applications, Chemical Equilibrium, Solutions & Colligative Properties	To discuss the role of energy in chemistry. To discuss equilibrium and the direction of natural change in chemistry.	The students will have the concept of heat, work and energy. They will be familiar with the use of thermochemical data. They will understand the three laws of thermodynamics and their applications in chemical science.
<b>CHMC301</b>	<b>Inorganic Chemistry II:</b> General Principles of Metallurgy, Acids and Bases, Chemistry of <i>s</i> & <i>p</i> -Block Elements, Noble Gases & Inorganic Polymers	To understand Inorganic Chemistry in the form of materials science. To understand the occurrence of metals based on electrode potential, To classify substances as acids or bases according to Bronsted-Lowry and Lewis concepts, To understand Hard and Soft Acids and Bases (HSAB) principle and its application, To know the role of solvent in acidity or basicity of substances.	They will be able to apply thermodynamics in extraction of metals, to understand specific method of purification for some metals. Students will have the general trends and the chemistry of elements of group 12 to 18, to describe preparation, properties and uses of some compounds of these groups, to understand the MOT & VBT in some compounds of Xe. They understand inorganic polymers, types, structural aspects and applications.
<b>CHMC302</b>	<b>Organic Chemistry II:</b> Alkyl halides, Alcohols, Phenols,	To impart basic knowledge on the chemistry of certain	The important of organic chemistry is not in the subject matter alone. Mastering

	Ethers & Epoxides, Carbonyl Compounds, Carboxylic Acids & their Derivatives, Sulphur containing Compounds	classes of organic compounds viz halogenated hydrocarbons, alcohols, phenols, ethers, carbonyl compounds, carboxylic acids and their derivatives.	organic chemistry requires a thorough understanding of fundamentals and the ability to use these fundamentals to analyze, classify and predict. It is expected that the matters dealt will serve the purpose.
CHMC303	<b>Physical Chemistry III:</b> Phase Equilibria & Chemical Kinetics, Catalysis and Surface Chemistry	To understand phase diagram which summarize the behavior of substances under different condition. To introduce the principles of the study of reaction rates.	Students will have the concept of phases, derivation of phase rule and phase diagram with applications up to three component system. They will be able to express rate law in terms of the advancement of a reaction. Kinetics of complex reactions and temperature dependence of reaction rate and the theories of reaction rates are expected to cover.
CHMC401	<b>Inorganic Chemistry III:</b> Coordination Chemistry, Transition Elements, Lanthanoids & Actinoids, Bio-inorganic Chemistry	To understand bonding in coordination compounds. To have a basic knowledge of the properties of d and f block elements and to understand the role of metals in our body	The students will be familiar with Werner's theory, They will understand the nature of bonding in terms of VBT, MOT, CFT & LFT. They will learn the stability of coordination compounds, polynuclear complexes and chelate effect. They will be able to describe the properties of <i>d</i> & <i>f</i> block elements, to understand the stability of various oxidation states in terms of Latimer and Bsworth diagrams. To understand the role of Fe, To describe the metal toxicity in our body
CHMC402	<b>Organic Chemistry III:</b> Chemistry of Nitrogen containing Functional Groups, Polynuclear Hydrocarbons,	To deal in detail the different aspects of the chemistry of heterocyclic compounds, polynuclear	Heterocyclic compounds are widely distributed in nature and have applications in diverse fields including the medicinal and biochemistry. The topic dealt will introduce

	Heterocyclic Compounds and Alkaloids & Terpenes	hydrocarbons, alkaloids, terpenoids etc.	students with all these. Also, the discussion will introduce students with the chemistry of certain alkaloids and terpenoid compounds that are beneficial to mankind.
<b>CHMC403</b>	<b>Physical Chemistry IV:</b> Electrochemistry	To understand the theories governing the flow of electric current in solution and the working of Galvanic cells	The theoretical explanation of conductivity of strong and weak electrolyte, transference number determination and application of conductance measurement. Electrochemical cells and application of EMF measurement using different electrodes. Concentration cells and potentiometric titration are expected to be known.

### Course Outcomes

**B.Sc. Electronic Science (Honours) Programme under CBCS**

**J.B. College, Jorhat**

<b>Core Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
ELTC101	Basic Circuit Theory And Network Analysis	To impart the basic concept of circuits and its analysis for both AC and DC. This course helps the students to simplify complicated circuits using network theorems and to familiarize with various electronic components and verification of different network theorems using hardware.	Ability to understand the basic concept of circuits and simplifying complex circuit to an equivalent simple circuits applying network theorem.

ELTC102	Mathematics Foundation for Electronics	This course includes a detailed understanding of differential equations, matrices, complex variables, and functions. It is designed to develop the mathematical foundation for solving engineering problems.	Develop Skill on mathematical tools for solving engineering problems and ability to perform various tasks using mathematical simulation software.
ELTC201	Semiconductor Devices	This course imparts a basic knowledge on fundamental of crystal structures and various semiconductor devices like p-n junction diodes, BJT, FET and power devices. The course also includes basic understanding of semiconductor devices and their characteristics using hardware and circuit simulation software tools.	Familiarization with various semiconductor devices and understand their characteristics and applications.
ELTC202	Applied Physics	To introduce students the basic concept of physics. This course deals with various units under mechanical, thermal, electrical and magnetic properties of materials as well as evaluating some important physical phenomena using experimental setups.	Ability to understand the physical concept applied in Electronics.
ELTC301	Electronic Circuits	The objective of the course is impart deep understanding on diode circuits, bipolar junction transistors, amplifiers, oscillators and MOSFET circuits. This paper also gives practical knowledge in electronic circuit analysis by hardware and simulation software.	Deep understanding of various electronics circuits and ability to design electronic circuits.
ELTC302	Digital Electronics and VHDL/Verilog	This course provides a basic concept on digital world. With this paper, students can learn about digital number systems, coding, logic gates and digital	Expertise in digital electronics and to realize basic digital systems by VHDL coding.

		algebra to implement in electronic devices. This course also includes basic introduction to VHDL and realizing basic digital circuits by VHDL coding, with circuit simulation software as well as in hardware lab.	
ELTC303	C Programming and Data Structures	To give skill on C Programming and Data Structures. The course comprises grasp of basic concept of C programming, various advanced features, declaration and data structures.	Acquire basic understanding of C programming and Data Structures and able to solve basic mathematical problems using C language.
ELTC401	Operational Amplifiers and Applications	This course focuses specifically on Operational Amplifiers and Applications. The content of the paper will help students to have an extensive concept of Op-Amps and also ability to design various circuits using Op-Amps.	Attain basic understanding in Op-Amps and capable of designing various circuits using Op-Amps.
ELTC402	Signals and Systems	This course contains a basic introduction to signals and systems, with mathematical and graphical representations, LTI systems and Fourier and Laplace transforms methods for analysing LTI systems. It also includes understanding and generation of signals by using mathematical simulation software like Matlab/SciLab.	Trains with basic operations and generation of signals and able to analyze systems using Laplace and Fourier transformations.
ELTC403	Electronic Instrumentation	Electronic Instrumentation paper assists students to recognize the configurations and functional explanation of measuring instruments, their basic performance, working principles, and characteristics. The course includes oscilloscopes, signal generators, Sensors, Transducers and various instruments of	Obtain knowledge of the basic techniques and configuration of various sensors and Transducers and uses.

		electronics for multidisciplinary fields.	
SEC301	Design and Fabrication of Printed Circuit Boards	This skill-based paper enhances student's understanding on PCB fundamentals, schematic and layout designing and Technologies. This course encourages students to develop a complete product of PCB with systematic process from designing and analysing by circuit design simulation and then fabricating with required materials.	Ability to design and fabricate PCB product and acquire hands on skill on PCB designing.
SEC401	Internet Technologies	Internet and Java programming is offered under skill-based course to give a basic concept on internet technology, and applications of Java programming with its advanced features.	Improve the skill on different networking techniques used in internet technology and learn the different applications of Java programming.
ELTG101	Electronic Circuits and PCB Designing	To provide understanding on semiconductor devices like diode, bipolar transistors, amplifiers and its applications. This paper also gives hand on training on PCB designing.	Ability to know the applications of semiconductor devices and develop skill to design and fabricate PCB product.
ELTG201	Digital System Design	To acquaint the students with digital number systems, coding, logic gates and digital algebra to implement in electronic devices. This course also includes basic introduction to VHDL and realizing basic digital circuits by VHDL coding.	Ability to know about digital circuits and its applications.
ELTG301	Instrumentation	To familiarize with different instruments and its applications.	Learn about different instruments and its applications.
ELTG401	Consumer Electronics	To familiarize with different Consumer Electronic products and its applications.	Know about Consumer Electronic products and its applications.

Course Outcomes  
**B.Sc. Geology (Honours) Programme under CBCS**  
 Jagannath Barooah College

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Outcomes</b>
GEOC101	Earth System Science	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• The planet Earth as integral part of the universe, with its genesis and gross characteristics being a reflection of cosmic process.</li> <li>• The dynamism affecting every aspect of the planet Earth and the interrelationship between the geodynamic processes.</li> <li>• The internal zonation of the Earth including the process of zonation and the physical and chemical characters of each zone.</li> <li>• The characteristics of the earth's magnetic field and the dynamic processes in the core of the Earth that generates this field.</li> <li>• The global geodynamic processes with focus on plate tectonics and the geodynamic elements.</li> </ul>
GEOC102	Mineral Science	<p>At the end of this course the student will have knowledge and understanding of:</p> <ul style="list-style-type: none"> <li>• Morphology and internal structure of different crystal system and groups.</li> <li>• Physical chemical and optical properties of rock forming minerals.</li> </ul>
GEOC201	Elements of Geochemistry	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Geochemical classification, periodic table, bonding, states of matter, atomic environment of elements from geochemical point of view.</li> <li>• Geochemical characters of different layers of the Earth.</li> </ul>

		<ul style="list-style-type: none"> <li>• Element transport and mineral reactions in different geochemical environment</li> <li>• Geochemistry of solid earth, solar materials and magmatic products.</li> <li>• Geochemical behaviour of major elements.</li> </ul>
GEOC202	Structural Geology	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Relation of topography with geological structure</li> <li>• Mechanics of related to formation of geological structure.</li> <li>• Different elements, formation and classification of different types of geological structure.</li> </ul>
GEOC301	Igneous Petrology	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Genesis, nature, composition, form, thermal and chemical properties of magma.</li> <li>• Classification, structure, texture and mode of occurrence of igneous rock.</li> <li>• Thermodynamic properties of igneous rock</li> <li>• Magmatism in different tectonic settings.</li> <li>• Petrogenesis of major igneous rock types.</li> </ul>
GEOC302	Sedimentary Petrology	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• The processes of formation of sediment and sedimentary rocks.</li> <li>• Structure and textures of sedimentary rock and their application in study of geological history.</li> <li>• Characteristics of different sedimentary rock</li> </ul>
GEOC303	Palaeontology	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Different fossilization processes, and evolutionary theories and taxonomy of organisms.</li> <li>• Morphology, biostratigraphic significance and functional adaptation of some major invertebrate, vertebrate and plant fossil forms.</li> <li>• Academic, environmental and industrial applications fossils.</li> </ul>
GEOC401	Metamorphic Petrology	<p>At the end of this course the student will have knowledge and understanding of</p>

		<ul style="list-style-type: none"> <li>• Agents and types of metamorphism</li> <li>• Metamorphic facies, grades zones, texture and structure and thermodynamics of metamorphism.</li> <li>• Relationship between metamorphism, tectonic and deformation and types of metamorphic reaction.</li> <li>• Different metamorphic rock associations, migmatites and metasomatism</li> </ul>
GEOC402	Stratigraphic Principles and Indian Stratigraphy	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Stratigraphic principles, units, code of stratigraphic nomenclature, different branches laws and concepts of stratigraphy.</li> <li>• Precambrian, phenerozoic stratigraphy of India.</li> <li>• Stritigraphic boundaries and volcanic providences of India.</li> </ul>
GEOC403	Hydrology and Oceanography	<p>At the end of this course the student will have knowledge and understanding of</p> <ul style="list-style-type: none"> <li>• Introductory concepts and technical definitions of hydrogeology</li> <li>• Laws and principles of groundwater dynamics, well hydraulics and ground water exploration.</li> <li>• Concepts of ground water management</li> <li>• Preliminary ideas of different oceanography, its branches, origin of oceans and related aspects of ocean water.</li> </ul>

Course Outcomes  
**B.Sc. Mathematics (Honours) Programme under CBCS**  
J. B. College, Jorhat, Assam

CORE COURSE	NAME OF THE COURSE	COURSE OBJECTIVES	COURSE OUTCOMES
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<b>MTHC 101</b>	<b>Calculus</b>	Students will be able to identify the analytical aspects of Mathematical concepts and will be able to handle practical problems. By Computer Laboratory, they will be exposed to a hand on experience on various Mathematical Software.	Exposure to basic analytical aspects & Mathematical Software.
<b>MTHC 102</b>	<b>Algebra</b>	The students can have a deeper insight of the developments of the generalized notions of Trigonometry, Also, will be able to use matrix methods for solving linear equations.	Enhance the classical ideas of algebraic and analytic structures.
<b>MTHC 201</b>	<b>Real Analysis</b>	To infuse the classical ideas of algebraic and analytic structures.	Develop deeper insight of analytical aspects of Real Analysis
<b>MTHC 202</b>	<b>Differential Equations</b>	Students will be able to understand the basic idea of mathematical model by using differential equations, and ideas on the basics of differential equations.	Skill to model practical problems & solve using Mathematical Software.
<b>MTHC 301</b>	<b>Theory of Real Functions</b>	Students will be able to identify the analytical aspects of Mathematical concepts of Continuity, uniform Continuity, Differentiability and applications	Enhance the basic properties of real functions .
<b>MTHC 302</b>	<b>Group Theory I</b>	Students will be able to identify the Structures & characteristics of Abstract Algebraic.	Basic concept of structures and formation of groups in Abstract Algebra.
<b>MTHC 303</b>	<b>PDE and Systems of ODE</b>	Students will be able to understand the basic idea of mathematical model by using partial differential equations, and ideas on the basics of partial differential equations.	Utilization of partial differential equation for formation of Mathematical model.
<b>MTHC 401</b>	<b>Numerical Methods</b>	Students will be able to use matrix methods for solving linear equations, have ideas on the basics of differential equations and also about the numerical methods of obtaining results where complexity	Basic concepts of various numerical

		of obtaining analytical solutions is sufficiently high.	approach to solve practical problems.
<b>MTHC 402</b>	<b>Riemann Integration and Series of Functions</b>	Students will be able to understand the basic idea of Riemann Integration and Series of Functions.	Analytical aspects Riemann Integration and Series of Functions.
<b>MTHC 403</b>	<b>Ring Theory and Linear Algebra I</b>	Students will be able to use algebraic structures for explaining geometric concepts.	Equipped with basic and geometric concepts of Ring Theory & Linear Algebra
<b>MTHG-101</b>	<b>Trigonometry &amp; Analysis I</b>	Students will be able to use matrix methods for solving linear equations and also about the numerical methods of obtaining results where complexity of obtaining analytical solutions is sufficiently high.	Skill to solve linear equations and enhance trigonometric concepts.
<b>MTHG-201</b>	<b>Analysis II</b>	Students will be able to identify the analytical aspects of Mathematical concepts.	Develop deeper insight of Analysis.
<b>MTHG-301</b>	<b>Computational Methods</b>	The students will be able to formulate and solve various practical models using Linear Programming techniques and also by using Computer Laboratory they will attain computational proficiency in dealing with Mathematical Software.	Skill to model & solve practical problems using Mathematical Software.
<b>MTHG-401</b>	<b>Coordinate Geometry &amp; Abstract Algebra</b>	The students will be able to get a deeper understanding of geometrical approach through Co-ordinate system and also able to know about preliminary idea about abstract algebra and its application in various fields like chemical structure.	Develop deeper insight of Coordinate Geometry & Abstract Algebra.
<b>SEC301</b>	<b>Latex &amp; HTML/Computer Graphics</b>	To trained students for effective writing of documents and deigning web-pages.	Develop mathematical document writing & web-designing skill.
<b>SEC401</b>	<b>Graph Theoretic Modeling</b>	Students will be able to understand the fundamentals of graph theory and different representation of graphs.	Utility of Graph Theory and its representations on practical fields.

**Course Outcomes**  
**B.Sc. Physics (Honours) Programme under CBCS**  
**J.B. College, Jorhat**

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>PHYC101</b>	Mathematical Physics-I	The objective of the course is to impart basic knowledge of Mathematics in solving problems of interest to physicists.	It gives the understanding of the physical laws and appreciation of the elegance and beauty of physics.
<b>PHYC102</b>	Mechanics	The objective of the course is to impart a good foundation of the concepts of mechanical properties of matter	The knowledge of the mechanical properties of matter in the solid and the liquid state is essential for every student of physics.
<b>PHYC201</b>	Electricity and Magnetism	To help the students to acquire the conceptual knowledge of electricity and magnetism	The course content equips the students to comprehend Physics better.
<b>PHYC202</b>	Waves and Optics	The objective of the course is to impart knowledge relating to waves, geometrical and physical optics.	Understand the basic knowledge simple harmonic motion and physical behavior of light.
<b>PHYC301</b>	Mathematical Physics-II	The objective of the course is to impart basic knowledge of Mathematics in solving problems of interest to physicists.	It gives the understanding of the physical laws and appreciation of the elegance and beauty of physics. The course content equips the students to comprehend Physics better.

<b>PHYC302</b>	Thermal Physics	The objective of the course is to give knowledge relating to thermal properties of matter.	Thermal Physics is concerned with the transformation of the energy of one kind into another. Relation of heat to other forms of energy such as magnetic, electrical, etc., also come under the scope of thermal physics.
<b>PHYC303</b>	Digital Systems and Applications	The objective of the course is to provide the student with an understanding of basic knowledge digital electronics.	Electronics is a major discipline of physics, which has developed tremendously and has changed daily lives to the extent that was unimaginable a few decades back. There is still tremendous scope for further developments in this field of physics, and thus it is essential that the students of physics have a good foundation of electronics, which the course intends to achieve.
<b>PHYC401</b>	Mathematical Physics-III	The objective of the course is to impart basic knowledge of Mathematics in solving problems of interest to physicists.	It gives the understanding of the physical laws and appreciation of the elegance and beauty of physics. The course content equips the students to comprehend Physics better.
<b>PHYC402</b>	Elements of Modern Physics	The objective of this course is to familiarize the students with the branch of modern physics.	Atomic Physics remains a key component of physics, both because of its fundamental importance to the understanding of many aspects of modern physics and also because of the exciting new

			developments that have occurred in this field. The developments in nuclear physics have affected our worldview at ends, the microscopic and macroscopic. With dimensions of the order of 10 m and energies of the order of several MeV involved in nuclear phenomena, the entire structure of classical mechanics falls apart.
<b>PHYC403</b>	Analog system and Applications	The objective of the course is to provide the student with an understanding of basic knowledge analog electronics.	Electronics is a major discipline of physics, which has developed tremendously and has changed daily lives to the extent that was unimaginable a few decades back.

**Course Outcomes**  
**B.Sc. Statistics (Honours) Programme under CBCS**  
**J.B. College, Jorhat**

<b>CORE Course</b>	<b>Name of the Course</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>STSC-101</b>	<b>Descriptive Statistics</b>	To Develop knowledge of the various aspects of tools of Descriptive Statistics	Skill in application of Descriptive Statistics
<b>STSC-102</b>	<b>Calculus</b>	To impart basic background knowledge of calculus essential for Statistics	Knowledge of Calculus
<b>STSC-201</b>	<b>Probability and Probability distribution</b>	To provide basic knowledge of different discrete and continuous probability distributions.	Knowledge of Probability and distributions.

<b>STSC-202</b>	<b>Algebra</b>	To impart basic background knowledge of algebra	Understand the basic knowledge on Algebra
<b>STSC-301</b>	<b>Sampling Distribution</b>	To provide knowledge of sampling distribution and tests of significance.	Understand the knowledge and applications of different tests of significance.
<b>STSC-302</b>	<b>Sample survey and Indian Official Statistics.</b>	To introduce concepts and methodology of sample survey and Official Statistical System in India.	Knowledge of sampling techniques and Official Statistical system.
<b>STSC-303</b>	<b>Mathematical Analysis</b>	To impart basic knowledge of Mathematical analysis and Numerical analysis.	Understand the basic concepts of Mathematical analysis
<b>SEE-I</b>	<b>Statistical Data Analysis using SPSS</b>	To review and expand upon Core topics in Statistics using SPSS	Understand SPSS for data analysis.
<b>STSC-401</b>	<b>Statistical Inference</b>	To impart basic knowledge of Parametric and Non Parametric techniques of Testing of Hypothesis	Familiarize with Parametric and Non Parametric techniques
<b>STSC-402</b>	<b>Linear Models</b>	To introduce concepts and methodology of Statistical Modelling.	Knowledge of Linear Models
<b>STSC-403</b>	<b>Statistical Quality Control</b>	To familiarize with the techniques of Industrial Statistics .	Applications of SQC and Quality Management.
<b>SEE-II</b>	<b>Statistical Techniques for Research Methods.</b>	To enable students to understand concepts and aspects related to Research, Data Collection, Analysis and Interpretation.	Knowledge through empirical studies.
<b>GE-1</b>	<b>Statistical Methods</b>	To Develop knowledge of various Statistical Methods.	Knowledge of Basic Statistical Methods
<b>GE-2</b>	<b>Introductory Probability</b>	To provide basic knowledge of Probability and different discrete	Knowledge of Probability and

		and continuous probability distributions.	distributions.
<b>GE-3</b>	<b>Applied Statistics</b>	The objective of this course is to familiarize students with Applied Statistics	Knowledge of Applied Statistical Techniques.
<b>GE-4</b>	<b>Basics of Statistical Inference</b>	To impart basic knowledge of Parametric and Non Parametric techniques of Testing of Hypothesis	Familiarize with Parametric and Non Parametric techniques

**Course Outcomes**  
**B.Sc. Zoology (Honours) Programme under CBCS**

COURSE	COURSE NAME	OBJECTIVE	OUTCOME
ZOOC-101	Non-chordates I: Protista to Pseudo-coelomates	Introduction to Invertebrates (Lower group): their taxonomy and life cycle	Knowledge of taxonomy will be useful for further studies (on those animals). Life cycle and pathogenicity will help in disease prevention.
ZOOC-102	Principles of Ecology	Structure and dynamics of population, Community characteristics, Ecosystem and Wildlife biology.	Knowledge earned will be useful in Conservation of nature and natural resources
ZOOC-201	Non-chordates II: Coelomates	Introduction to Invertebrates (Higher group): their taxonomy and life cycle	Students will appreciate the Evolutionary changes from lower to higher invertebrates
ZOOC-202	Cell Biology	Properties of cells, Internal organization of the Cell, Behaviour of Cells in multicellular organisms	Students may apply their knowledge of Cell biology to selected examples of changes or losses in cell function. These can include responses to environmental or physiological changes or alterations of cell functions brought about by mutation
ZOOC-301	Diversity of Chordates	Introduction to Vertebrates: their taxonomy and selected functions.	Enhance students' knowledge on evolution of structure and function in vertebrates from invertebrates.
ZOOC-302	Physiology: Controlling and Coordinating Systems	Anatomy and functions of bodily systems.	Students will be able to integrate individual functions of the body's different cells, tissues and organs into a functional whole, the human body.
ZOOC-303	Fundamentals of Biochemistry	Chemistry of biomolecules and Enzymes.	Students will be able to describe and explain in molecular terms, chemical processes of living cells.
ZOOC-401	Comparative Anatomy of Vertebrates	Anatomical features of selected systems in vertebrates with special reference to mammals.	Differences and similarities of internal structures in Vertebrates
ZOOC-402	Physiology: Life	Anatomy and functions of bodily systems.	Students will be able to integrate individual functions of the

	Sustaining Systems		body's different cells, tissues and organs into a functional whole, the human body.
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ZOOC-403	Biochemistry of Metabolic Processes	Metabolic processes in Carbohydrate, Lipid and Proteins. ATP synthesis.	By the end of the course, students will have advanced knowledge and understanding in metabolic processes and energy generation from major food sources.
SEC -1	Research Methodology	Define and explain the concept of scientific research, Identify and explain the features and applications of different research methods, Steps in conducting a research, Applications and exercises.	Students will be able to apply their knowledge for completing their Dissertation and for pursuing independent research
SEC -2	Aquarium Fish Keeping	Construction and maintenance of Aquarium, Biology of Aquarium fishes.	Students will be motivated for self-employment.
ZOOG101	Animal Diversity	Introduction to Invertebrates and Vertebrates.	Knowledge of taxonomy will be useful for further studies. Life cycle and pathogenicity will help in disease prevention. Enhance students' knowledge on evolution of structure and function in vertebrates from invertebrates.
ZOOG201	Human Physiology	Anatomy and functions of bodily systems.	Students will be able to integrate individual functions of the body's different cells, tissues and organs into a functional whole, the human body.

ZOOG301	Environment and Public Health	Factors affecting environment, environmental disasters and human diseases	Students will be able to prevent themselves and disseminate their knowledge to safeguard public from Societal and environmental factors that increases the likelihood of exposure and disease in humans.
ZOOG401	Food, Nutrition and Health	Components and nutrients in different food, nutritional biochemistry, diseases: nutritional deficiency, life style related; food and water borne infections and food hygiene	Students will learn Nutritional qualities of food, Role of diet in causing and preventing various Chronic diseases.