

## DEPARTMENT OF ASSAMESE

**Program specific outcome:** On completion of this course, students will attain knowledge on the Assamese language, culture and tradition. This course aims to develop skills in creative writing of Assamese prose and poetry. Competence in the language and grammar will enable students to improve communicative skills. The course also aims to provide a historical insight into the development of the Assamese language and literature.

### COURSE OUTCOME (CBCS)

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
ASM-HC-1016	History of Assamese Literature- 1	They will know about History of Assamese Literature, Pre Sankar Era and Sankar Era
ASM-HC-1026	History of Assamese Literature - 2	A Clear idea about Sarit Sahitya, History, Pre Orunodoi, and Orunodoi Era. Also about the writer of Orunodoi Literature
ASM-HG-1016	Recitation	They will learn the theoretical and practical knowledge Recitation
ASM-HC-2016	Linguistics	They will know about Language, Linguistics and Branches of Linguistics, Phonology, Morphology, Morph and syntax.
ASM-HC-2026	Literary Criticism	They will know about the Assamese Literature and criticism.
ASM-HG-2016	Adaptation	They will learn the theoretical and practical knowledge Adaptation
ASM-HC-3016	Assamese Literature	They will know about Assamese story, poetry and short story.
ASM-HC-3026	Introduction of Assamese Poem	They will learn about old and modern Assamese poetry.
ASM-HC-3036	Assamese Culture	The student will know about the Assamese cultural studies and various religion of Assam
ASM-SE-3014	Skill Development	They will learn about Translation form Assamese to English, English to Hindi and also learn about proof reading
ASM-HG-3016	Assamese Drama And Theatre Art	They will learn the theoretical and practical knowledge of Assamese Drama and Theatre Art

ASM-HC-4016	Comparative Indian Literature	The student will learn about the theory of comparative Indian Literature and Indian Literature
ASM-HC-4026	Assimilation of Assamese Language	They will know about the Assimilation of Assamese Language and also Aryan and non- Aryan Language.
ASM-HC-4036	Assamese Prose	They will know about History of Assamese Prose
ASM-SE-4014	Skill Development	The student will learn how to write creative writings
ASM-HG-4016	Modern Assamese Lyrical Literature	They will learn about the Modern Assamese Lyrical Literature and its development
ASM-HC-5016	Assamese Drama and Presentation Style	The student will learn about History of Assamese Drama and the Presentation Style
ASM-HC-5026	Assamese Grammar	The student will learn about the History of Assamese Grammar, Branches of Grammar and Elements of Assamese Grammar
ASM-HE-5016	Assamese Folk Literature	The student will learn about Folklore of Assam
ASM-HE-5026	Assamese Romantic Poem	The student will learn about Assamese Poem
ASM-HE-5036	Sankardev	They will know about the contribution of Sankardev
ASM-HE-5046	Assamese Science Fiction	They will learn about the Assamese Science Fiction
ASM-HC-6016	Assamese Short story and Novel	They will know about History of Assamese short story and novel
ASM-HC-6026	History of Assamese Script	The student will learn about the Origin of Assamese Script and its evolution
ASM-HE-6016	Lakshminath Bazbaroa	They will learn about the contribution of Lakshminath Bazbaroa towards the Assamese society
ASM-HE-6026	BanikantaKakati	They will learn about the contribution
ASM-HE-6036	Assamese children Literature	They will know about the Assamese Children Literature

ASM-HE-6046	Assamese Dialectology	They will learn about the Assamese Dialect and Dialect used in Assamese Literature
ASM-HE-6056	Project Paper	The student will learn about how to make Project
Paper M-501	Puroni Asomiya Natok	In this paper students will learn about the Assamese Drama like Sankardeva's Rukmini Haran, Madhavdeva's ArjunBhanjan, Shriram Ata's Suvadraharan Nat and Gopal Ata's Janmayatra
Paper M-502	Puroni Asomiya Katha Sahitya	In this paper students will learn about trends of Assamese prose from Bhattadeva to Nathan Brown.
Paper M-503	Brajabuli sahityar adhyayan	In this paper students will learn about the Rise and Development of Brajabuli Literature, characteristics of various Brajabuli Literature.
Paper M-504	Pali-Prakrit sahitya aru byakaran	In this paper students will learn about Rise And Development of Pali-Pakrit Literature.
Paper M-505	Sahitya samalosana	In this paper students will learn about the Western Literature and Assamese Criticism
Paper M-506	Bhasar swarup	In this paper students will learn about the elements of the language and Descriptive Linguistics.
Paper M-601	Adhunik Asomiya natok	It imparts knowledge about trends in Assamese Drama with Special emphasis on Jyotiprasad Agarwala, Prabin Phukoon and Uttam Boruah's Drama.
Paper M-602	Adhunik Asomiya katha-sahitya	It should enable learning about trends in Assamese Prose
Paper M-603	Adhunik Bharatiya sahitya adhyayan	In this paper students will learn about The Modern Indian Literature (Assamese, Bengali and Hindi)
Paper M-604	Asomiya suti galpa aru upanyas	In this paper students will learn about the trends in Assamese Short story and Assamese Novel.

Paper M-605	Sanda-alankar	In this paper students will learn about Metre and Figure of Speech including some particular ones.
Paper M-606	Bhasa bigyan porisoy	It enables students' learning of Linguistics

## DEPARTMENT OF BENGALI

### PROGRAM OUTCOME

1. Students should be familiar with representative literacy and cultural texts within a significant number of historical, political, geographical and cultural contexts.
2. Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
3. Students should be able to identify, analyze, interpret and describe the critical ideas, values and themes that appear in different literary texts.
4. Students should be able to write analytically in variety of formats including descriptive writing, research papers and reflective writing.
5. Students should be able to ethically gather and synthesize information's from a variety of written and electronic sources.
6. Students should be able to synchronies technology with literature.

### COURSE OUTCOME

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
HC-BEN-1016	প্রাগাধুনিক সাহিত্যপাঠ-১	CO-1- বাংলা সাহিত্যের ক্রমবিকাশের পরিচয়লাভ সাহিত্যের শিক্ষার্থীদের কাছে অত্যন্ত গুরুত্বপূর্ণ। CO-2-সেই ক্রমবিকাশের পথেআদি ও মধ্যযুগের সাহিত্য ধারা সম্পর্কে জ্ঞানার্জনের লক্ষ্য পুরণে এই পাঠ্যক্রম তৈরী করা হয়েছে।
HC-BEN-1026	প্রাগাধুনিক সাহিত্যপাঠ-২	CO-1- বাংলা সাহিত্যের ক্রমবিকাশের পরিচয় লাভসাহিত্যের শিক্ষার্থীদের কাছে অত্যন্ত গুরুত্বপূর্ণ। CO-2-এই পরিচয়ের দ্বিতীয় পর্বে চৈতন্যো ত্ত রবৈষ্ণব পদাবলী, অনন্দামঙ্গল কাব্য আর শাক্ত পদের বিষয়জানবে।বাঙালিসমাজ,ধর্ম ও সংস্কৃতির বিবর্তনের গতি রেখা অনুধাবন করতে পারবে এই পাঠ্য ক্রমসম্পূর্ণ করার পর।
AE-BEN-1014	ব্যবহারিক বাংলা	CO-1- সাহিত্যের শিক্ষার্থী হিসেবে সাহিত্য ক্ষেত্রে বাংলা বানান ও বাংলা ব্যকরণের প্রয়োগসম্পর্কে শিক্ষার্থীদের ধারণা অর্জন হবে। CO-2- এই পাঠ্যক্রমের মাধ্যমে বাণিজ্যিক বিজ্ঞাপন, বাণিজ্যিকপত্র, প্রতিবেদন রচনার কৌশলের পাশাপাশি বাণিজ্যিক পরিভাষা এবং প্রবন্ধ রচনার কৌশল সম্পর্কে শিক্ষার্থীরা জ্ঞানার্জন করতে পারবে।
HG/RC-BEN-1016	মধ্যযুগের সাহিত্যপাঠ	CO-1- বাংলা সাহিত্যের ক্রমবিকাশের পরিচয় লাভ সাহিত্যের শিক্ষার্থীদের কাছে অত্যন্ত গুরুত্বপূর্ণ। CO-2- এই পরিচয়ের দ্বিতীয় পর্বে চৈতন্যোত্তর বৈষ্ণব পদাবলী, অনন্দামঙ্গল কাব্য আর শাক্ত পদের বিষয়

		জানবে। বাঙালি সমাজ, ধর্ম ও সংস্কৃতির বিবর্তনের গতি রেখা অনুধাবন করতে পারবে এই পাঠ্যক্রম সম্পূর্ণ করার পর।
HC-BEN-2016	বাংলা ভাষা পরিচয়	CO-1- সাহিত্যের শিক্ষার্থী হিসেবে বাংলা ভাষাতত্ত্ব সম্পর্কে ধারণা অবগত করতে সক্ষম হবে। CO-2- সাহিত্যের শিক্ষার্থী হিসেবে বাংলা ধ্বনিতত্ত্ব সম্পর্কে ধারণা জন্মাবে। CO-3-সাহিত্যের শিক্ষার্থী হিসেবে বাংলা শব্দতত্ত্ব সম্পর্কে পরিচয়ঘটবে।
HC-BEN-2026	বাঙালির সামাজিক ও সংস্কৃতিক পরিচয়	CO-1- বাংলা ভাষা উদ্ভবেরকা লথেকে ওপনিবেশিককাল পর্যন্ত জাতির সামাজিক ও সাংস্কৃতিক বিকাশের গতিরেখার সঙ্গে শিক্ষার্থীদের পরিচয়ঘটানোই এই পাঠ্যক্রমের উদ্দেশ্য। CO-2- বাঙালির ইতিহাস, জনজীবন ও সংস্কৃতি গড়ে উঠার প্রবণতাগুলো সম্পর্কে এখনে জানা যাবে।
HG/RC-BEN-2016	লোকসাহিত্যপাঠ	CO-1- বাঙালি ও তার সংস্কৃতিকে জানতে গেলে লোকসংস্কৃতি ও লোকসাহিত্যের পাঠ গ্রহণ জরুরি। CO-2- বাংলার সমৃদ্ধ লোকঐতিহ্যের থেকে নির্বাচিত কয়েকটি প্রসঙ্গ এখনে পড়ুয়াদের চর্চার জন্য রাখা হয়েছে। CO-3- বাংলার লোকসংস্কৃতি সম্পর্কে এই পাঠ্যক্রম শিক্ষার্থীদের মনে আগ্রহ তৈরি করবে ও ক্ষেত্র ভিত্তিক গবেষণায় উৎসাহিত করবে।
HC-BEN-3016	লোক সংস্কৃতি ও লোকসাহিত্য	CO-1- বাঙালি ও তার সংস্কৃতিকে জানতেগেলে লোক সংস্কৃতি ও লোকসাহিত্যের পাঠ গ্রহণ জরুরি। CO-2- বাংলার সমৃদ্ধলোক-ঐতিহ্যেরথেকে নির্বাচিত কয়েকটি প্রসঙ্গ এখনে পড়ুয়াদের চর্চার জন্য রাখা হয়েছে। CO-3- বাংলার লোকসংস্কৃতি সম্পর্কে এই পাঠ্যক্রম শিক্ষার্থীদের মনে আগ্রহ তৈরি করবে ও ক্ষেত্রভিত্তিক গবেষণায় উৎসাহিত করবে।
HC-BEN-3036	বাংলা সাহিত্যের ইতিহাস (প্রাচীন ও মধ্যযুগ)	CO-1- বাংলা ভাষা ও সাহিত্যের উদ্ভবেরকাল থেকে বিভিন্ন ধারার সঙ্গে শিক্ষার্থীদের পরিচয় ঘটবে এই পাঠ্যক্রমে। CO-2- সাহিত্যেরর সাহাদনের পর এর প্রধান ধারাগুলো সম্বন্ধে একটি স্পষ্ট ধারণাদেবে এই পাঠ্যক্রম।
HG/RC-BEN-3016	উনিশ শতকের সাহিত্যপাঠ	CO-1- ঔপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের চিন্তাচেতনা ও জীবনমান সাহিত্যে যে আধুনিকতার-সঞ্চার করেছিল, তার সঙ্গে শিক্ষার্থীদের এখনে পরিচয় ঘটবে। CO-2- মহাকাব্য, গীতিকাব্য, নক্সা জাতীয় রচনা ও যুক্তিনিষ্ঠ প্রবন্ধ সাহিত্যে কীভাবে এই আধুনিক চিন্তার প্রতিফলন ঘটেছে তা শিক্ষার্থীরা আয়ত্ত করতে পারবে।
SE-BEN-3014	পান্ডুলিপি প্রস্তুতি	CO-1-সাহিত্য ও প্রযুক্তির মেলবন্ধন ঘটিয়েতার ক্রমবিস্তারে কর্মসংস্থানের সম্ভাবনা বৃদ্ধি করার লক্ষ্যে এই পাঠ্যক্রমের পরিকল্পনা করা হয়েছে। CO-2- বাংলা মুদ্রণ ও প্রকাশনা সংক্রান্ত সাধারণ জ্ঞান অর্জন করতে সক্ষম হবে শিক্ষার্থীরা।
CC-BEN-3016	উনিশ ও কুড়ি শতকের বাংলা সাহিত্যপাঠ-১	CO-1- উপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের বাংলা সাহিত্যে যে নবযুগের সঞ্চার হয়েছিল তার বিভিন্ন পর্বকে অনুধাবন করার সুযোগ রয়েছে এই পাঠ্যক্রমে। CO-2- এই শতকের সাহিত্য সম্পর্কে শিক্ষার্থীরা নতুন ধারণা ও জ্ঞান অর্জন করতে পারবে এই নির্বাচিত পাঠ্যক্রমের মাধ্যমে।
HC-BEN-4016	বাংলা সাহিত্যের ইতিহাস (আধুনিক যুগ)	CO-1- বাংলা ভাষা ও সাহিত্যের উদ্ভবের কালথেকে বিভিন্ন ধারার সঙ্গে শিক্ষার্থীদের পরিচয় ঘটবে এই পাঠ্যক্রমে। CO-2- সাহিত্যেরর সাহাদনের পর এর প্রধান ধারাগুলো সম্বন্ধে একটি স্পষ্ট ধারণাদেবে এই পাঠ্যক্রম।

HC-BEN-4026	আধুনিক বাংলা সাহিত্য : সূচনাপর্ব	CO-1- ঔপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের চিন্তা-চেতনা ও জীবন মান সাহিত্যে আধুনিকতার সঞ্চার করেছিল, তার সঙ্গে শিক্ষার্থী দের এখানে পরিচয় ঘটবে। CO-2- মহাকাব্য, গীতিকাব্য, নক্সা জাতীয় রচনা ও যুক্তিনিষ্ঠ প্রবন্ধ সাহিত্যে কীভাবে এই আধুনিক চিন্তার প্রতিফলন ঘটেছে তা শিক্ষার্থীরা আয়ত্ত করতে পারবে।
HC-BEN-4036	রবীন্দ্র সাহিত্য	CO-1- বাংলা সাহিত্যের শিক্ষার্থীদের কাছে রবীন্দ্রনাথ ঠাকুর প্রবাদ প্রতিম ব্যক্তিত্ব। CO-2- এশিয়া মহাদেশে সাহিত্যের প্রথম নোবেল প্রাপক এই কৃতি ব্যক্তিত্বের সৃষ্টি রাজিকে সংক্ষেপে পরিচয় করে নেবার সুযোগ আছে এই পাঠ্যক্রমে। CO-3- মূলত বাংলা ছোটো গল্পের স্রষ্টা, অসংখ্য কবিতার রচয়িতা ও উপন্যাসের রূপকার রবীন্দ্রনাথ এখানে শিক্ষার্থীদের কাছে প্রতিভাত হবেন।
HG/RC-BEN-4016	কুড়ি শতকের সাহিত্য পাঠ	CO-1- উপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের বাংলা সাহিত্যে যে নবযুগের সঞ্চার হয়েছিল তার বিভিন্ন পর্বকে অনুধাবন করার সুযোগ রয়েছে এই পাঠ্যক্রমে। CO-2- এই শতকের তথা পর্বের নাটক, গল্প এবং উপন্যাস সম্পর্কে শিক্ষার্থীরা নতুন ধারণা ও জ্ঞান অর্জন করতে পারবে এই নির্বাচিত পাঠ্যক্রমের মাধ্যমে।
SE-BEN-4014	পূরুফসংশোধন	CO-1- সাহিত্য ও প্রযুক্তির মেলবন্ধন ঘটিয়ে তার ক্রমবিস্তারে কর্মসংস্থানের সম্ভাবনা বৃদ্ধি করার লক্ষ্যে এই পাঠ্যক্রমের পরিকল্পনা করা হয়েছে। CO-2- বাংলা মুদ্রণ ও প্রকাশনা সংক্রান্ত সাধারণ জ্ঞান অর্জন করতে সক্ষম হবে শিক্ষার্থীরা। CO-3- লেখার পাশাপাশি ভুল সংশোধন প্রক্রিয়া সম্বন্ধে জেনে বিভিন্ন প্রকাশন সংস্থায় দক্ষ কর্মী হিসেবে গড়ে তোলার সুযোগ আছে এই পাঠ্যক্রমে।
CC-BEN-4016	উনিশ ও কুড়ি শতকের বাংলা সাহিত্য-২	CO-1- উপনিবেশিক আধুনিকতার সংস্পর্শে এসে আমাদের বাংলা সাহিত্যে নবযুগের সঞ্চার হয়েছিল তার বিভিন্ন পর্বকে অনুধাবন করার সুযোগ রয়েছে এই পাঠ্যক্রমে। CO-2- এই শতকের তথা পর্বের নাটক, গল্প এবং উপন্যাস সম্পর্কে শিক্ষার্থীরা নতুন ধারণা ও জ্ঞান অর্জন করতে পারবে এই নির্বাচিত পাঠ্যক্রমের মাধ্যমে।
HC-BEN-5016	আধুনিক বাংলা সাহিত্য : প্রাকস্বাধীনতাপর্ব	CO-1- আধুনিক বাংলা গীতিকবিতা এবং আধুনিক বাংলা কবিতা পাঠ্যের মাধ্যমে শিক্ষার্থী র স্বাধীনতা পূর্ব আধুনিক বাংলা গীতিকবিতা ও কবিতা সম্পর্কে সম্যক জ্ঞান অর্জন করবে। CO-2- সূচনা ও বিকাশ পর্বের বাংলা প্রবন্ধ এবং উপন্যাস সম্রাট বঙ্কিমচন্দ্রের হাতে সৃষ্ট উপন্যাস পড়ার মাধ্যমে শিক্ষার্থীরা এখানে স্বাধীনতাপূর্ব কালের বাংলা সাহিত্য সম্পর্কে সম্যক জ্ঞান অর্জন করবে।
HC-BEN-5026	আধুনিক বাংলা সাহিত্য : স্বাধীনতান্তরপর্ব	CO-1- আধুনিক সময়ের জটিলতা, ব্যক্তি ও সমষ্টির দ্বন্দ্ব, প্রাচীন ও নবীনদের সংঘাত, নরনারীর প্রেম-সংকট ইত্যাদি সম্পর্কে জ্ঞানার্জনের সুযোগ রয়েছে বর্তমান পাঠ্যক্রমে। CO-2- আধুনিক জীবন যাত্রা রনানা প্রবণতা সম্পর্কে শিক্ষার্থী দের ধারণা গড়ে উঠবে এই পাঠ্যক্রমের মাধ্যমে।
HE-BEN-5016	শিশু ও কিশোর সাহিত্য	CO-1- বাংলা শিশু-কিশোর সাহিত্যের সুগভীর ঐতিহ্য রয়েছে। বর্তমান পাঠ্যক্রমে এই বিশেষ সাহিত্য ধারার বৈশিষ্ট্য জানার সুযোগ রয়েছে। CO-2- কয়েকটি নির্বাচিত পাঠ্য অবলম্বন করে শিক্ষার্থীরা বাংলা শিশু সাহিত্যের আঙ্গিক গুলো সম্পর্কে জ্ঞানার্জন করবে। CO-3- এই পাঠ্যক্রমের মাধ্যমে শিক্ষার্থীরা কল্পবিজ্ঞান এবং ফ্যান্টাসি জাতীয় রচনার সঙ্গেও তারা পরিচিত হবে।
HE-BEN-5026	জীবনী সাহিত্য ও স্মৃতিকথা	CO-1- বাংলা সাহিত্যের জন প্রিয় ধারাগুলোর মধ্যে অন্যতম হল জীবনী, আত্মজীবনী ও স্মৃতি কথা। বর্তমান পাঠ্যক্রমে শিক্ষার্থীরা এই ধারা সম্পর্কে একটি সুনির্দিষ্ট ধারণা গড়ে তুলতে পারবে। CO-2- এই পাঠ্যক্রমে শিক্ষার্থীরা ব্যক্তি বিবেকানন্দ ও রবীন্দ্রনাথ ঠাকুরের ব্যক্তি জীবনের একটি বিশেষ পর্বকে জানার সঙ্গে সঙ্গে উপেন্দ্রনাথ রচিত স্মৃতি চিত্রে ভারতের স্বাধীনতা সংগ্রামের এক বিশেষ অধ্যায় সম্পর্কে ও জ্ঞান লাভ করবে।

RG-BEN-5016	কিশোর সাহিত্য	CO-1- বাংলা শিশুকিশোর সাহিত্যের সুগভীর ঐতিহ্য রয়েছে। বর্তমান পাঠ্যক্রমে এই বিশেষ সাহিত্য ধারার - বৈশিষ্ট্য জানার সুযোগ রয়েছে। CO-2- কয়েকটি নির্বাচিত পাঠ অবলম্বন করে শিক্ষার্থীরা বাংলা কিশোরসাহিত্যের আঙ্গিকগুলো সম্পর্কে জ্ঞানার্জন করবে।
RE-BEN-5016	অনুবাদ সাহিত্য	CO-1- ভারতীয় সাহিত্য চর্চা সম্পর্কে জ্ঞানার্জন এই পাঠ্যক্রমের উদ্দেশ্য। CO-2- বাংলা সাহিত্যকে জানার পাশাপাশি সমকালীন ভারতীয় সাহিত্য, বিশেষ করে অসমীয়া, ওড়িয়া এবং হিন্দি সাহিত্যের নির্বাচিত পাঠে এ। সম্পর্কে প্রাথমিক ধারণা গড়ে উঠবে-
SE-BEN-5014	চিত্রনাট্য রচনা ও বাংলা সাহিত্য	CO-1- এই পাঠ্যক্রমটি ও কর্মসংস্থানের দিকে লক্ষ্য রেখে তৈরি করা হয়েছে। CO-2- বাংলা সাহিত্যের সঙ্গে নাটক, চলচ্চিত্র, টি.ভি ধারাবাহিক ইত্যাদির গভীর যোগাযোগ রয়েছে। শিক্ষার্থীরা এই পাঠ্যক্রম সম্পূর্ণ করে এই ক্ষেত্রে নিজেদের দক্ষতা বৃদ্ধিকরতে পারবে এবং পেশাহি সেবে একে গ্রহণ করতে পারবে।
HC-BEN-6016	সাহিত্যের সংজ্ঞা ও সংরূপ	CO-1- সাহিত্যের নানা সংরূপের আঙ্গিক ও প্রকাশ ভঙ্গি সম্পর্কে জ্ঞানার্জনের পাশাপাশি শিক্ষার্থীরা সমালোচনা সাহিত্যের বিবর্তন সম্পর্কে ও অবহিত হতে পারবে। CO-2- শিক্ষার্থীরা সাহিত্যের আঙ্গিক সঙ্ক্ষে ধারণা গঠন করে সমালোচক হিসেবে নিজেদের গড়ে তুলতে সক্ষম হবে।
HC-BEN-6026	পাশ্চাত্য সাহিত্যতত্ত্ব ও সমালোচনা	CO-1- আধুনিক সাহিত্য সমালোচনা ও রচনার বোধ সম্পর্কে প্রাথমিক জ্ঞান অর্জন করতে সক্ষম হবে শিক্ষার্থীরা। CO-2- আধুনিক সাহিত্য সমালোচনা ও রচনার বোধ অসম্পূর্ণ থাকে পাশ্চাত্য সমালোচনা রীতি সম্পর্কে উপযুক্ত জ্ঞান না থাকলে। সে লক্ষ্য পূরণে এই পাঠ্যক্রম পাশ্চাত্য সমালোচনা রীতি ও ধারা সঙ্ক্ষে প্রাথমিক জ্ঞান অর্জনে সক্ষম হবে শিক্ষার্থীরা।
HE-BEN-6016	উত্তর পূর্বের বাংলা সাহিত্য	CO-1- ভারতের উত্তর পূর্বের বাঙালিদের বসবাসের একটি প্রাচীন ইতিহাস রয়েছে। এই পাঠ্যক্রমের মাধ্যমে সেই ইতিহাসের জ্ঞান অর্জনে সক্ষম হবে শিক্ষার্থীরা। CO-2- পরিস্থিতির সঙ্গে খাপ খাইয়ে, উত্তরপূর্বের এত দক্ষলের পরিবেশ তথা মানুষজন, সংস্কৃতি, রাজনীতি ও ভৌগলিক অর্থনীতির একটি বিশেষ পরিসর বাংলা সাহিত্যে গড়ে দিতে কবি, কথা সাহিত্যিক ও নাট্যকারেরা সক্ষম হয়েছেন। শিক্ষার্থীরা নির্বাচিত পাঠ অবলম্বন তাকে জানার সঙ্গে সঙ্গে এই অঞ্চলের সাহিত্য নিয়ে গবেষণার অবকাশকে সমৃদ্ধ করতে পারবে।
HE-BEN-6026	প্রতিবেশী সাহিত্য	CO-1- ভারতীয় সাহিত্যচর্চা সম্পর্কে জ্ঞানার্জন এই পাঠ্যক্রমের উদ্দেশ্য। CO-2- বাংলা সাহিত্যকে জানার পাশাপাশি সমকালীন ভারতীয় সাহিত্য, বিশেষ করে অসমীয়া, ওড়িয়া এবং হিন্দি সাহিত্যের নির্বাচিত পাঠে এ। সম্পর্কে প্রাথমিক ধারণা গড়ে উঠবে। CO-3- প্রতিবেশী সাহিত্য এই পাঠ্যক্রমের মাধ্যমে শিক্ষার্থীদের তুলনামূলক সাহিত্য অধ্যয়নে আগ্রহ তৈরি হবে।
HE-BEN-6036	গবেষণামূলক সন্দর্ভলিখন	CO-1- শিক্ষার্থীদের সাহিত্যিক গবেষণা সম্পর্কে আগ্রহ গড়ে তোলার পাশাপাশি বিভিন্ন বিষয়-ভাবনাকে সুষ্ঠু ও নির্দিষ্ট নিয়মমেনে বিশ্লেষণ করতে সাহায্য করবে। CO-2- আধুনিক বাঙালির চিন্তা-চেতনার বাহক হিসেবে বাংলা সাময়িক পত্রের ভূমিকা সঙ্ক্ষে গভীর অধ্যয়নের পাশাপাশি কথাসাহিত্যের গতি প্রকৃতি নিয়ে নিজস্ব মতামত গড়ে তুলতে সক্ষম হবে।
RG-BEN-6016	পূর্বোত্তরের বাংলা সাহিত্য	CO-1- ভারতের উত্তরপূর্বের বাঙালিদের বসবাসের একটি প্রাচীন ইতিহাস রয়েছে। এই পাঠ্যক্রমের মাধ্যমে সেই ইতিহাসের জ্ঞান অর্জনে সক্ষম হবে শিক্ষার্থীরা। CO-2- পরিস্থিতির সঙ্গে খাপ খাইয়ে, উত্তরপূর্বের এতদঞ্চলের পরিবেশ তথা মানুষজন, সংস্কৃতি, রাজনীতি ও ভৌগলিক অর্থনীতির একটি বিশেষ পরিসর বাংলা সাহিত্যে গড়ে দিতে কবি, কথাসাহিত্যিক ও নাট্যকারেরা সক্ষম হয়েছেন। শিক্ষার্থীরা নির্বাচিত পাঠ অবলম্বনে তাকে জানার সঙ্গে সঙ্গে এই অঞ্চলের সাহিত্য নিয়ে

		গবেষণার অবকাশকে সমৃদ্ধ করতে পারবে।
RE-BEN-6016	কল্পবিজ্ঞান ও ফ্যান্টাসি	CO-1- এই পাঠ্যক্রমের মাধ্যমে শিক্ষার্থীরা কল্পবিজ্ঞান এবং ফ্যান্টাসি জাতীয় রচনার সঙ্গেও তারা পরিচিত হবে। CO-2-এই পাঠ্যক্রমের মাধ্যমে শিক্ষার্থীরা কল্পবিজ্ঞান এবং ফ্যান্টাসি জাতীয় রচনার সৃষ্টিকৌশল ও হাস্যরস সম্পর্কে একনতুন দিগন্ত খুঁজেপেতে সক্ষম হবে।
RE-BEN-6026	গবেষণামূলক সন্দর্ভ লিখন	CO-1- শিক্ষার্থীদের সাহিত্যিক গবেষণা সম্পর্কে আগ্রহ গড়ে তোলার পাশাপাশি বিভিন্ন বিষয়ভাবনাকে সূষ্ঠ ও - নির্দিষ্ট নিয়ম মেনে বিশ্লেষণ করতে সাহায্য করবে। CO-2- আধুনিক বাঙালির চিন্তাচেতনার বাহক হিসেবে বাংলা সাময়িক পত্রের ভূমিকা সম্বন্ধে গভীর অধ্যয়নের - পাশাপাশি কথাসাহিত্যের গতিপ্রকৃতি নিয়ে নিজস্ব মতামত গড়ে তুলতে সক্ষম হবে।
SE-BEN-6014	অনুবাদচর্চা	CO-1- এই পাঠ্যক্রমে রয়েছে কর্মসংস্থান বৃদ্ধির সুযোগ।তুলনামূলক অধ্যয়নবা গবেষণা, বিভিন্ন গুরুত্বপূর্ণ গ্রন্থের অনুবাদ, সরকারি ও বেসরকারি সংস্থায় অনুবাদকের কাজকরার জন্য প্রাথমিক জ্ঞানলাভে রসুযোগ এখানথেকে শিক্ষার্থীরা নিতে পারবে। CO-2-অনুবাদের কর্মশালাগুলো শিক্ষার্থীদের অভিজ্ঞ করে তুলবে।

## DEPARTMENT OF BODO

The Bodo department under graduate course will provide well structured curriculum on humanities with special context to Bodo language, literature, culture and civilization etc. The teaching of various courses in Bodo will help the students to acquire in depth knowledge and understanding of social co –exist and value of human life.

### PROGRAMME OUTCOME:

The under graduate course in Bodo provides well structured curriculum on humanities with special context to Bodo language , literature. Culture, and civilization etc. Completion of undergraduate course in Bodo enables the students to acquire in depth knowledge and understanding of Bodo language, literature, culture and value of human life by teaching the way of social coexist.

### PROGRAMME SPECIFIC OUTCOME:

Bachelor in Bodo with various genres in Bodo literature upholds the students’ competency and empowers them with communicative skills and encourages creative writings in the language and literature. After completion of this course the students can forward to Post Graduate course for higher education as well as for different jobs.

**COURSE OUTCOME (NON-CBCS)**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
PAPER-5.1	Introduction of Culture	Come to know about the various aspects of the culture. Theory, origin and different genre of culture.
PAPER-5.2	Cultural history of Bodos	Come to know about the theory and concept of Bodo culture and different genres of Bodo folk life.
PAPER-5.3	Old Bodo Drama	Come to know about the origin, type and development of Drama in old Bodo literature.
PAPER-5.4	New Bodo drama	Come to know about the background of Bodo drama. To know about the New Bodo dramas.
PAPER-5.5	Bodo non fictional prose	Come to know about the non fictional Bodo prose considering the different dimension of literature.
PAPER-5.6	Bodo fiction	Come to know about theory and concept of Fiction in the context of Bodo literature.
PAPER -6.1	Indian literature	Students can come to know about the Indian literature across the Bodo from early to modern period.
PAPER-6.2	Western literature	Students can gather general idea about the growth and development of western literature in the form of style and theory.
PAPER-6.3	Western literature Novel and Short stories	Come to know about the trend of Novel and short stories in English and other western languages.
PAPER-6.4	Bodo language	Come to know about the different form of Bodo language
PAPER-6.5	Cognate languages of Bodo	Come to know about the sister languages of Bodo like Rava, Tiwa, Garo, Dimasaetc
PAPER -6.6	Dissertation writing	Students can learn about how to write research papers through the various work of field study and project works etc.

**COURSE OUTCOME (CBCS)**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
BOD-HC-1016	History of Bodo literature(early)	Come to know about the contributions of the Christian missionaries and native speakers on the development of Bodo language and literature.
BOD-HC-1026	Literary criticism western	Come to know about the theory and concept of literary criticism and different genres of literature.
BOD-AE-1014	Communicative Bodo	Come to know about the spelling system used in writing in Bodo. To know about practical application of Bodo language in different perspectives.
BOD-HG-1016	Textual analysis on Bodo drama Early period	Come to know about the background of Bodo drama. To know about the early bodo dramas.
BOD-HC-2016	History of Bodo literature Modern period	Come to know about the beginning of modern period of Bodo literature and new trends and development in Bodo literature.
BOD-HC-2026	Literary criticism Eastern	Come to know about theory and concept of Eastern literary criticism and to know about the use of Rasa, Chanda, and Alankara with special reference to Bodo literature.
BOD-HG-2016	Non fictional prose in Bodo	Students can come to know about the changes coming in Bodo non fictional prose from early to modern period.
BOD-HC-3016	Introduction to language and linguistics	Students can gather general idea about language and linguistics and also learn about different levels of linguistics analysis.

BOD-HC-3026	Bodo poetry Early period	Come to know about the trend of old Bodo poetry. About the mystic and romantic poems composed during the period about the poems composed to bring social awareness among the people.
BOD-HC-3036	Introduction to culture	Come to know about the general concept of culture. The relation between folklore and society, about diffusion, acculturation and assimilation of culture
BOD-SE-3014	Translation Studies	Come to know about Theory, Concept and Types of translation. Come to know about different types of translation in Bodo.
BOD-HG-3016	Bodo drama	Students can learn about different types of drama in Bodo literature. About the influence of Assamese and Bangla drama in Bodo literature. Come to know about few selected dramas in Bodo.
BOD-HC-4016	Modern Bodo poetry	Come to know about the trends of modern Bodo poetry. About new symbols and techniques used by the poets.
BOD-HC-4026	Bodo language	Come to know about origin concentration and development of Bodo language. Present status of Bodo language.
BOD-HC-4036	Bodo Culture	Come to know about Bodo society and culture. About cultural elements of the Bodos.
BOD-SE-4014	Manuscript Preparation	Come to know about manuscript preparation and use of Punctuation and symbols. About benefits of editing and taking into MS word & Page Maker.
BOD-HG-4016	Bodo Fiction	Come to Know about Bodo Novels. Come to know about Bodo short stories.

BOD-HC-5016	Manoranjan Lahary	Come to know about life and literary works of Manoranjan Lahary.
BOD-HC-5026	Structure of Boro Language	Come to know about Phonology of Bodo Language. Come to know about the structure of Morphology, Syntax and Vocabulary of Bodo Language.
BOD-HE-5016	Bodo Folk- Literature	Come to know about Bodo Folk- Literature and its sub-division. Come to know about different genres of Bodo Folk- Literature.
BOD-HE-5026	Dialects of Bodo Language	Come to gather a general idea on dialect and dialectology of Bodo Language. About Bodo dialects and its uses in literature.
BOD-HC-6016	Contribution of women writers in Bodo Literature	Come to know about women writings in Bodo. Contribution of women writers in different genres of literature.
BOD-HC-6026	Cognate Languages of the Bodo	Come to know about Bodo group of languages and their common characteristics. Come to know about Phonology, Morphology and Vocabulary of Bodo Group of languages.
BODO-HE-6016	Life writing in Bodo	Come to know about life writing and its types. Come to know about biography and travel works in Bodo.
BODO-HE-6026	Dissertation Writing	Students come to know and to do how to write research papers following the research methodology and field visit, project work report preparation etc.

## **DEPARTMENT OF BOTANY**

### **PROGRAMME OUTCOME:**

PO-1: After completing three years for Bachelors in Science (B.Sc) Program, students would gain a thorough knowledge of plants with the deeper understanding of the scientific issues for day to day application.

PO-2: It prepares the students to understand the impact of development on environment safety and its significance for sustainable ways of development.

PO-3: How the plants are essential to life sustenance and its anatomy, physiology, morphology are the main topics of this programme

### **Programme Specific Outcome-**

PSO-1: Students will mainly understand the importance of plants, their diversity and conservation.

PSO-2: Students will be able to achieve knowledge of pure and applied botany.

PSO-3: They will learn the contribution of botany for the increase and improvement of our supply of medicines, food, fibers and other plant products.

PSO-4: They will be able to apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.

PSO-5: They will be able to identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.

PSO-6: Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PSO-7: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **COURSE OUTCOME (CBCS)**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
BOT-HC-1016	Phycology and Microbiology	CO1 :Students will be able to understand the different forms of microbes and understand algae and its features
BOT-HC-1026	Biomolecules and Cell Biology	CO1:Students will be able to analyse cellular structure and define the different forms of biomolecules that exist in the world.
BOT-HC-2016	Mycology and Phytopathology	CO1:Students will be able to understand the different forms of fungus and understand how pathogens attacks plants and their defense mechanisms
BOT-HC-2026	Archegoniate	CO1:Students will be able to analyse the archegonial structure and various kinds of arcegoniate.
BOT-HC-3016	Morphology and anatomy of angiosperms	CO1: Students will be able to understand the different anatomical features and they help plants to thrive in different conditions.
BOT-HC-3026	Economic Botany	CO1: Students will be able to understand the different economic uses of plants and the mechanism of productions in large quantity.
BOT-HC-3036	Genetics	CO1: Students will be able to understand the classical concept of gene the mendelian genetics and modern concept of genes such as exons, introns, cistrons etc.
BOT-SE-4024	Biofertilizer	CO1:Students will be able to understand about the different kinds of

		biofertilizers and the scientific conditions to produce biofertilizers from biowaste and their uses.
BOT-HC-4016	Molecular Biology	CO 1: to understand about the genetic material in plant. CO 2: to know about the central dogma and their flow from one generation to another generation. CO 3: to know about the replication, transcription and translation process and also post modification. CO 4: to understand about the gene regulation in living system i.e. operon mechanism.
BOT-HC-4026	Plant Ecology and Phytogeography	CO 1: to know about the inter relationship between living world and environment. CO 2: to know about the effect of different abiotic factor in living system. CO 3: to understand about the fundamental aspect of ecosystem
BOT-HC-4036	Plant Systematics	CO 1: Describe general taxonomic rule on plant classification. CO 2: to understand about the process of plant description and identification. CO 3: to know about the process of plant preservation for future
BOT-SE-4024	Floriculture	Students will be able to understand about the different kinds of flowers and the scientific conditions to culture flowers for economic uses.
BOT-HC-5016	Reproductive Biology of Angiosperms	CO 1: Describe the different mode of plant reproduction, pollen and pistil interaction. CO 2: to know about the polyembryony and apomixis. CO 3: Describe the pollination and fertilization process.
BOT-HC-5026	Plant Physiology	CO 1: Describe about the Plant-water relations. CO 2: to know about the plant life process.
BOT-HC-6016	Plant Metabolism	CO 1: Introduction about the different catabolic and anabolic process. CO 2: Understand about the ATP synthesis mechanism.
BOT-HC-6026	Plant Biotechnology	CO 1: Understand about the plant tissue culture. CO 2: Describe about the Biotechnological process for the development of genetically modified plant for high yield. CO 3: Different method of gene transfer in the plant cell.

## DEPARTMENT OF CHEMISTRY

### Programme Outcome (P.O.):

•**Knowledge: Width and depth:** Students acquire theoretical knowledge and understanding of the fundamental concepts, principles and processes in main branches of chemistry, namely, organic chemistry, inorganic chemistry, physical chemistry, analytical chemistry and

biochemistry. Depth in understanding is the outcome of transactional effectiveness and treatment of specialized course contents. Width results from the choice of electives that students are offered.

•**Laboratory Skills: Quantitative, analytical and instrument based:** A much valued learning outcome of this programme is the laboratory skills that students develop during the course. Quantitative techniques gained through hands on methods opens choice of joining the industrial laboratory work force early on. The programme also provides ample training in handling basic chemical laboratory instruments and their use in analytical and biochemical determinations. Undergraduates on completion of this programme can cross branches to join analytical, pharmaceutical, material testing and biochemical labs besides standard chemical laboratories.

•**Communication:** Communication is a highly desirable attribute to possess. Opportunities to enhance students' ability to write methodical, logical and precise reports are inherent to the structure of the programme. Techniques that effectively communicate scientific chemical content to large audiences are acquired through oral and poster presentations and regular laboratory report writing.

•**Capacity Enhancement:** Modern day scientific environment requires students to possess ability to think independently as well as be able to work productively in groups. This requires some degree of balancing. The chemistry honours programme course is designed to take care of this important aspect of student development through effective teaching learning process.

•**Portable Skills:** Besides communication skills, the programme develops a range of portable or transferable skills in students that they can carry with them to their new work environment after completion of chemistry honours programme. These are problem solving, numeracy and mathematical skills- error analysis, units and conversions, information retrieval skills, IT skills and organizational skills. These are valued across work environments.

### Course Outcomes (CBCS):

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
CHE-HC-1016:	INORGANIC CHEMISTRY-I	<ol style="list-style-type: none"><li>1. Students will be able to solve the conceptual questions using the knowledge gained by studying the quantum mechanical model of the atom, quantum numbers, electronic configuration, radial and angular distribution curves, shapes of s, p, and d orbitals, and periodicity in atomic radii, ionic radii, ionization energy and electron affinity of elements.</li><li>2. Students will be able to draw the plausible structures and geometries of molecules using Radius Ratio Rules, VSEPR theory and MO diagrams (homo- &amp; hetero-nuclear diatomic molecules).</li><li>3. Students will be able to understand the concept of lattice energy using Born-Landé and Kapustinskii expression.</li><li>4. Students will be able to rationalize the conductivity of metals,</li></ol>

		<p>semiconductors and insulators based on the Band theory.</p> <ol style="list-style-type: none"> <li>Students will be able to understand the importance and application of chemical bonds, inter-molecular and intramolecular weak chemical forces and their effect on melting points, boiling points, solubility and energetics of dissolution.</li> <li>Students will also have hands on experience of standard solution preparation in different concentration units and learn volumetric estimation through acid-base and redox reactions.</li> </ol>
CHE-HC-1026	PHYSICAL CHEMISTRY-I	<ol style="list-style-type: none"> <li>Students will be able to explain the difference between solid, liquid and gases in terms of intermolecular interactions.</li> <li>Students will be able to have elementary idea about molecular and crystal symmetry.</li> <li>Students will be able to apply the concepts of gas equations, pH and electrolytes while studying other chemistry courses</li> <li>Students will be able to explain buffers and use them in different experiments.</li> </ol>
CHE-HC-2016	ORGANIC CHEMISTRY-I	<ol style="list-style-type: none"> <li>Students will be able to understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt.</li> <li>Students will be able to formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved.</li> <li>Students will be able to learn and identify many organic reaction mechanisms including Free Radical Substitution, Electrophilic Addition and Electrophilic Aromatic Substitution.</li> <li>Students will be able to correlate and describe the stereochemical properties of organic compounds and reactions.</li> </ol>
CHE-HC-2026	PHYSICAL CHEMISTRY II	<ol style="list-style-type: none"> <li>Students will be able to understand the three laws of thermodynamics, concept of State and Path functions, extensive and intensive properties.</li> <li>Students will be able to derive the expressions of <math>\Delta U</math>, <math>\Delta H</math>, <math>\Delta S</math>, <math>\Delta G</math>, <math>\Delta A</math> for ideal gases under different conditions.</li> <li>Students will be able to explain the concept of partial molar properties.</li> <li>Students will be able to derive the expression of equilibrium constants.</li> <li>Students will be able to explain the thermodynamic basis of colligative properties.</li> </ol>

CHE-HC-3016	INORGANIC CHEMISTRY-II	<ol style="list-style-type: none"> <li>1. Students will be able to learn the fundamental principles of metallurgy and will be in a position to ascertain the method of extraction of a particular metal and also understands the importance of recovery of by-products during extraction.</li> <li>2. Students will be able to understand the basic and practical applications in various fields of metals and alloy behaviour and their manufacturing processes. They are further able to understand why alloys are preferred over metal alone.</li> <li>3. Students will be able to apply the thermodynamic concepts like that of Gibbs energy and entropy to the principles of extraction of metals, such as Al, Cu, Zn and Fe; and also understand why specific reducing agents are used for reduction purposes.</li> <li>4. Students will be able to understand the periodicity in atomic and ionic radii, electronegativity, ionization energy, electron affinity of elements of the periodic table.</li> <li>5. Students will be able to understand Oxidation states with reference to elements in unusual and rare oxidation states like carbides and nitrides.</li> <li>6. Students will be able to understand vital role of Sodium, Potassium, Calcium and magnesium in biological systems and the use of caesium in devising photoelectric cells.</li> </ol>
CHE-HC-3026	ORGANIC CHEMISTRY-II	<ol style="list-style-type: none"> <li>1. Students will be able to understand preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups.</li> <li>2. Students will be able to use the synthetic chemistry learnt in this course to do functional group transformations.</li> <li>3. Students will be able to propose plausible mechanisms for any relevant reaction.</li> </ol>
CHE-HC-3036	PHYSICAL CHEMISTRY-III	<ol style="list-style-type: none"> <li>1. The students are expected to learn phase rule and its application in some specific systems.</li> <li>2. They will also learn rate laws of chemical transformation, experimental methods of rate law determination, steady state approximation etc.</li> <li>3. The students will be able to understand different types of surface adsorption processes and basics of catalysis including enzyme catalysis, acid base catalysis and particle size effect on catalysis.</li> </ol>
		<ol style="list-style-type: none"> <li>1. After completion of the course, the students shall be able to explain</li> </ol>

CHE-SE-3034	BASIC ANALYTICAL CHEMISTRY	the basic principles of chemical analysis, design/implement microscale and semimicroexperiments, record, interpret and analyze data following scientific methodology.
CHE-HC-4016	INORGANIC CHEMISTRY-III	<ol style="list-style-type: none"> <li>1. On successful completion, students will be able to name coordination compounds according to IUPAC, explain bonding in this class of compounds, understand their various properties in terms of CFSE and predict reactivity.</li> <li>2. Students will also be able to appreciate the general trends in the properties of transition elements in the periodic table and identify differences among the rows.</li> <li>3. Through the experiments students not only will be able to prepare, estimate or separate metal complexes/compounds but also will be able to design experiments independently which they should be able to apply if and when required.</li> </ol>
CHE-HC-4026	ORGANIC CHEMISTRY-III	<ol style="list-style-type: none"> <li>1. Students will be able to demonstrate the ability to identify and classify different types of N-based derivatives, alkaloids and heterocyclic compounds/explain their structure, mechanism and reactivity and critically examine their synthesis and reaction mechanism.</li> </ol>
CHE-HC-4036	PHYSICAL CHEMISTRY-IV	<ol style="list-style-type: none"> <li>1. In this course the students will learn theories of conductance and electrochemistry.</li> <li>2. Students will also understand some very important topics such as solubility and solubility products, ionic products of water, conductometric titrations etc.</li> <li>3. The students are also expected to understand the various parts of electrochemical cells along with Faraday's Laws of electrolysis. The students will also gain basic theoretical idea of electrical &amp; magnetic properties of atoms and molecules.</li> </ol>
CHE-HC-5016	ORGANIC CHEMISTRY-IV	<ol style="list-style-type: none"> <li>1. Students will be able to explain/describe the important features of nucleic acids, amino acids and enzymes and develop their ability to examine their properties and applications.</li> </ol>
CHE-HC-5026	PHYSICAL CHEMISTRY-V	<ol style="list-style-type: none"> <li>1. After completion of this course the students are expected to understand the application of quantum mechanics in some simple chemical systems such as hydrogen atom or hydrogen like ions.</li> <li>2. The students will also learn chemical bonding in some simple molecular systems.</li> <li>3. They will be able to understand the basics of various kinds of spectroscopic techniques and photochemistry.</li> </ol>

CHE-HE-5026	ANALYTICAL METHODS IN CHEMISTRY	<ol style="list-style-type: none"> <li>1. On successful completion students will be have theoretical understanding about choice of various analytical techniques used for qualitative and quantitative characterization of samples. At the same time through the experiments students will gain hands on experience of the discussed techniques. This will enable students to take judicious decisions while analyzing different samples.</li> </ol>
CHE-HE-5056	POLYMER CHEMISTRY	<ol style="list-style-type: none"> <li>1. After completion of this course the students will learn the definition and classifications of polymers, kinetics of polymerization, molecular weight of polymers, glass transition temperature, and polymer solutions etc.</li> <li>2. They will also learn the brief introduction of preparation, structure and properties of some industrially important and technologically promising polymers.</li> </ol>
CHE-HC-6016	INORGANIC CHEMISTRY- IV	<ol style="list-style-type: none"> <li>1. The students are expected to learn about how ligand substitution and redox reactions take place in coordination complexes. Students will also learn about organometallic compounds, comprehend their bonding, stability, reactivity and uses.</li> <li>2. They will be familiar with the variety of catalysts based on transition metals and their application in industry.</li> <li>3. Students in general will be able to appreciate the use of concepts like solubility product, common ion effect, pH etc. in analysis of ions and how a clever design of reactions, it is possible to identify the components in a mixture.</li> <li>4. With the experiments related to coordination compound synthesis, calculation of <math>\Delta_{oct}</math>, controlling factors etc. will make the students appreciate the concepts of theory in experiments.</li> </ol>
CHE-HC-6026	ORGANIC CHEMISTRY-V	<ol style="list-style-type: none"> <li>1. Students will be able to explain/describe basic principles of different spectroscopic techniques and their importance in chemical/organic analysis.</li> <li>2. Students shall be able to classify/identify/critically examine carbohydrates, polymers and dye materials.</li> </ol>
CHE-HE-6016	GREEN CHEMISTRY	<ol style="list-style-type: none"> <li>1. The students will have a fair idea about the principles of green chemistry, and will make them conversant with applications of green chemistry to organic synthesis.</li> <li>2. Students will be prepared for taking up entry level jobs in the chemical industry. They also will have the option of studying further in the area.</li> </ol>

CHE-HE-6036	INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	<ol style="list-style-type: none"> <li>1. The students are expected to learn the basic foundation of industrial inorganic chemistry. This will be helpful for pursuing further studies of industrial chemistry in future.</li> <li>2. Experiments will help the students to gather the experience of qualitative and quantitative chemical analysis. Students will be capable of doing analysis of the inorganic materials which are used in our daily life.</li> </ol>
CHE-HE-6056	DISSERTATION	<ol style="list-style-type: none"> <li>1. Student will complete a project work and then prepare a report on that.</li> </ol>
CHE-HG-1016	CHEMISTRY-1	<ol style="list-style-type: none"> <li>1. After completion of this course the students will learn the atomic structure through the basic concepts of quantum mechanics.</li> <li>2. They will understand the chemical bonding through VB and MO approaches.</li> <li>3. The students are expected to learn basic ideas used in organic chemistry, stereochemistry, functional groups, alkanes, alkenes, alkynes etc.</li> </ol>
CHE-HG-2016	CHEMISTRY-2	<ol style="list-style-type: none"> <li>1. After completion of this course the students will learn periodic properties in main group elements, transition metals (3d series). They will also learn the crystal field theory in coordination chemistry unit.</li> <li>2. In physical chemistry part, the students are expected to learn kinetic theory of gases, ideal gas and real gases, surface tension, viscosity, basic solid-state chemistry and chemical kinetics.</li> </ol>
CHE-HG-3016	CHEMISTRY-3	<ol style="list-style-type: none"> <li>1. After completion of this course the students will be able to understand the chemical system from thermodynamic points of view.</li> <li>2. They will also learn two very important topics in chemistry- chemical equilibrium and ionic equilibrium. In organic chemistry part, the students are expected to learn various classes of organic molecules- alkyl halides, aryl halides, alcohols, phenols, ethers, aldehydes and ketones.</li> </ol>
CHE-HG-4016	CHEMISTRY-4	<ol style="list-style-type: none"> <li>1. After completion of this course the students learn solutions, phase rule and its application in specific cases, basics of conductance and electrochemistry.</li> <li>2. Students will also learn some important topics of organic and biochemistry- carboxylic acids, amines, amino acids, peptides, proteins and carbohydrates.</li> </ol>

# **DEPARTMENT OF ECONOMICS**

## **PROGRAMME OUTCOME**

The programme will provide well-structured relevant curricula for the students which will prepare the graduates for employment and higher studies. The programme will also provide the students a well-founded education in Economics. The teaching of various courses in Economics will help the students to acquire in-depth knowledge and understanding of the functioning and performance of the Indian and other global economies. Students will be able to develop their understanding of core economic terms, concepts and theories. They will be encouraged to understand the basic economic principles and will also learn about their applications to a wide range of real-world issues. Students will learn how economic activities like production, consumption, distribution etc. are organized by the markets. They will also acquire knowledge about national income, employment, inflation, deflation, business cycle, monetary and fiscal policy and the banking system. Students will acquire analytical and reasoning skill and will be able to predict about possible economic outcomes based on economic theories. Students will be equipped with quantitative analytical skills with the help of which they will be able to collect, tabulate, present and analyze data to support economic decision making.

## **PROGRAMME SPECIFIC OUTCOME (CBCS)**

As the undergraduate CBCS programme is at par in all over the country, students will be immensely benefitted to gather knowledge about the subject equally with the students of other parts of India. This will help them to be prepared for National competitive examinations and students will be able to get equal job opportunities along with job seekers around the country. The programme is such that students can choose any of the subject of their choice, may it be from any stream which is of utmost importance to unlock the potential of students for they will find interest in the subject of their choice that will help them to build the future career. CBCS programme will definitely be beneficial for the ongoing education system to build a strong and self-sufficient future citizen of India if the programme is properly implemented all over the country with sufficient teaching force and improved infrastructure with advanced technology.

## **COURSE OUTCOME (NON-CBCS):**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
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M 501	Elements of Public Finance	Students will learn in this paper about the nature and scope of Public Finance. They will learn about the important elements of public finance viz. Public Revenue, Public Expenditure and Public Debt.
M 502	Basic Statistics (for BA)	Students from the Arts stream learn Basic statistics. They will learn about the measures of Central tendency, Dispersion, Correlation, Regression and Probability.
M 503	Introduction to Environmental Economics	On successful completion of this course students will have an in-depth understanding of the discipline of environmental economics and its key principles. They will be able to understand and analyze the various environmental problems and will also be able to assess the different environmental policies. They will also be introduced to the different global environmental issues.
M 504	International Trade and Policy	The purpose of this course is to provide students with a thorough knowledge of the theories of international trade as well as terms of trade, gains from trade and international trade policy.
M 505	History of Economic Thought- I	This course helps students to learn how the economic thought has evolved over time. It helps students to learn about the economic thought of the early period, the classical period and the socialist thought.
M 506	Development Policy and the Indian Economy	Students will develop ideas of the basic characteristics of the Indian economy. They will understand about poverty, inequality and unemployment. They will also learn about the role of agriculture in economic development and the role of industries in the development process.
M 601	Public Economics	This course will help students to learn about taxation, government budget, fiscal policy and federal finance. The students will also learn about the Finance Commission of India.
M 602	Applies Statistics (for BA)	Students from the Arts stream will demonstrate their ability to apply statistics in Economics. They will learn to apply index numbers, time series analysis, vital statistics and sample survey in Economics.
M 603	Economics of Natural Resources and Sustainable Development	The students will learn about natural resources, economics of renewable and nonrenewable resources and also about development-environment trade off. The course also deals with the policies necessary or the sustainable management of natural resources.
M 604	International Economics	The students will learn about the nature and scope of

		international economics. They will also learn about the determinants of exchange rates and the balance of payments. The course also deals with economic integration and international institutions.
M 605	History of Economic Thought- II	This course teaches the students about famous schools of thought- Marginalist school, Austrian school. The students will also learn about neo-classical economics, welfare economics, Keynesian economics and Indian Economic Thought.
M 606	Planning for Development: India and the Northeast	The students will learn about different aspects of planning. They will also learn about India in the Global Economy. This course will also help the students to understand the economic problems of North- East India.

### COURSE OUTCOME (CBCS)

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
ECO-HC- 1016	Introductory Microeconomics	This course provides the basic foundation for economic analysis. The objective of the course is to make students able to analyse consumer and producer behaviour and decisions in the market. The course helps to understand firm's production processes and decisions thoroughly. The course provides knowledge to solve the basic microeconomic problems.
ECO-HC- 1026	Mathematical Methods for Economics-I	. This course aims at transmitting the body of basic mathematics that enables the study of economic theory at the UG level especially in microeconomic and macroeconomic theory.
ECO-RC/HG-1016	Fundamentals of Microeconomics	This course provides the basic foundation for economic analysis. The objective of the course is to make students able to analyse consumer and producer behaviour and decisions in the market.

ECO-HC-2016	Introductory Macroeconomics	The course provides a vivid introduction of basic macroeconomic concepts of the aggregate economy and discusses the concepts associated with the determination and measurement of macroeconomic variables like savings, investment, GDP, money, inflation and the balance of payments.
ECO-HC-2026	Mathematical Methods for Economics-II	This course aims at transmitting the body of basic mathematics that enables the study of economic theory at the UG level especially in microeconomic and macroeconomic theory.
ECO-RC/HG-2016	Microeconomic Theory	This course provides the basic foundation for economic analysis. The objective of the course is to make students able to analyse consumer and producer behaviour and decisions in the market.
ECO-HC-3016	Intermediate Microeconomics-I	This course provides a sound training in micro economic theory to analyse the behavior of individual agents like consumer, producer and competitive firms.
ECO-HC-3026	Intermediate Macroeconomics-I	This course aims at 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 to provide the students theoretical ideas related to an economy.
ECO-HC-3036	Statistical Methods for Economics	. This course aims at transmitting the body of basic statistics into economic theory. It aims at helping the students to learn about the measures of Central tendency, Dispersion, Correlation, Regression and Probability.
ECO-SE-3014	Data collection and presentation	This course discusses how data can be summarized and analyzed for drawing conclusions by training the students in the use of MS-Excel.
ECO-RC/HG-3016	Fundamentals of macroeconomics	The course provides a vivid introduction of basic macroeconomic concepts of the aggregate economy and discusses the concepts associated with the determination and measurement of macroeconomic variables like savings, investment, GDP, money, inflation and the balance of payments.

ECO-HC-4016	Intermediate Microeconomics-II	This course aims at giving the students a conceptual clarity of the general equilibrium theory, market structure and game theory.
ECO-HC-4026	Intermediate Macroeconomics-II	In this course, the students are introduced to the long run dynamic issues like growth and technical progress and macro foundations of various aggregative concepts.
ECO-HC-4026	Introductory Econometrics	This course provides a comprehensive introduction to basic econometric concepts and techniques like hypothesis testing, simple regression model etc.
ECO-SE-4014	Data collection	This course discusses how data can be summarized and analyzed for drawing conclusions by training the students in the use of MS-Excel.
ECO-RC/HG-4016	Macroeconomic Theory	This course aims at understanding the various theories of determination of National Income.
ECO-HC-5016	Indian Economy-I	This course reviews major trends in economic indicators and policy debate in India in the post independence period and aims at proper understanding of the changes taking place in Indian economy.
ECO-HC-5026	Development Economics-I	The course of development economics has been designed to make the students understand about the basic concepts associated with growth and development and the alternative conceptions of development. It also aims at proper understanding of the measures of poverty & inequality in a democratic set-up.
DSE ECO-HE-5026	Money and Financial Markets	The objective of the course is to expose the students to the theory and functioning of the monetary and financial sectors of the economy along with the understanding of the banking and financial sector reforms introduced in LPG regime.
DSE ECO-HE-5036	Public Finance	The course is a non-technical overview of government finances with special reference to India. As such, it aims at understanding the basic tenants of government finance that would help the students to choose careers in government sector, policy analysis, business and journalism.
DSC Regular ECO-RE-5016	Economic Development and Policy in India-I	This course reviews major trends in economic indicators and policy debate in India in the post independence period and aims at proper understanding of the changes taking place in Indian economy.

ECO-HC-6016	Indian Economy-II	The course aims at examining the sector-specific policies and their impacts in shaping trends in key economic indicators in India. The purpose of the course is to make the students learnt about the changes taking place in Indian economy.
ECO-HC-6026	Development Economics-II	This course aims at the understanding of the basic demographic concepts and their evolution during the process of development in the light of globalization.
DSE ECO-HE-6016	Environmental Economics	The course aims at attaining the objective how economic principles are applied to environmental issues and their management.
DSE ECO-HE-6036	The Economy of Assam	The course gives a thorough understanding of the basic indicators of the economy of Assam and aims at helping the students to understand about the changes taking place in the economy of a Assam in particular and the economy of North East in general.
DSC Regular ECO-RE-6016	Economic Development and Policy in India-II	The course studies the aggregative trends in the Indian economy offered under the post independence period and aims at proper understanding of the changes taking place in Indian economy.

## **DEPARTMENT OF EDUCATION**

### **PROGRAM OUTCOME: HONOURS COURSE-**

1. Students will acquire in- depth knowledge of different aspects of Teaching- Learning process like its theoretical background, methods & techniques of teaching, learning evaluation, statistics in education etc.
2. With regard to skill acquisition, students will learn presentation & lecture delivering skills, interview facing & bio- data developing skills etc.
3. Psychological laboratory practicals will provide the students with hands- on experiences of the psychological basis of learning.

### **REGULAR COURSE-**

1. Students will acquire a comprehensive knowledge of the theories and methods of teaching- learning process & educational statistics.
2. With regard to skill acquisition, students will learn presentation & lecture delivering skills, interview facing & bio- data developing skills etc.

## COURSE OUTCOME

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
1016	Principles of Education	Students will Acquaint with the sound principles of Education
1026	Psychological Foundations of Education and Laboratory practical	Students will understand the application of Psychology in Education
2016	Philosophical Sociological Foundation of Education	Students will understand the implication of Philosophy and Sociology in Education
2026	Development of Education in India-1	Students will recount the concept of Ancient Indian education system and Education of British period
1016	Foundation of Education	Students will understand the importance of Education
2016	Psychology of Adolescents	Students will aware related to the issues and problems of Adolescence period
1016	Foundation of Education	Students will understand the importance of Education
2016	Psychology of Adolescents	Students will aware related to the issues and problems of Adolescence period
3016	Development of Education in India-II	Students will recount the developments of Education in the Post- Independence period
3026	Educational Technology and Teaching methods	Students will knowledge about the innovations of Teaching methods and Technology in the field of Education
3036	Value and Peace Education	Students will understand the role Educational Institution in building a value and peace education based society
4016	Great Educational Thinkers	Students will be inspired by the philosophy and contribution of great educational thinkers
4026	Educational Statistics and Practical	Students will understand the students about the different statistical procedure in Education
4036	Emerging Issues in Education	Students will aware about the emerging issues related to education
3016	Guidance and Counselling	Students will know about the role of guidance and counselling in education
4016	History of education in India	Students will recount the developments of Education in the present situation
3016	Guidance and Counselling	Students will know about the role of guidance and counseling in education
4016	History of education in India	Students will recount the developments of Education in

		the present situation
3014	Public Speaking Skills	Students will be equipped in public speaking
4014	Writing Bio-Data and facing and Interview	Students equipped in Writing Bio-Data and facing and Interview
5016	Measurement and Evaluation in Education and Laboratory Practical	Students will know about the value of measurement and evaluation in education
5026	Guidance and Counseling	Students will know about the role of guidance and counselling in education
5036	Human Rights Education	Students will know about the provisions of human rights in Education
5046	Teacher Education in India	Students will understand the skills of becoming a good teacher
6016	Education and Development	Students will know about the education and its role for the development of the society
6026	Project	Students will Gain practical knowledge of the application of problem solving method
6036	Educational management	Students will know about the application of management theories in Education
6046	Women and Society	Students will know about the development, issues of Women education in the society
5016	Continuing Education	Students will know about the life long education system
5036	Human Rights Education	Students will know about the provisions of human rights in Education
5014	Extension Activities	Students will acquire the skills of discussing and analyzing the social issues
6014	Developing Teaching Skill	Students will acquire the teaching skills
6016	Mental Health and Hygiene	Students will aware of Importance of Mental health and hygiene among the students
6036	Educational management	Students will know about the application of management
5.1	Philosophy of Education	Students will understand the implication of Philosophy in Education
5.2	Educational Thinkers	Students will be inspired by philosophy and contribution of great educational thinkers

5.3	Teacher Education	Students will understand the skills of become a good teacher
5.4	Teaching- Learning and Pedagogy	Students will develop an understanding of the various methods and devices of teaching
5.5	Statistics in Education	Students will know about the different statistical procedure in Education
6.1	Developmental psychology	Students will develop an understanding of the developmental stages of human being
6.2	Continuing and Distance education	Students will develop an understanding of the various methods and devices of Continuing and Distance education
6.3	Special education	Students will understand about the need of special Education
6.4	Guidance and Counselling	Students will understand about the need of Guidance and Counselling
6.5	Educational management	Students will develop an understanding of the various methods and devices of Educational management
6.6	Project	Students will understand about the practical application of problem solving method
5.1	Emerging Issues and Education	Students will aware about the emerging issues related to education
5.2	Educational Measurement and Educational Statistics	Students will know about the value of measurement and evaluation in education
6.1	Educational Technology	Students will knowledge about the innovations of Teaching methods and Technology in the field of Education
6.2	Environmental and Population Education	Students will knowledge about the Environmental and Population Education

# DEPARTMENT OF ENGLISH

## PROGRAMME OUTCOME

### HONOURS -

- Students will get a comprehensive idea of English literature as a whole. They will also be able to judge literary quality of any literary text and to find connections and continuities of the past and present as well as identify disjuncture in these traditions.
- To familiarize the students with the history of English literature, its forms and genres. To identify the salient features of literary texts from a broad range of English and American literary periods. To employ knowledge of literary traditions to produce imaginative writing

### REGULAR -

- They can apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English. They will be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, editorials etc.
- Students will practice a deliberate writing process with emphasis on inquiry, audience, research and revision.
- Students will interpret texts with attention to ambiguity, complexity and aesthetic value.
- Students will participate in critical conversations and prepare, organize, and deliver their work to the public.

## COURSE OUTCOME

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
1016	Indian English Literature	Demonstrates through discussion and writing an understanding of significant cultural and societal issues presented in the paper.
1026	European Classical Literature	Demonstrates critical thinking skills in understanding the breadth and depth of European literature.

2016	Indian Writing in English	<p>It developed familiarity with the issues of politics of language and gender, nationalism and modernity pertaining to pre and post independence India that have been responsible for the emergence of Indian English literature.</p> <p>It helped to understand the place of English writing in India in the larger field of English literature.</p>
2026	British Poetry and Drama	It aimed to familiarize the students with the two major forms in British literature from the 14 <sup>th</sup> to the 17 <sup>th</sup> centuries -poetry and drama, apart from acquainting them with the context that generated such literatures.
3016	History of English literature and forms	The issues of culture, history, gender, race, ethnicity, politics are addressed and negotiated.
3026	American literature	It revealed the culture and history of the united states and also gives the opportunity to get to know American literature.
3036	British poetry and Drama: 17 <sup>th</sup> and 18 <sup>th</sup> c	To understand the theme, structure and style in British poetry and drama.
4016	British literature :the 18 <sup>th</sup> century	The text in the course were representative of the age and to some extent representative of the forms as well. The selected texts gave the students an overview of the age and the writings that the age produced.
4026	British Romantic Literature	This paper included selections from works of major romantic poets which address the issues, enabling students to appreciate the essence of the romantic vision. In addition they read that remarkable oddity, Frankenstein, a novel that also illuminate romanticism from another angle.
4036	British Literature: the 19 <sup>th</sup> Century	The texts chosen exposed the students to the groundbreaking efforts of the poets as well to the works of fiction writers who managed to consolidate and refine upon the achievements of the novelists of the previous era.
5016	British Literature:the 20 <sup>th</sup> century	Students acquainted themselves with the great traditions of British Literature and also examine various literary techniques of 20 <sup>th</sup> c.

5026	Women's Writing	Students came to know the developments, themes and narrative strategies of women writing and also analysed literary text through the perspectives of gender.
6016	Modern European Drama	The selected plays allowed an understanding of the emergence of avant-garde movements and trends and dramatic devices and techniques during the period of modernism which eventually influenced theatrical practices in other nations of the world.
6026	Post-Colonial Literatures	The paper gave the students an opportunity to acquaint themselves with some of the novels, short stories and poems from Post-Colonial literature across the globe, with the text showcasing the many regional, cultural differences and peculiarities, as well as common and shared experiences of the Post-Colonial conditions.

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
ENG-CC-1016	English Language 1	The texts provides themes and topics that are stimulating, insightful and informative. The literary pieces are significant for their moral and literary values. The students gathered comprehensive understanding of the text.
ENG-AE-1014	English Communication	The text helped the students to activate their background knowledge about the topic leading them to understand the text better when they read it. It enabled students to transfer the skills learnt in this course to their study of other courses. It helped students to learn, practice and develop their English language skills.

ENG-HG-1026	Individual and Society	Students learnt whether individuals live in harmony or in conflict with society. Students also noted the ways in which individual-society relationships and their representations change in different historical periods of literature.
BCM-AE-1014	Business Communication	The communication skill manifested in eloquence of speech and presentation skills, empathic listening skills, effective writing or expressiveness of body-language play dominant role in their career success. It also helped the students to know how to sell their ideas and opinions in better way.
ENG-CC-2016	English Language II	The text provides themes and topics that are stimulating, insightful and informative. The literary pieces are significant for their moral and literary values. The students gathered comprehensive understanding of the text.
ENG-HG-2026	Modern Indian Literature	The various Indian languages and literatures added the complexity of what is termed as Modern Indian Literatures. The short stories and poems in the course gave the students a taste of Indian writing from different regions of the country.
ENG-SE-3014	Creative Writing	The course encouraged active class participation and lots of writings. It allowed the students to explore ideas, feelings, experiences and effectively communicate these stimulus using the written word. It tied the students to reading of texts, techniques and rhetorical positions.
ALT-CC-3016	Alternative English-1	It effectively represented the distinctive qualities of a particular genre. It encouraged the students to study the text in their social and cultural contexts.
ENG-HG-3016	Language and Linguistics	The students obtained higher vocabulary gains. The students understood the nature of language in general. The students demonstrated understanding of processes of language change and variation, the role of language in reflecting social identities etc.

ENG-SE-4014	Translation: Principles and Practice	The students learnt history, challenges of translation in multilingual conditions; institutions promoting translations; landmarks of translation in different languages. they also learnt concepts of translation including accuracy; equivalence; adaptation; dialect; style etc.
ALT-CC-4016	Alternative English II	The students understood literary representations and a writer's engagement with the social, cultural and political milieu.
ENG-HG-4016	Language, Literature and Culture	Students got acquainted with speech community, concept of dialect, register and style, bilingualism and multilingualism, language and gender etc.
ENG-SE-5014	Technical Writing	Students learnt the techniques of good writing, of retaining and communicating information with precision and also with specific forms of technical writings such as summaries, instructions, descriptions, formal letters and official emails.
ENG-RG-5016	Contemporary India: Women and Empowerment	It traced the evolution of women empowerment both in terms of policy and discourse in post-colonial, contemporary India and at the same time tried to locate the women's position in earlier times.
ENG-RE-5016	Soft-Skills	The learners understood and were aware about the importance, role and contents through instructions, knowledge acquisition, demonstration and practice.
ENG-SE-6014	Business Communication	It introduced the students to the various kinds of communication as well as to the many features of communication. They participated in diverse group activities focusing on the spoken components.
ENG-RG-6016	Cultural Diversity	Students are engaged with an understanding of cultural text, situations and rich variety of practices through a sampling of texts that represent the widely textured tapestry emanating from different locale of the world.
ENG-RE-6016	Academic Writing	The students are encouraged with critical thinking, structuring an argument, citing resources etc. the paper helped students in developing academic writing skills by acquainting them by different ways of academic writing and the skills to be acquired to write academic English purposes.

**NON-CBCS COURSE**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
5016	Modern Drama I	Students are acquainted themselves with the European historical and cultural situation in this period to read the prescribed theoretical texts.
5026	Modern Drama II	The students learnt the proliferation of avant-garde theory within the theatre making it self-conscious, and experimental. Discourse on the impact of modern philosophy, ideas and art movements.
5036	The Essay in English: Addison to Dickens	Students acquainted themselves with the development of the form from the time of Francis Bacon and examine the emergence of the periodical essays in the 18 <sup>th</sup> century in the hands of Addison and Steele. The essays are to be studied in relation to the wider political, social, and cultural context while noting the variety of themes.
5046	The Essay in English: The Twentieth Century	The students read the essays against their intellectual and socio cultural background, noting the shift away from the elevated, literary, and classical style of earlier times to a general tendency towards factual and referential writing and a style more direct, immediate and colloquial.
5056	Life Writings: Biographies, Memoirs and Letters	The students hopefully appreciated the literary nature of life writing purportedly telling nothing but the truth, as also note the textual nature of all lives that these lives in a way are remade for each succeeding generation of readers through the act of telling. The paper tried to have that sense of narrativization which informs all the text, which underscores the literary quality of all text by looking at various forms of life writing. The text enabled to deal with issues of representations and constructions, and it is salutary to pay attention to the material context of production and conjunction.

5066	Women's Writing	<p>It examined how women's texts pay attention to the historical and political conditions of their times, to the status and conditions of women and to the ways in which they embody a politics of resistance.</p> <p>It expected students to look at the way a woman writer participates in the questions of selfhood, at women's relations with men and with other women.</p> <p>Students learnt women's use of language, their preference for certain genres and the ways in which they have transformed and made some genres their own.</p>
6016	Literary Criticism	<p>The paper acquainted students with some of the key ideas of Western Literary Criticism from Graeco-Roman antiquity to the modern period and expects them to examine the implications of ideas and orientations that has marked the history of literary criticism.</p>
6026	Twentieth Century Criticism and Theory	<p>The paper introduced students to key ideas and texts that familiarized students with the intellectual shifts in the reading of culture, language and literature in the 20<sup>th</sup> century and the emergence of theory and acquainted them with common concepts and notions that they encountered in the reading of theory.</p>
6036	Nature	<p>It helped to understand and interrogate the representations of nature in literary texts; to examine whether there is a difference between how men and women depict and respond to nature; to ponder over the possibility of characterizing nature writing as a completely new genre; to look at ways through which our understanding of and relationship has changed over the centuries as the human race has achieved varying degrees of 'progress'; and to question the very idea of 'progress' itself and its manifestations in the face of a serious environmental crisis. It will also be an attempt to revisit texts generated at various ages in history with a view to re-appraise the relationship between the human and the natural world as reflected in literature.</p>

6046	Western Mythology: Introducing Classical and Judeo- Christian Myth	Students obtained knowledge of a specific range of myths and mythical characters and their function, and in the second section, we study the presentation of myths in a variety of literary material – in poetry, drama and fiction. They negotiated with the concept of myth, and were introduced to western classical antiquity through a selection of figures, stories and episodes from western mythology in order to make them acquainted with their genealogy and symbolism.
6056	Option D: Linguistics and Sociolinguistics	It acquainted students with the different levels of language organization. While the emphasis was given on the formal organization of the English language, the section on sociolinguistics focused on what happens when language is actually used in society by different sections of people.

## DEPARTMENT OF HINDI

### कार्यक्रम के परिणाम (Programme Outcomes)

#### **Honors/ Regular:**

हिंदी में तीन वर्षीय डिग्री कार्यक्रम सफलतापूर्वक पूरा करने के बाद विद्यार्थियों को शिक्षित, सक्षम और सु-नागरिक के रूप में प्रतिष्ठापित करना ।

PO-1. विद्यार्थियों को हिंदी भाषा के उदभव, विकास तथा विभिन्न रूपों एवं बोलियों से परिचय कराना ।

PO-2. विद्यार्थियों को विभिन्न स्तरों पर अनुसंधान में भाग लेने के लिए प्रोत्साहित करना तथा इस के लिए परियोजना, साक्षात्कार, सर्वेक्षण आदि क्षेत्र में ज्ञान का विकास कराना ।

PO-3. विद्यार्थियों में हिंदी साहित्य के विकासक्रम और लेखन परंपरा के सम्बन्ध में अपना यथोचित दृष्टिकोणों को विकास करना ।

PO-4. विद्यार्थियों को भाषा विज्ञान के माध्यम से हिंदी भाषा के व्यवस्थित और यथोचित प्रयोग का ज्ञान प्राप्त कराना ।

PO-5. विद्यार्थियों में हिंदी भाषा और साहित्य को समझने, अध्ययन, आस्वादन और मूल्यांकन की क्षमता निर्माण हेतु विभिन्न साहित्यिक विधाओं से परिचित कराना ।

PO-7. विद्यार्थियों को नौकरी के लिए तैयार करना और उनकी रोजगार क्षमता में वृद्धि करना।

PO-8. विद्यार्थियों में आलोचनात्मक सोच को बढ़ावा देने के लिए उन्हें सामाजिक गतिविधियों में भाग लेना और उनमें मानवीय मूल्यों के प्रति आस्था निर्माण करना ।

PO-9. विद्यार्थियों को सरकारी कार्यालयों में प्रयुक्त कार्यालयी हिंदी भाषा से परिचय प्राप्त कराना ।

### **कार्यक्रम विशिष्ट परिणाम Programe Specific Outcomes:**

PSO-1. हिंदी भाषा और साहित्य का व्यवस्थित और यथोचित ज्ञान ।

PSO-2. भावात्मक और सौन्दर्यात्मक का विकास ।

PSO-3. सूत्र संचालन, पटकथा लेखन, संवाद लेखन, विज्ञापन लेखन प्रकाशक, संपादक, संवाददाता, दुभाषिया, अनुवादक, प्रूफ शोधक सम्बन्धी ज्ञान ।

PSO-4. शिक्षक, अन्य सरकारी नौकरी की परीक्षा देने में सक्षम ।

PSO-5. राष्ट्रीय एकात्मकता, समानता, बंधुता, उत्तरदायित्व और वैज्ञानिक विकास ।

PSO-6. नैतिक, राष्ट्रीय, सामाजिक मूल्यों का संवधन का ज्ञान ।

PSO-7. हिंदी साहित्य के विभिन्न पहलुओं को समझने की प्रक्रिया के साथ एक विधि और एक नई विधा एवं दिशा दे रही है।

PSO-8. हिन्दी साहित्य के माध्यम से अधिक बारीकी से समाज बनाने का ज्ञान

PSO-9. अतीत से वर्तमान तक हिंदी की अवधारणा का मूल्यांकन करना ।

### **Course outcome Non-CBCS**

HINDI-M-501	हिंदी का उपन्यास साहित्य	CO-1. विद्यार्थियों को उपन्यास के उदभव और विकास का ज्ञान मिला। CO-2. विद्यार्थियों को हिंदी उपन्यास की विशेषताओं का परिचय प्राप्त हुआ। CO-3. विद्यार्थियों को हिंदी उपन्यास के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई । CO-4. विद्यार्थियों को में उपन्यास और कहानी के सामान्य अंतर का बोध हुआ।
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HINDI-M-502	हिंदी का कहानी साहित्य	<p>CO-1. विद्यार्थियों को कहानी के उदभव और विकास का ज्ञान मिला।</p> <p>CO-2. विद्यार्थियों को हिंदी कहानी की विशेषताओं का परिचय प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को हिंदी कहानी के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई।</p> <p>CO-4.विद्यार्थियों को में उपन्यास और कहानी के सामान्य अंतर का बोध हुआ।</p>
HINDI-M-503	हिंदी का नाटक साहित्य	<p>CO-1. विद्यार्थियों को नाटक के उदभव और विकास का ज्ञान मिला।</p> <p>CO-2. विद्यार्थियों को हिंदी नाटक की विशेषताओं का परिचय प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को हिंदी नाटक के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई।</p> <p>CO-4.विद्यार्थियों को में नाटक और एकांकी के सामान्य अंतर के साथ अभिनय और रंगमंच का ज्ञान बोध हुआ।</p>
HINDI-M-504	हिंदी का एकांकी साहित्य	<p>CO-1. विद्यार्थियों को एकांकी के उदभव और विकास का ज्ञान मिला।</p> <p>CO-2. विद्यार्थियों को हिंदी एकांकी की विशेषताओं का परिचय प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को हिंदी एकांकी के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई।</p> <p>CO-4.विद्यार्थियों को में नाटक और एकांकी के सामान्य अंतर को साथ अभिनय और रंगमंच का ज्ञान बोध हुआ।</p>
HINDI-M-505	हिंदी का निबंध साहित्य	<p>CO-1. विद्यार्थियों को निबंध के उदभव और विकास का ज्ञान मिला।</p> <p>CO-2. विद्यार्थियों को हिंदी निबंध की विशेषताओं का परिचय प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को हिंदी निबंध के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई।</p>

HINDI-M-506	हिंदी आलोचना एवं प्रमुख आलोचक	CO-1. विद्यार्थियों को आलोचना के उदभव और विकास का ज्ञान मिला । CO-2. विद्यार्थियों को हिंदी आलोचना के प्रकार तथा विशेषताओं का परिचय प्राप्त हुआ । CO-3 विद्यार्थियों को हिंदी के प्रमुख आलोचक और उनकी आलोचना के सिद्धांतों का परिचय प्राप्त हुआ ।
HINDI-M-601	पाश्चात्य काव्यशास्त्र	CO-1. विद्यार्थियों को पाश्चात्य काव्यशास्त्र के उदभव और विकास का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को पाश्चात्य विद्वानों, उनके सिद्धांतों का ज्ञान प्राप्त हुआ । CO-3 विद्यार्थियों को विविध वादों का परिचय प्राप्त हुआ ।
HINDI-M-602	भाषाविज्ञान	CO-1. विद्यार्थियों को भाषा के स्वरूप, परिभाषा और विशेषताओं की जानकारी प्राप्त हुई । CO-2. विद्यार्थियों को भाषा विज्ञान के वैज्ञानिक अध्ययन की दृष्टि निर्माण हुई । CO-3 विद्यार्थियों को हिंदी भाषा की विभिन्न बोलियों का परिचय प्राप्त हुआ ।
HINDI-M-603	हिंदी भाषा एवं देवनागरी लिपि	CO-1. विद्यार्थियों को हिंदी भाषा का उदभव और विकास का ज्ञान मिला तथा असमिया और हिंदी के सामान्य अंतर का परिचय प्राप्त हुआ । CO-2. विद्यार्थियों को हिंदी भाषा एवं उनकी बोलियों का परिचय मिला । CO-3 विद्यार्थियों को देवनागरी लिपि का स्वरूप, उत्पत्ति और विकास का ज्ञान प्राप्त हुआ ।
HINDI-M-604	प्रयोजनमूलक हिंदी एवं अनुवाद	CO-1. विद्यार्थियों को प्रयोजन मूलक हिंदी का अभिप्राय, स्वरूप और महत्व का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को अनुवाद के स्वरूप, प्रकृति एवं महत्त्व का ज्ञान प्राप्त हुआ । CO-3 विद्यार्थियों को अनुवाद करने का कौशल विकसित हुआ ।

HINDI-M-605	प्रादेशिक साहित्य : असमीया	CO-1. विद्यार्थियों को असमिया साहित्य का उदभव और विकास का ज्ञान मिला । CO-2. विद्यार्थियों को असमिया साहित्य के पमुख कवि और उनकी रचनाओं की गभीर जानकारीयाँ मिली । CO-3 विद्यार्थियों को असमियाँ लोक- संस्कृति का ज्ञान प्राप्त हुआ ।
HINDI-M-606	परियोजना कार्य ( Project Work )	CO-1. विद्यार्थियों को शोध-कार्य का स्वरूप, प्रकार और उसके महत्व का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को शोध-कार्य की विधियों का ज्ञान प्राप्त हुआ । CO-3 विद्यार्थियों को शोध करने का कौशल विकसित हुआ ।

### **COURSE OUTCOME (CBCS)**

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
HIN-AE-1014	हिन्दी व्याकरण और सम्प्रेषण	CO-1. विद्यार्थियों को हिन्दी भाषा, हिन्दी व्याकरण और हिन्दी के माध्यम से सम्यक सम्प्रेषण का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को हिन्दी भाषा के उपयोग के सन्दर्भ में उनकी योग्यता में वृद्धि हुआ । CO-3 विद्यार्थियों को हिन्दी की वर्ण-व्यवस्था, व्याकरण, वाक्य-शुद्धि के साथ संक्षेपण, और सम्प्रेषण के प्रयोग कौशल विकसित हुआ ।
HIN-HG-1016	हिन्दी साहित्य का इतिहास	CO-1. विद्यार्थियों को विद्यार्थियों को हिंदी साहित्य के इतिहास के कालखंडों एवं उनके नामकरण का परिचय तथा आदिकाल के सिद्ध साहित्य, नाथ साहित्य, जैन साहित्य, रासो साहित्य से परिचय तथा साहित्यिक ज्ञान प्राप्त हुआ। CO-2. विद्यार्थियों को भक्तिकाल और रीतिकाल आधुनिक काल के आधुनिक और आधुनिकता के तात्पर्य, नामकरण, वर्गीकरण, परिस्थितियाँ एवं प्रवृत्तियों को समझाना। CO-3 विद्यार्थियों को आधुनिक काल के भारतेन्दुयुगीन और द्विवेदीयुगीन काव्य के साथ नाटक, कहानी, उपन्यास तथा गद्य के विविध विधाओं को समझाना।

HIN-RC-1016	हिन्दी साहित्य का इतिहास	<p>CO-1. विद्यार्थियों को विद्यार्थियों को हिंदी साहित्य के इतिहास के कालखंडों एवं उनके नामकरण का परिचय तथा आदिकाल के सिद्ध साहित्य, नाथ साहित्य, जैन साहित्य, रासो साहित्य से परिचय तथा साहित्यिक ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को भक्तिकाल और रीतिकाल आधुनिक काल के आधुनिक और आधुनिकता के तात्पर्य, नामकरण, वर्गीकरण, परिस्थितियाँ एवं प्रवृत्तियों को समझाना।</p> <p>CO-3 विद्यार्थियों को आधुनिक काल के भारतेन्दुयुगीन और द्विवेदीयुगीन काव्य के साथ नाटक, कहानी, उपन्यास तथा गद्य के विविध विधाओं को समझाना।</p>
HIN-HC-1026	हिन्दी साहित्य का इतिहास (आधुनिक काल)	<p>CO-1. विद्यार्थियों को हिंदी साहित्य आधुनिक काल के आधुनिक और आधुनिकता के तात्पर्य, नामकरण, वर्गीकरण, परिस्थितियाँ एवं प्रवृत्तियों को समझाना।</p> <p>CO-2. विद्यार्थियों को आधुनिक काल के भारतेन्दुयुगीन और द्विवेदीयुगीन काव्य के साथ प्रत्येक वाद के प्रवृत्तियों को समझाना।</p> <p>CO-3. खड़ीबोली हिन्दी के विकास का विश्लेषण।</p> <p>CO-4. विद्यार्थियों को नाटक, कहानी, उपन्यास तथा गद्य के विविध विधाओं को समझाना।</p> <p>CO-5. विद्यार्थियों को प्रत्येक काल के प्रख्यात हिन्दी साहित्यकारों को समझाना।</p>
HIN-HC-1016	हिन्दी साहित्य का इतिहास (रीतिकाल तक)	<p>CO-1. विद्यार्थियों को हिंदी साहित्य के इतिहास लेखन की परंपरा का परिचय प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को हिंदी साहित्य के इतिहास के कालखंडों एवं उनके नामकरण का परिचय प्राप्त हुआ।</p> <p>CO-3. विद्यार्थियों को आदिकाल के सिद्ध साहित्य, नाथ साहित्य, जैन साहित्य, रासो साहित्य से परिचय तथा साहित्यिक ज्ञान प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को भक्तिकाल और रीतिकाल के प्रत्येक शाखा के साहित्य से परिचय तथा साहित्यिक विशेषताओं को समझाना।</p> <p>CO-5. विद्यार्थियों को आदिकाल, भक्तिकाल और रीतिकाल के सन्दर्भ में विशेषताओं को तथा उस दौर की सामाजिक, सांस्कृतिक, धार्मिक, रातनीतिक स्थिति को समझाना।</p>

HIN-HC-2016	आदिकाल एवं मध्यकालीन हिन्दी कविता	<p>CO-1. विद्यार्थियों को आदिकालीन मध्यकालीन हिंदी कविताओं के रूपरेखाओं का ज्ञान प्राप्त हुआ  </p> <p>CO-2. विद्यार्थियों को मैथिली, सधुक्कड़ी, अवधी और ब्रज आदि भाषाओं से परिचय प्राप्त हुआ  </p> <p>CO-3. विद्यार्थियों को को संत एवं भक्त कवियों के काव्य, दर्शन, रहस्य और उनके सामाजिक दायित्व-बोध के साथ मानवीय चिन्तन का परिचय प्राप्त हुआ  </p> <p>CO-4. विद्यार्थियों को कवियों के काव्य की भाषा-शिल्प, काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ।</p>
HIN-HC-2026	आधुनिक हिन्दी कविता (छायावाद तक)	<p>CO-1. विद्यार्थियों को आधुनिक हिन्दी काव्य का रूपरेखा और विषयवस्तुओं के ज्ञान प्राप्त हुआ  </p> <p>CO-2. विद्यार्थियों को आधुनिक हिन्दी काव्य के कवियों का स्वदेश-प्रेम, राष्ट्रीय-भावना, आधुनिक जीवन-बोध तथा मानवीय-चिन्तन की अनेक राहों से परिचय प्राप्त हुआ  </p> <p>CO-3. विद्यार्थियों को कवियों के कविता के भाषा-शिल्प, काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को कवियों के कविता में हुए युगीन परिवर्तन की दिशा और दशा का ज्ञान प्राप्त हुआ।</p>
HIN-HG-2016	मध्यकालीन हिन्दी कविता	<p>CO-1. विद्यार्थियों को आदिकालीन मध्यकालीन हिंदी कविताओं के रूपरेखाओं का ज्ञान प्राप्त हुआ  </p> <p>CO-2. विद्यार्थियों को मैथिली, सधुक्कड़ी, अवधी और ब्रज आदि भाषाओं से परिचय प्राप्त हुआ  </p> <p>CO-3. विद्यार्थियों को को संत एवं भक्त कवियों के काव्य, दर्शन, रहस्य और उनके सामाजिक दायित्व-बोध के साथ मानवीय चिन्तन का परिचय प्राप्त हुआ  </p> <p>CO-4. विद्यार्थियों को कवियों के काव्य की भाषा-शिल्प, काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ।</p>

HIN-RC-2016	मध्यकालीन हिन्दी कविता	<p>CO-1. विद्यार्थियों को आदिकालीन मध्यकालीन हिंदी कविताओं के रूपरेखाओं का ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को मैथिली, सधुक्कड़ी, अवधी और ब्रज आदि भाषाओं से परिचय प्राप्त हुआ।</p> <p>CO-3. विद्यार्थियों को को संत एवं भक्त कवियों के काव्य, दर्शन, रहस्य और उनके सामाजिक दायित्व-बोध के साथ मानवीय चिन्तन का परिचय प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को कवियों के काव्य की भाषा-शिल्प, काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ।</p>
HIN-HC-3016	छायावादोत्तर हिंदी कविता	<p>CO-1. विद्यार्थियों को छायावादोत्तर कविताओं के विविध विषयवस्तुओं का ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को छायावादोत्तर कवियों के कविता में प्रतिष्ठापित सामाजिक चिन्तनों से परिचय प्राप्त हुआ।</p> <p>CO-3. विद्यार्थियों को प्रगतिवादी, राष्ट्रीय-सास्कृतिक, प्रयोगवादी और नयी कविता की संवेदनाओं का ज्ञान प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को कवियों के शिल्पगत विशेषताओं का सम्यक जानकारी प्राप्त हुआ।</p> <p>CO-5. विद्यार्थियों को आधुनिक काव्य-यात्रा में कवियों की रचना-दृष्टि और अपने-अपने चिन्तन शिल्प का ज्ञान प्राप्त हुआ।</p>
HIN-HC-3026	भारतीय काव्यशास्त्र	<p>CO-1. विद्यार्थियों को काव्य साहित्य की शास्त्रीय समीक्षा हेतु भारतीय काव्यशास्त्र के मुख्य सिद्धान्तों के स्वरूप का ज्ञान प्राप्त हुआ।</p> <p>CO-2. . विद्यार्थियों को आचार्यों के काव्य-लक्षण, काव्य-हेतु और काव्य-प्रयोजन के मतों का विश्लेषणात्मक चिन्तन का ज्ञान प्राप्त हुआ।</p> <p>CO-3. . विद्यार्थियों को काव्य सम्प्रदायों का स्वरूप और काव्य (साहित्य)में व्यवहार का ज्ञान प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को काव्य (साहित्य) की आलोचना, विश्लेषण, विवेचन करने का ज्ञान हुआ।</p>
HIN-HC-3036	पाश्चात्य काव्यशास्त्र	<p>CO-1. विद्यार्थियों को पाश्चात्य काव्यशास्त्र के उदभव और विकास सम्बंधित ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को पाश्चात्य विद्वानों, उनके सिद्धांतों का ज्ञान प्राप्त हुआ</p> <p>CO-3 विद्यार्थियों को पाश्चात्य विद्वानों के चिन्तन का समीक्षात्मक विचारों से परिचय हुआ।</p> <p>CO-4. विद्यार्थियों विविध वादों का परिचय प्राप्त हुआ</p>

HIN-SE-3014	कार्यालयीन अनुवाद	CO-1. विद्यार्थियों को हिन्दी भाषा के विविध रूपों, हिन्दी-सम्बन्धी विविध संवैधानिक प्रावधानों का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को हिन्दी भाषा के माध्यम से किए जाने वाले विभिन्न पत्राचारों, प्रशासनिक पत्रावली की निष्पादन-प्रक्रियाओं का ज्ञान प्राप्त हुआ । CO-3 विद्यार्थियों को कार्यालयीन प्रयोजनों में विभिन्न यांत्रिक उपकरणों के अनुप्रयोग-सम्बन्धी सम्यक जानकारी प्राप्त हुआ।
HIN-HG-3016	आधुनिक हिन्दी कविता	CO-1. विद्यार्थियों को आधुनिक हिन्दी काव्य का रूपरेखा और विषयवस्तुओं के ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को आधुनिक हिन्दी काव्य के कवियों का स्वदेश-प्रेम, राष्ट्रीय-भावना, आधुनिक जीवन-बोध तथा मानवीय-चिन्तन की अनेक राहों से परिचय प्राप्त हुआ । CO-3. विद्यार्थियों को कवियों के कविता के भाषा-शिल्प,काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ। CO-4. विद्यार्थियों को कवियों के कविता में हुए युगीन परिवर्तन की दिशा और दशा का ज्ञान प्राप्त हुआ।
HIN-RC-3016	आधुनिक हिन्दी कविता	CO-1. विद्यार्थियों को आधुनिक हिन्दी काव्य का रूपरेखा और विषयवस्तुओं के ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को आधुनिक हिन्दी काव्य के कवियों का स्वदेश-प्रेम, राष्ट्रीय-भावना, आधुनिक जीवन-बोध तथा मानवीय-चिन्तन की अनेक राहों से परिचय प्राप्त हुआ । CO-3. विद्यार्थियों को कवियों के कविता के भाषा-शिल्प,काव्य-सौन्दर्य तथा शैली का ज्ञान प्राप्त हुआ। CO-4. विद्यार्थियों को कवियों के कविता में हुए युगीन परिवर्तन की दिशा और दशा का ज्ञान प्राप्त हुआ।
HIN-SE-3014	कार्यालयीन अनुवाद	CO-1. विद्यार्थियों को हिन्दी भाषा के विविध रूपों, हिन्दी-सम्बन्धी विविध संवैधानिक प्रावधानों का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को हिन्दी भाषा के माध्यम से किए जाने वाले विभिन्न पत्राचारों, प्रशासनिक पत्रावली की निष्पादन-प्रक्रियाओं का ज्ञान प्राप्त हुआ । CO-3 विद्यार्थियों को कार्यालयीन प्रयोजनों में विभिन्न यांत्रिक उपकरणों के अनुप्रयोग-सम्बन्धी सम्यक जानकारी प्राप्त हुआ।
HIN-CC-3016	हिन्दी काव्य धारा	CO-1. विद्यार्थियों को असमीया वैष्णव साहित्यकार तथा हिन्दी के प्राचीन साहित्यकार के कविताओं में निहित विविध विषयवस्तुओं का ज्ञान प्राप्त हुआ । CO-2. विद्यार्थियों को हिन्दी साहित्य के आधुनिक कवियों के कविता में प्रतिष्ठापित सामाजिक चिन्तनों से परिचय प्राप्त हुआ । CO-3.विद्यार्थियों को प्रगतिवादी, राष्ट्रीय-सांस्कृतिक, प्रयोगवादी और नयी कविता की संवेदनाओं का ज्ञान प्राप्त हुआ ।

HIN-HC-4016	भाषा विज्ञान और हिंदी भाषा एवं देवनागरी लिपि	<p>CO-1. विद्यार्थियों को भाषा के स्वरूप, परिभाषा और विशेषताओं की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में भाषा विज्ञान के वैज्ञानिक अध्ययन की दृष्टि निर्माण हुई।</p> <p>CO-3 विद्यार्थियों को हिंदी भाषा की विभिन्न बोलियों का परिचय प्राप्त हुआ।</p> <p>CO-4.विद्यार्थियों को देवनागरी लिपि का स्वरूप, उत्पत्ति और विकास का ज्ञान प्राप्त हुआ।</p> <p>CO-5. विद्यार्थियों को भाषा का परिवर्तन, भाषा के शब्द-समूह आदि सम्बंधित ज्ञान प्राप्त हुआ।</p>
HIN-HC-4026	हिंदी कथा साहित्य	<p>CO-1. विद्यार्थियों को हिंदी गद्य के भिन्न विधाओं का परिचय प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को उपन्यास और कहानी के उदभव और विकास का ज्ञान मिला।</p> <p>CO-3 विद्यार्थियों को हिंदी उपन्यास और कहानी की विशेषताओं तथा वर्गीकरण से परिचय प्राप्त हुआ।</p> <p>CO-4.विद्यार्थियों को प्रमुख उपन्यासकारों और कहानीकारों के कृतियों से मानवीय-दृष्टिकोण तथा सामाजिक परिस्थितियों का ज्ञान प्राप्त हुआ।</p>
HIN-HC-4036	हिंदी नाटक एवं एकांकी	<p>CO-1. विद्यार्थियों को नाटक और एकांकी के उदभव और विकास का ज्ञान मिला।</p> <p>CO-2. विद्यार्थियों को हिंदी नाटक एवं एकांकी के स्वरूप, तत्व आदि मानदंडों के आधार पर समीक्षा की क्षमता निर्माण हुई।</p> <p>CO-3 विद्यार्थियों को प्रमुख साहित्यिक कृतियों के भाव और कला पक्ष को देखने की दृष्टि विकसित हुई।</p> <p>CO-4.विद्यार्थियों को रंगमंच की कला-कौशल, अभिनय तथा नाटक लेखन के कला से ज्ञान प्राप्त हुआ।</p>
HIN-SE-4014	अनुवाद विज्ञान	<p>CO-1. विद्यार्थियों को अनुवाद-सम्बन्धी सैद्धांतिक एवं व्यावहारिक का ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को राजभाषा-नीति के अनुपालन में धारा 3 (3) के अन्तर्गत निर्धारित दस्तावेजों के सटीक अनुवाद का सम्यक जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को कार्यालय, तकनीकी, सर्जनात्मक साहित्य आदि विविध क्षेत्र में हिन्दी अनुवाद सम्बन्धी कौशल विकसित हुआ।</p>
HIN-HG-4016	हिन्दी गद्य साहित्य	<p>CO-1. विद्यार्थियों को आधुनिक हिन्दी उपन्यास, कहानी, निबन्ध-जैसी गद्य-विधाओं और विषयवस्तुओं के ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को हिन्दी गद्य से स्वदेश-प्रेम, राष्ट्रीय-भावना, आधुनिक जीवन-बोध तथा मानवीय-चिन्तन की अनेक राहों से परिचय प्राप्त हुआ।</p> <p>CO-3. विद्यार्थियों को साहित्यकारों के भाषा-शिल्प तथा शैली के साथ युगीन परिवर्तन की दिशा और दशा का ज्ञान प्राप्त हुआ।</p>

HIN-RC-4016	हिन्दी गद्य साहित्य	<p>CO-1. विद्यार्थियों को आधुनिक हिन्दी उपन्यास, कहानी, निबन्ध- जैसी गद्य-विधाओं और विषयवस्तुओं के ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को हिन्दी गद्य से स्वदेश-प्रेम, राष्ट्रीय-भावना, आधुनिक जीवन-बोध तथा मानवीय-चिन्तन की अनेक राहों से परिचय प्राप्त हुआ।</p> <p>CO-3. विद्यार्थियों को साहित्यकारों के भाषा-शिल्प तथा शैली के साथ युगीन परिवर्तन की दिशा और दशा का ज्ञान प्राप्त हुआ।</p>
HIN-SE-4014	अनुवाद विज्ञान	<p>CO-1. विद्यार्थियों को अनुवाद-सम्बन्धी सैद्धांतिक एवं व्यावहारिक का ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को राजभाषा-नीति के अनुपालन में धारा 3 (3) के अन्तर्गत निर्धारित दस्तावेजों के सटीक अनुवाद का सम्यक जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को कार्यालय, तकनीकी, सर्जनात्मक साहित्य आदि विविध क्षेत्र में हिन्दी अनुवाद सम्बन्धी कौशल विकसित हुआ।</p>
HIN-CC-4016	हिन्दी कथा साहित्य	<p>CO-1. विद्यार्थियों को हिन्दी कथा साहित्य की झाँकी के रूप में उपन्यास और कहानियों का रसास्वादन तथा उसमें निहित विविध विषयवस्तुओं का ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को हिन्दी साहित्य के आधुनिक कथाकारों के सृष्टि से सम-सामयिक सामाजिक चिन्तनों से परिचय हुआ।</p> <p>CO-3. विद्यार्थियों को उपन्यास और कहानियों में निहित जीवन-बोध तथा संवेदनाओं का ज्ञान प्राप्त हुआ।</p>
HIN-HC-5016	हिन्दी निबन्ध एवं अन्य गद्य विधाएं	<p>CO-1. विद्यार्थियों को हिन्दी निबन्ध, संस्मरण और रेखाचित्र के स्वरूप एवं उद्भव, विकास और विशेषताओं की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में हिन्दी निबन्ध, संस्मरण, रेखाचित्र और गद्य के अन्य विधाओं के इतिहास ज्ञान प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को हिंदी के प्रमुख रचनाकारों के रचनाओं से निबन्ध, संस्मरण, रेखाचित्र और गद्य के अन्य विधाओं की शिल्पगत विशेषताओं का परिचय प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को सामाजिक संस्कार-संस्कृति, परम्परा तथा मानवीय चिन्तन विकास का ज्ञान प्राप्त हुआ।</p>
HIN-HC-5026	प्रयोजनमूलक हिन्दी	<p>CO-1. विद्यार्थियों को हिन्दी भाषा के विविध रूपों और हिन्दी-सम्बन्धी विविध संवैधानिक प्रावधानों की सम्यक जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में कार्यालय, विज्ञान, व्यावसाय, संचार-माध्यम आदि के सन्दर्भ में प्रयुक्त होने वाली हिन्दी के प्रयोजनमूलक स्वरूपों की जानकारी प्राप्त हुई।</p> <p>CO-3 विद्यार्थियों को हिंदी भाषा में अनुवाद की कला से परिचय प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को कार्यालय हिन्दी और इसकी व्यवहारिकता का ज्ञान प्राप्त हुआ।</p>

HIN-HE-5016	लोक-साहित्य-चिन्तन	<p>CO-1. विद्यार्थियों को भारतीय लोक संस्कृति एवं संस्कार, साहित्य के साथ ही अपने प्रदेश के लोक साहित्य, संस्कार, साहित्य के स्वरूप, परिभाषा और विशेषताओं की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में लोक-गीत, नाटक, लोक-कथा आदि की सम्यक् जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों में लोक जीवन की सरसता और प्रयोजनीयता की ओर ज्ञान वर्द्धित हुआ।</p> <p>CO-4. विद्यार्थियों को इसके द्वारा समाज में फेली लोकविश्वास इसकी वैज्ञानिकता और अंधविश्वास से भी परिचय प्राप्त हुआ।</p>
HIN-HE-5026	हिन्दी की राष्ट्रीय-सांस्कृतिक काव्यधारा	<p>CO-1. विद्यार्थियों को समृद्ध राष्ट्रीय-सांस्कृतिक काव्यधारा के कवि और इसके इतिहास का सम्यक ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों में इसके माध्यम से राष्ट्रीय एवं सांस्कृतिक भावना जागता है।</p> <p>CO-3 विद्यार्थियों को राष्ट्रीय-सांस्कृतिक काव्यधारा के कवियों की कविताओं का रूपगत, भाषिक आदि विशेषताओं से परिचय प्राप्त हुआ।</p> <p>CO-4. विद्यार्थियों को राष्ट्रीय-सांस्कृतिक काव्यधारा से देश-प्रेम की भावना ज्ञात होता है।</p>
HIN-SE-5014	रंग आलेख एवं रंगमंच	<p>CO-1. विद्यार्थियों को नाटक एवं रंगमंच-सम्बन्धी विस्तृत ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों को हिन्दी नाट्य-लेखन के इतिहास की सम्यक जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को रंग-आलेख की प्रविधि-सम्बन्धी आवश्यक सूचनाएँ उपलब्ध तथा अभिनय, रंग-कला आदि से अपने आजीविका की पथ का ज्ञान प्राप्त हुआ।</p>
HIN-RE-5016	लोक-साहित्य	<p>CO-1. विद्यार्थियों को भारतीय लोक संस्कृति एवं संस्कार, साहित्य के साथ ही अपने प्रदेश के लोक साहित्य, संस्कार, साहित्य के स्वरूप, परिभाषा और विशेषताओं की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में लोक-गीत, नाटक, लोक-कथा आदि की सम्यक् जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को इसके द्वारा समाज में फेली लोकविश्वास इसकी वैज्ञानिकता और अंधविश्वास से भी परिचय प्राप्त हुआ।</p>
HIN-RE-5026	हिन्दी की राष्ट्रीय काव्यधारा	<p>CO-1. विद्यार्थियों को समृद्ध राष्ट्रीय-सांस्कृतिक काव्यधारा के कवि और इसके इतिहास का सम्यक ज्ञान प्राप्त हुआ।</p> <p>CO-2. विद्यार्थियों में इसके माध्यम से राष्ट्रीय-भावना, देश-प्रेम की भावना एवं सांस्कृतिक भावना जागता है।</p> <p>CO-3 विद्यार्थियों को राष्ट्रीय-सांस्कृतिक काव्यधारा के कवियों की कविताओं का रूपगत, भाषिक आदि विशेषताओं से परिचय प्राप्त हुआ।</p>

HIN-RG-5016	संगीत एवं साहित्य	<p>CO-1. विद्यार्थियों को साहित्य का साथ विद्यमान संगीत के अंतर्सम्बन्ध की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों में हिन्दी साहित्येतिहास के अलग-अलग कालों में रचित साहित्य के साथ विद्यमान संगीत के निकट सम्बन्ध की सम्यक् जानकारी प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को भारतीय संगीत और लोक-वाद्य का भी परिचय प्राप्त हुआ।</p>
HIN-HC-6016	हिन्दी की साहित्यिक पत्रकारिता	<p>CO-1. विद्यार्थियों को साहित्यिक पत्रकारिता से आजीविका की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों को साहित्यिक पत्रकारिता के स्वरूप, महत्त्व, प्रवृत्तियाँ ज्ञान प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को भारतेन्दु-युग से अब तक अनवरत् रूप से प्रवाहित हिंदी की साहित्यिक पत्रकारिता के ज्ञान प्राप्त हुआ है।</p> <p>CO-4.विद्यार्थियों को भारतेन्दु-युग से अब तक के प्रमुख हिन्दी पत्रकारों के दृष्टिकोण का ज्ञान प्राप्त हुआ।</p>
HIN-HC-6026	हिन्दी परियोजनाकार्य	<p>CO-1. विद्यार्थियों को शोध-प्रवृत्ति की ओर उत्सुकता बढ़ाने के साथ-साथ इस क्षेत्र में प्रोत्साहित होना का ज्ञान प्राप्त हुआ है।</p> <p>CO-2. विद्यार्थियों को शोध के क्षेत्र में आवश्यकीय कार्ययोजनाओं से परिचय प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को कम्प्यूटर में टंकन जैसी कार्यों तथा डी.टी.पी. एवं पावर पॉइंट प्रेजेंटेशन की ज्ञान प्राप्त हुआ।</p> <p>CO-4.विद्यार्थियों को शोध-प्रवृत्ति के कार्य-प्रणाली, व्यवस्था तथा दृष्टिकोण का ज्ञान प्राप्त हुआ।</p>
HIN-HE-6016	छायावादी काव्यधारा	<p>CO-1. विद्यार्थियों को हिन्दी साहित्य के छायावादी काव्यधारा के स्वरूप एवं उद्भव, विकास और विशेषताओं की जानकारी प्राप्त हुई।</p> <p>CO-2. विद्यार्थियों को छायावादी काव्यधारा के इतिहास और प्रमुख कवियों के कविताओं से मानवता बोध का ज्ञान प्राप्त हुआ।</p> <p>CO-3 विद्यार्थियों को इस अनोखी काव्यधारा की संवेदना एवं शिल्पगत विशेषताओं के दर्शन का ज्ञान प्राप्त हुआ।</p> <p>CO-4.विद्यार्थियों को छायावादी काव्यधारा से उस समय की साहित्यिक भाषा-शैली तथा अलंकार प्रयोग का ज्ञान प्राप्त हुआ।</p>

HIN-HE-6026	प्रेमचन्द का साहित्य	CO-1. विद्यार्थियों को हिन्दी के प्रख्यात कथाकार मुंशी प्रेमचन्द द्वारा विरचित साहित्य की सामान्य जानकारी प्राप्त हुई। CO-2. विद्यार्थियों को प्रेमचन्द के लोकप्रिय रचनाओं में से चुनी हुई रचनाओं के विशेष अध्ययन के जरिए उनलोगों को इस लोकप्रिय साहित्यकार के संवेदना, सामाजिक चेतना, मानवता-बोध का ज्ञान प्राप्त हुआ। CO-3 विद्यार्थियों को प्रेमचन्द का महत्त्व, भाषा-शैली, शिल्पगत विशेषताएँ, लेखन की विशेषताएँ आदि का परिचय प्राप्त हुआ। CO-4.विद्यार्थियों को सामाजिक संस्कार-संस्कृति, परम्परा तथा मानवीय चिन्तन विकास का ज्ञान प्राप्त हुआ।
HIN-SE-6014	भाषा शिक्षण	CO-1. विद्यार्थियों को हिन्दी भाषा के शब्द-भण्डार सहित व्याकरण सम्बन्धी मूलभूत बातों का ज्ञान प्राप्त हुआ। CO-2. विद्यार्थियों को हिन्दी भाषा के शिक्षण सम्बन्धी कौशल वृद्धि प्राप्त हुआ। CO-3 विद्यार्थियों को कम्प्यूटरीकरण की दृष्टि से देवनागरी लिपि में सुधार की आवश्यकता सहित उसकी तमाम विशेषताओं और असमीया भाषा के सन्दर्भ में हिन्दी के विशिष्ट शब्दों की स्थिति आदि ज्ञान प्राप्त हुआ।
HIN-RE-6016	छायावाद	CO-1. विद्यार्थियों को हिन्दी साहित्य के छायावादी काव्यधारा के स्वरूप एवं उद्भव, विकास और विशेषताओं की जानकारी प्राप्त हुई। CO-2. विद्यार्थियों को छायावादी काव्यधारा के इतिहास और प्रमुख कवियों के कविताओं से मानवता बोध का ज्ञान प्राप्त हुआ। CO-3 विद्यार्थियों को इस अनोखी काव्यधारा की संवेदना एवं शिल्पगत विशेषताओं के दर्शन का ज्ञान प्राप्त हुआ।
HIN-RE-6026	प्रेमचन्द	CO-1. विद्यार्थियों को हिन्दी के प्रख्यात कथाकार मुंशी प्रेमचन्द द्वारा विरचित साहित्य की सामान्य जानकारी प्राप्त हुई। CO-2. विद्यार्थियों को प्रेमचन्द के लोकप्रिय रचनाओं में से चुनी हुई रचनाओं के विशेष अध्ययन के जरिए उनलोगों को इस लोकप्रिय साहित्यकार के संवेदना, सामाजिक चेतना, मानवता-बोध का ज्ञान प्राप्त हुआ। CO-3 विद्यार्थियों को प्रेमचन्द का महत्त्व, भाषा-शैली, शिल्पगत विशेषताएँ, लेखन की विशेषताएँ आदि का परिचय प्राप्त हुआ।
HIN-RG-6016	तुलनात्मक भारतीय साहित्य- असमीया कहानी	CO-1. विद्यार्थियों को महान भारतीय साहित्य के एक अनिवार्य अंश के रूप में चुनिन्दा कहानियों के जरिए समृद्ध असमीया कहानी साहित्य की जानकारी प्राप्त हुई। CO-2. विद्यार्थियों को असमीया कहानियों में निहित विशिष्ट जीवन बोध एवं शिल्पगत की सम्यक् जानकारी प्राप्त हुआ। CO-3 विद्यार्थियों को असमीया समाज-जीवन तथा संस्कृति का भी परिचय प्राप्त हुआ।

# DEPARTMENT OF HISTORY

## PROGRAMME OUTCOME:

### Honours-

PO-1: The programme enables the students to develop the skill of understanding of past events in a scientific way.

PO-2: After the completion of the programme the students will be able to build a better society with the help of historical knowledge.

PO-3: The programme will provide the students with a sense of how interconnected our present is with the past and how learning about the past provides them with the skills to understand the present.

PO-3: The programme will also help the students to develop good research oriented perspective in them.

PO-4: The programme will also give an idea about how historians research, frame an argument and debate details that have significance to understand the past and the present.

### Regular Course-

PO-1: The programme enables the students to develop the skill of understanding of past events in a scientific way.

PO-2: After the completion of the programme the students will be able to build a better society with the help of historical knowledge.

PO-3: The programme will provide the students with a sense of how interconnected our present is with the past and how learning about the past provides them with the skills to understand the present.

## PROGRAMME SPECIFIC OUTCOME:

### Honours-

PSO-1: The students will be able to understand the historical events by establishing its truth.

PSO-2: After completion of this course they gather knowledge about the socio-cultural heritage of India and world as well.

PSO-2: The historical knowledge helps the students to be good citizens and also to be architect of a better society.

PSO-3: The historical knowledge of the past will help the students to learn the skills to understand the present.

PSO-3: The knowledge of history enables the students to understand the cultural heritage of the nation to develop the sense of oneness.

PSO-4: The programme will also help the students to learn the scientific methods of historical research.

PSO-5: Career options for students to engage as educators, archivists and even as a researcher in historic Sites and Museums, Historical Organizations, Cultural Resources Management and Historic Preservation etc.

### Regular Course-

PSO-1: The programme helps the students in knowing the past people, their culture, religions and social systems, and transforms them into responsible citizens to make a better future.

PSO-2: After the completion of the programme the students will be able to build a better society with the help of historical knowledge.

PSO-3: The programme will provide the students with a sense of how interconnected our present is with the past and how learning about the past provides them with the skills to understand the present.

PSO-4: The programme will help to grow national and international understanding among history students.

### Course Outcome

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
HIS-HC 1016	History of India- I	CO-1 The students will be able to explore and effectively use historical tools in reconstructing the remote past of ancient Indian pre and proto history. CO-2 The course will also train the students to analyze the various stages of evolution of human cultures and the belief systems in the proto- history period. CO-3 Students will explore and understand the historical development of Ancient India up to 300 B.C
HIS-HC 1026	Social formations and cultural Patterns of the ancient world	CO-1 To explain the processes and stages of the evolution of the variety of cultural pattern throughout antiquarian periods in History. CO-2 To relate the connections between the various Bronze Age civilizations in the ancient world.

		CO-3 To relate the development of slave and polis societies in ancient Greece.
HIS –RC 1016	History of India (from Earliest Times up to c. 1206)	CO-1: To help the students to understand the emergence of state system in North India in the early period. CO-2: To enable the students to explain the development of imperial state structure and state formation in South India in the early period. CO-3: To help the students to understand the changes and transformations in polity, economy and society in early India and the linkages developed through contacts with the outside world.
HIS-HC 2016	History of India II	CO-1: To help the students to explain the economic and socio-cultural pattern of India from 300 BCE to 300 CE. CO-2: To explain the transitions and stratifications during the ruling houses, empires and the politico administrative nuances of early Indian History from 300 BCE to 300 CE. CO-3: The students will have the knowledge of Religion, philosophy and society of circa 300 BCE- CE 750.
HIS-HC 2026	Social Formation and Cultural Pattern of the Medieval World	CO-1: The students will be able to analyze and explain the historical, socio-political, administrative and economic patterns of the medieval world. CO-2: The students will be able to describe the emergence, growth and decline of various politico administrative and economic patterns and the resultant changes therein. CO-3: Socio-Cultural and religious patterns of Medieval Europe and Islamic world.
HIS-HC 3016	History Of India III (c. 750 -1206)	CO-1 The completion of this paper will enable the students to relate and explain the developments in India in its political and economic fields. CO-2 The course will also enable the students to relate the political development of the period to the social and cultural patterns between c.700 to 1206. CO-3 The students will also be able to analyse India's interaction with another wave of foreign influence and the changes brought in its wake in the period.

HIS-HC 3026	Rise Of The Modern West – I	<p>CO-1 To enable the students to explain the major trends and developments in the Western world between the 14th to the 16th century CE.</p> <p>CO-2 The students will be able to explore and analyse the significant historical shifts and events.</p> <p>CO-3 The students will also understand the resultant effects on the civilizations of Europe in the period.</p>
HIS –HG 3016	History Of India (c. 1757 to 1947)	<p>CO-1 Upon completion of this course, students will be able to understand the major factors that led to the establishment and consolidation of British rule in India.</p> <p>CO-2 The students will also be able to identify the process of growth of resistance against British colonial rule.</p> <p>CO-3 The students will understand the growth of Indian nationalist movement which ultimately led to the end of the British rule in the country.</p>
HIS –SE 3014	Historical Tourism in North East India	<p>CO-1 After completing the course, students will be able to explain Tourism in North East India.</p> <p>CO-2 The students will know the concepts of Historical tourism, cultural tourism and ecological tourism and their importance and significance in respect of North East India. .</p> <p>CO-3 The students will be able to relate to the growing vocation of tourism as an industry and the applicability of historical knowledge for its growth</p>
HIS –HC-4016	Rise of the Modern West II	<p>CO-1 The course helps the students to explain the political and intellectual currents in Europe in the Modern Age.</p> <p>CO-2 The students will also be able to relate the circumstances and causal factors of the intellectual and revolutionary currents of both Europe and America at the beginning of the Modern age.</p> <p>CO-3</p>

		The students will understand the economic and political developments of modern Europe and also the factors responsible for the rise of Industrial Revolution
HIS-HC - 4026	History of India V (c. 1550 - 1605)	CO-1 The course will help the students to analyse the circumstances and historical shifts and foundations of a variety of administrative and political setup in India between c.1550-1605. CO-2 The course will make the students understand to describe the inter relationships between the economy, culture and religious practices of the period. CO-3 At the completion of the course, the students will be able to explain the foundation of the Mughal rule and its consolidation, expansion, integration and rural economy.
HIS-HC-4036	History of India VI (c. 1605 - 1750)	CO-1 After the completion of this course, the students will be able to explain and reconstruct the linkages of the history of India under the Mughal Rule. CO-2 The course will enable the students to relate to the socio economic and religious orientation of the people of Medieval period in India. CO-3 The students will also understand the trade and commerce of the Mughals and the decline of this regime and the initiation of the foreign rule in India.
HIS -HG-4016	Social And Economic History of Assam	CO-1 Upon completion of this course, students will be able to analyse and explain the socio-economic history of Assam. CO-2 The course will help the students to understand the development of caste system, religious beliefs, agriculture and land system, the social organization, trade and commerce, various agricultural regulations and plantation economy of Early and Medieval Assam. CO-3 The course also helps the students to understand the development of modern industries, transport system, education, the emergence of middle class, development of literature and press, and growth of public associations of

		Modern Assam.
HIS-HC-4036	History of India VI (c. 1605 - 1750)	<p><u>CO-1</u> After the completion of this course, the students will be able to explain and reconstruct the linkages of the history of India under the Mughal Rule.</p> <p>CO-2 The course will enable the students to relate to the socio-economic and religious orientation of the people of Medieval period in India.</p> <p>CO-3 The students will also understand the trade and commerce of the Mughals and the decline of this regime and the initiation of the foreign rule in India.</p>
HIS –SE-4014	Oral Culture and Oral History	<p>CO-1 After the completion of the course, the students will be able to explain complex interrelationships of structures or events in the context of broader social and cultural framework of societies through ‘public memory’ and use oral history to preserve oral culture and local history.</p> <p>CO-2 The students will be able to espouse the relevance to the northeastern region of India with its diverse culture and ethnic communities whose history is largely oral.</p> <p>CO-3 The students will be able to use ‘Public memory’ as a tool and a source not only to write public history but also to explore new knowledge in the humanities, social sciences and even in disciplines like architecture, communication studies, gender studies, English, history, philosophy, political science, religion, and sociology.</p>
HIS-HC-5016	History of Modern Europe- I (c. 1780-1939)	<p>CO-1 After the completion of the course, the students will be able to evaluate the historical evolution and political developments that occurred in Europe in the period between 1780 to 1939.</p> <p>CO-2 The students will also be able to critically analyse the evolution of social classes, nation states, evolution of capitalism and nationalist sentiment in Europe. CO-3 The course will also be help the students to relate to the variety of causes that dragged the world into devastating</p>

		wars in the intervening period.
HIS-HC-5026	History of India vii (c. 1780 - 1857)	CO-1 After the completion of the course, the students will be able to relate the circumstances leading to the consolidation of colonial rule over India and their consequences. CO-2 The students will also be able to explain the orientation of the indigenous population and the masses towards resistance to the colonial exploitation. CO-3 The course will also enable the students to analyse popular uprisings among the tribal, peasant and common people against the British policies
HIS –HE-5016	History of Assam up to c. 1228	CO-1 The paper will give a general outline of the history of Assam from the earliest times to the advent of the Ahoms in the 13 <sup>th</sup> century. CO-2 Upon completion, students will be acquainted with major stages of developments in the political, social and cultural history of Assam during the early times upto 1228. CO-3 The course will also help the students to understand the rule of the dynasties namely, Varmana, Salastambha and Pala.
HIS –HE-5026	History Of Assam (c. 1228 – 1826)	CO-1 On completion of the course, students will be able to identify major stages of developments in the political, social and cultural history of Assam during the medieval times. CO-2 The paper will enable the students to explain the history of Assam from the 13 <sup>th</sup> century to the occupation of Assam by the English East India Company in the first quarter of the 19 <sup>th</sup> century.
HIS –RE-5016	History of Assam (From earliest times till 1826 CE)	CO-1 This paper will give a general outline of the history of Assam from the earliest times to the advent of the British. CO-2 On completion of this paper, students will be able to identify major stages of developments in the political history of Assam from the earliest times to the occupation of Assam by the English East India Company in the first quarter of the 19 <sup>th</sup> century.

		<p>CO-3 The course will also help the students to understand the foundation of the Ahom rule and also the of the English rule in Assam.</p>
HIS –RG-6016	History of Europe (c. 1870 – 1939)	<p>CO-1 After completing the course the students will be able to explain the emergence of state system in Europe and the rise of modernity.</p> <p>CO-2 The students will also be able to analyse the revolutionary upheavals of Europe that finally shaped the world.</p>
HIS-HC-6016	History of India-VIII (c. 1857-1950)	<p>CO-1 At the completion of the course, the learners will be able to analyse the course of British colonial exploitation.</p> <p>CO-2 The students will also understand the social mobilizations during the period between c.1857 to 1950 and also the techniques of Indian resistance to British policies.</p> <p>CO-3 The course will also enable the students to explain the circumstances leading to de-colonization and also the initial period of nation building in India.</p>
HIS-HC-6026	History Of Modern Europe II (c. 1780 -1939)	<p>CO-1 After the completion of this course, the students will be able to analyse the historical developments in Europe between c.1780 to 1939.</p> <p>CO-2 The students will also be able to situate the historical development of working class movements, socialist upsurge and the economic forces of the two wars and the other ideological shifts of Europe in the period.</p>
HIS –HE-6016	History Of Assam (c. 1826 – 1947)	<p>CO-1 Upon completion of this course, students will be able to describe the period of British rule in Assam after its annexation by the imperialist forces.</p> <p>CO-2 The students will also be able to situate the development of nationalism in Assam and its role in India’s freedom struggle.</p> <p>CO-3 The course would enable the students to analyse the</p>

		main currents of the political and socio-economic developments in Assam during the colonial period.
HIS –HE-6026	Assam Since Independence	CO-1 After the completion of the course the students will be able to assess the aftermath of Partition and other socio-economic developments in post-independence Assam. CO-2 The course will also help to identify the main currents of political and socio-economic development in Assam after India's independence. CO-3 The course will also help the students to understand the causes and impact of various struggles and movements in contemporary Assam.
HIS –RG-6016	History Of Europe (c. 1870 – 1939)	CO-1 After completing the course the students will be able to explain the major political developments in Europe from 1870 to 1939. CO-2 The students will be able to delineate how the rise of two unified nations of Germany and Italy gave rise of intense imperialist contest the world over. CO-3 The course would also enable the students to analyse the causes and consequences of World War I and the developments leading to World War II.
HIS –HE 6016/ HIS – RE 6016	History Of Assam (c. 1826 – 1947)	CO-1 Upon completion of this course, students will be able to describe the period of British rule in Assam after its annexation by the imperialist forces. CO-2 The students will also be able to situate the development of nationalism in Assam and its role in India's freedom struggle. CO-3 The course would enable the students to analyse the main currents of the political and socio-economic developments in Assam during the colonial period.
HIS –RG-6016	History Of Europe (c. 1870 – 1939)	CO-1 After completing the course the students will be able to explain the major political developments in Europe from

		1870 to 1939. CO-2 The students will be able to delineate how the rise of two unified nations of Germany and Italy gave rise of intense imperialist contest the world over. CO-3 The course would also enable the students to analyse the causes and consequences of World War I and the developments leading to World War II.
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## DEPARTMENT OF MATHS

### Course Outcome

After completion of the B.Sc. honors course in Mathematics, the students have the option to go for their higher studies like M.Sc. in Mathematics and other allied subjects, performing their research in the various field of Mathematical and applied Sciences and can contribute to the development of the nation.

### Programme Outcome:

The completion of the BMATH(H) Programme shall enable a student to:

PO-1: Communicate mathematics effectively by oral, written, computational and graphic means.

PO-2: Create mathematical ideas from basic axioms.

PO-3: Gauge the hypothesis, theories, techniques and proofs provisionally.

PO-4: Utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis.

PO-5: Identify applications of mathematics in other disciplines and in the real world, leading to enhancement of career prospects in a plethora of fields.

PO-6: Appreciate the requirement of lifelong learning through continued education and research

## COURSE OUTCOME

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
MAT-HC-1016	Calculus	<p>CO-1: Learn first and second derivative tests for relative extremum and apply the knowledge in problems in business, economics and life sciences.</p> <p>CO-2: Sketch curves in a plane using its mathematical properties in different coordinate systems.</p> <p>CO-3: Compute area of surfaces of revolution and the volume of solids by integrating over cross-sectional areas</p>
MAT-HC-1026	Algebra	<p>CO-1: Employ De Moivre's theorem in a number of applications to solve numerical problems.</p> <p>CO-2: Learn about equivalent classes and cardinality of a set. Use modular arithmetic and basic properties of congruences.</p> <p>CO-3: Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix.</p>
MAT-HG-1016	Calculus	<p>CO-1: Understand continuity and differentiability in terms of limits.</p> <p>CO-2: Describe asymptotic behavior in terms of limits involving infinity.</p> <p>CO-3: Use derivatives to explore the behavior of a given function, locating and classifying its extrema, and graphing the function. Also, understand the importance of mean value theorems.</p>
MAT-HC-2016	Real Analysis	<p>CO-1: Understand many properties of the real line, including completeness and Archimedean properties.</p> <p>CO-2: Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.</p> <p>CO-3: Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.</p>
MAT-HC-2026	Differential Equations	<p>CO-1: Learn basics of differential equations and mathematical modeling as well as formulate differential equations for various mathematical models.</p> <p>CO-2: Solve first order non-linear differential equations and linear differential equations of higher order using various techniques.</p> <p>CO-3: Apply these techniques to solve and analyze various mathematical models.</p>
MAT-HG-2026	Discrete Mathematics	<p>CO-1: Understand the notion of ordered sets and maps between ordered sets.</p>

		<p>CO-2: Learn about lattices, modular and distributive lattices, sublattices and homomorphisms between lattices.</p> <p>CO-3: Become familiar with Boolean algebra, Boolean homomorphism, Karnaugh diagrams, switching circuits and their applications.</p>
MAT-HC-3016	Theory of real functions	<p>CO-1: Have a rigorous understanding of the concept of limit of a function.</p> <p>CO-2: Learn about continuity and uniform continuity of functions defined on intervals.</p> <p>CO-3: Understand geometrical properties of continuous functions on closed and bounded intervals.</p> <p>CO-4: Learn extensively about the concept of differentiability using limits, leading to a better understanding for applications.</p> <p>CO-5: Know about applications of mean value theorems and Taylor's theorem.</p>
MAT-HC-3026	Group Theory -I	<p>CO-1: Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc.</p> <p>CO-2: Link the fundamental concepts of groups and symmetrical figures.</p> <p>CO-3: Analyze the subgroups of cyclic groups and classify subgroups of cyclic groups.</p> <p>CO-4: Explain the significance of the notion of cosets, normal subgroups and factor groups.</p> <p>CO-5: Learn about Lagrange's theorem and Fermat's Little theorem.</p> <p>CO-6: Know about group homomorphisms and group isomorphisms.</p>
MAT-HC-3036	Analytical Geometry	<p>CO-1: Learn conic sections and transform co-ordinate systems</p> <p>CO-2: Learn polar equation of a conic, tangent, normal and properties</p> <p>CO-3: Have a rigorous understanding of the concept of three-dimensional coordinates systems</p>
MAT-SE-3024	Combinatorics and Graph Theory	<p>CO-1: Learn about the counting principles, permutations and combinations, Pigeonhole principle</p> <p>CO-2: Understand the basics of graph theory and learn about social networks, Eulerian and Hamiltonian graphs, diagram tracing puzzles and Knight's tour problem.</p>

MAT-HG-3016	Differential Equations	CO-1: Learn basics of differential equations and mathematical modelling. CO-2: Solve first order non-linear differential equations and linear differential equations of higher order using various techniques.
MAT-HC-4016	Multivariate Calculus	CO-1: Learn the conceptual variations when advancing in calculus from one variable to multivariable discussion. CO-2: Understand the maximization and minimization of multivariable functions subject to the given constraints CO-3: Learn about inter-relationship amongst the line integral, double and triple integral formulations. CO-4: Familiarize with Green's, Stokes' and Gauss divergence theorems
MAT-HC-4036	Ring Theory	CO-1: Appreciate the significance of unique factorization in rings and integral domains. CO-2: Learn about the fundamental concept of rings, integral domains and fields. CO-3: Know about ring homomorphism and isomorphism theorems of rings. CO-4: Learn about the polynomial rings over commutative rings, integral domains, Euclidean domains, and UFD
MAT-SE-4024	LaTeX and HTML	CO-1: Create and typeset a LaTeX document. CO-2: Typeset a mathematical document using LaTeX. CO-3: Learn about pictures and graphics in LaTeX. CO-4: Create beamer presentations. CO-5: Create web page using HTML.
MAT-HG-4026	Numerical Analysis	CO-1: Learn some numerical methods to find the zeroes of nonlinear functions of a single variable and solution of a system of linear equations, up to a certain given level of precision. CO-2: Know about iterative and non-iterative methods to solve system of linear equations CO-3: Know interpolation techniques to compute the values for a tabulated function at points not in the table. CO-4: Integrate a definite integral that cannot be done analytically CO-5: Find numerical differentiation of functional values CO-6: Solve differential equations that cannot be solved by analytical methods
MAT-HC-5016	Riemann Integration and Metric spaces	CO-1: Learn about some of the classes and properties of Riemann integrable functions, and the applications of the Fundamental theorems of integration. CO-2: Know about improper integrals including, beta and gamma functions.

		<p>CO-3: Learn various natural and abstract formulations of distance on the sets of usual or unusual entities. Become aware one such formulations leading to metric spaces.</p> <p>CO-4: Analyze how a theory advances from a particular frame to a general frame.</p> <p>CO-5: Appreciate the mathematical understanding of various geometrical concepts, viz. Balls or connected sets etc. in an abstract setting.</p> <p>CO-6: Know about Banach fixed point theorem, whose far-reaching consequences have resulted into an independent branch of study in analysis, known as fixed point theory.</p> <p>CO-7: Learn about the two important topological properties, namely connectedness and compactness of metric spaces.</p>
MAT-HC-5026	Linear Algebra	<p>CO-1: Learn about the concept of linear independence of vectors over a field, and the dimension of a vector space.</p> <p>CO-2: Basic concepts of linear transformations, dimension theorem, matrix representation of a linear transformation, and the change of coordinate matrix.</p> <p>CO-3: Compute the characteristic polynomial, eigenvalues, eigenvectors, and eigenspaces, as well as the geometric and the algebraic multiplicities of an eigenvalue and apply the basic diagonalization result.</p> <p>CO-4: Compute inner products and determine orthogonality on vector spaces, including Gram–Schmidt orthogonalization to obtain orthonormal basis.</p> <p>CO-5: Find the adjoint, normal, unitary and orthogonal operators.</p>
MAT-HE-5016	Number Theory	<p>CO-1: Learn about some fascinating discoveries related to the properties of prime numbers, and some of the open problems in number theory, viz., Goldbach conjecture etc.</p> <p>CO-2: Know about number theoretic functions and modular arithmetic.</p> <p>CO-3: Solve linear, quadratic and system of linear congruence equations.</p>
MAT-HE-5046	Linear Programming	<p>CO-1: Learn about the graphical solution of linear programming problem with two variables.</p> <p>CO-2: Learn about the relation between basic feasible solutions and extreme points.</p> <p>CO-3: Understand the theory of the simplex method used to solve linear programming problems.</p> <p>CO-4: Learn about two-phase and big-M methods to deal with</p>

		<p>problems involving artificial variables.</p> <p>CO-5: Learn about the relationships between the primal and dual problems.</p> <p>CO-6: Solve transportation and assignment problems.</p> <p>CO-7: Apply linear programming method to solve two-person zero-sum game problems.</p>
MAT-HC-6016	Complex Analysis	<p>CO-1: Learn the significance of differentiability of complex functions leading to the understanding of Cauchy–Riemann equations.</p> <p>CO-2: Learn some elementary functions and can evaluate the contour integrals.</p> <p>CO-3: Understand the role of Cauchy–Goursat theorem and the Cauchy integral formula.</p> <p>CO-4: Expand some simple functions as their Taylor and Laurent series, classify the nature of singularities, find residues and apply Cauchy Residue theorem to evaluate integrals.</p>
MAT-HC-6026	Partial Differential Equations	<p>CO-1: Formulate, classify and transform first order PDEs into canonical form.</p> <p>CO-2: Learn about method of characteristics and separation of variables to solve first order PDE's.</p> <p>CO-3: Classify and solve second order linear PDEs.</p> <p>CO-4: Learn about Cauchy problem for second order PDE and homogeneous as well as nonhomogeneous wave equations.</p> <p>CO-5: Apply the method of separation of variables for solving second order PDEs.</p>
MAT-HE-6036	Mathematical Modelling/ Project	<p>CO-1: Know about power series solution of a differential equation and learn about Legendre's and Bessel's equations.</p> <p>CO-2: Use of Laplace transform and inverse transform for solving initial value problems.</p> <p>CO-3: Learn about various models such as Monte Carlo simulation models, queuing models, and linear programming models.</p>
MAT-HE-6066	Group Theory II/ Project	<p>CO-1: Learn about auto-morphisms for constructing new groups from the given group.</p> <p>CO-2: Learn about the fact that external direct product applies to data security and electric circuits.</p> <p>CO-3: Understand fundamental theorem of finite abelian groups.</p> <p>CO-4: Be familiar with group actions and conjugacy in <math>S_n</math>.</p> <p>CO-5: Understand Sylow theorems and their applications in checking non-simplicity.</p>

# DEPARTMENT OF PHYSICS

## Program Outcome:

The student graduating with the degree B.Sc. Physics (Honors) should be able to:

1. Understand and realize the fundamental laws of physics.
2. Design and develop appropriate experimental setup required for specific knowledge creation.
3. Apply ICT skills acquired during the programme.
4. Apply the skills of computation towards the mathematical modeling of a problem.
5. Apply the concepts learned during the programme to solve real world physics problems.

Furthermore, the students should have:

1. High professional ethics and appropriate outlook towards contributing to the society.
2. High personality and moral ethics.
3. Appropriate knowledge on intellectual property right.
4. The required skill to work in group environment.
5. Strong analytical skills to construct logical arguments.

## COURSE OUTCOME:

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
PHY-HC-1016	Mathematical Physics-I	<ol style="list-style-type: none"><li>1. Students should be able to understand vector and its applications in various fields.</li><li>2. Students should be able to understand differential equations and its applications.</li><li>3. Students should be able to understand different coordinate systems.</li><li>4. Students should be able to understand the concept of probability and error.</li></ol>
PHY-HC-1026	Mechanics	<ol style="list-style-type: none"><li>1. Students should be able to understand Fundamentals of dynamics and rotational dynamics.</li><li>2. Students should be able to understand properties</li></ol>

		<p>of matter and fluid.</p> <ol style="list-style-type: none"> <li>Students should be able to understand oscillations and Non-linear systems.</li> <li>Students should be able to understand the concept of theory of Relativity.</li> </ol>
PHY-HG-1016	Mechanics	<ol style="list-style-type: none"> <li>Students should be able to understand vector and able to solve differential equations</li> <li>Students should be to understand laws of motion, concept of conservation of energy, momentum, angular momentum and motion under central field</li> <li>Students should be able to Simple harmonic motion, damped oscillations, Hooke's law, elasticity, elastic moduli, poisson ratio.</li> <li>Students should be able to understand relativity, concept of time dilation, Length contraction</li> </ol>
PHY-HC-2016	Electricity and Magnetism	<ol style="list-style-type: none"> <li>Students should be able to understand electric and magnetic fields in matter.</li> <li>Students should be able to understand dielectric and magnetic properties of matter.</li> <li>Students should be able to understand electromagnetic induction.</li> <li>Students should be able to apply Kirchoff's law and network theorems in different circuits.</li> </ol>
PHY-HC-2026	Waves and Optics	<ol style="list-style-type: none"> <li>Students should be able to understand Harmonic oscillations.</li> <li>Students should be able to understand wave motion and its properties.</li> <li>Students should be able to understand Interference and Diffraction phenomena.</li> <li>Students should be able to understand the concept of Holography.</li> </ol>
PHY-HG-2016	Electricity and Magnetism	<ol style="list-style-type: none"> <li>Students should be able to understand vector, curl, gradient, divergence, gauss and stock's theorem</li> <li>Students should be able to understand electric field, electric potential, electric dipole, Polarization, displacement vector.</li> <li>Students should be able to understand Biot-</li> </ol>

		<p>Savart's law, Magnetic vector potential, Ampere's circuital law, and Magnetic properties of materials.</p> <p>4. Students should be able to understand Faraday's and Lenz's law of electromagnetic induction, Energy stored in magnetic field, Displacement current, Maxwell's equations, energy density in electromagnetic field, electromagnetic wave propagation.</p>
PHY-HC-3016	Mathematical Physics II	<p>1. Students should be able to understand the basics of Second order Linear Differential Equations as well as Partial Differential Equations.</p> <p>2. Students should be able to understand Beta and Gamma functions</p> <p>3. Students should be able to understand matrix, its different types and to learn to evaluate it.</p> <p>4. Students should be able to understand Fourier series and to represent a function in terms of Fourier series.</p>
PHY-HC- 3026	Thermal Physics	<p>1. Student should be able to understand the concept of thermodynamics laws</p> <p>2. Student should be able to understand thermodynamic potentials, properties and applications</p> <p>3. Student should be able to understand the Maxwell's relation</p> <p>4. Student should be able to understand the behavior of real and ideal gases, velocity distribution, degree of freedom.</p>
PHY-HC- 3036	Digital Systems & Applications	<p>1. Students should be able to understand the working principle of CRO, integrated circuit and digital logic system</p> <p>2. Students should be able to understand the design and implement combinational</p> <p>3. Students should be able to understand to classify different semiconductor memories, analyze, design and implement sequential logic circuits.</p> <p>4. Students should be able to understand on</p>

		microprocessor system and assembly language.
PHY-SE-3074	Applied Optics	<p>Unit 1. Students should be able to understand Laser, various types of emissions, Einstein's Coefficient, He-Ne and Semiconductor laser.</p> <p>Unit 2: Students should be able to understand holography, different types of holography, application of holography in various fields.</p> <p>Unit 3: Students should be able to understand optical fiber, light propagation through optical fiber, attenuation, Fiber Bragg grating sensors.</p>
PHY-HG-3016	Thermal Physics & Statistical Mechanics	<ol style="list-style-type: none"> <li>1. Students should be able to understand Zeroth, First Law, Second Law and Third Law of Thermodynamics.</li> <li>2. Students should be able to understand Thermodynamic Potential.</li> <li>3. Students should be able to understand kinetic theory of gases and theory of radiations.</li> <li>4. Students should be able to understand the basic concept of Statistical Mechanics.</li> </ol>
PHY-HC-4016	Mathematical Physics III	<ol style="list-style-type: none"> <li>1. Students should be able to solve complex integrals using residue theorem.</li> <li>2. Students should be able to apply Fourier and Laplace transforms in solving differential equations.</li> <li>3. Students should be able to understand d properties of Tensor like Transformation of coordinates.</li> <li>4. Students should be able to understand contra variant and co-variant tensors, indices rules for combining tensors.</li> </ol>
PHY-HC-4026	Elements of Modern Physics	<ol style="list-style-type: none"> <li>1. Students should be able to understand modern development in Physics, Starting from Planck's law.</li> <li>2. Students should be able to understand development of the idea of probability interpretations.</li> <li>3. Students should be able to understand the formulation of Schrodinger equation.</li> <li>4. Students should be able to get preliminary idea of</li> </ol>

		structure of nucleus, radioactivity Fission and Fusion and Laser.
PHY-HC-4036	Analog Systems & Applications	<ol style="list-style-type: none"> <li>1. Students should be able to understand about the physics of semiconductor p-n junction and devices such as rectifier diodes, Zener diode, photodiode, solar cell.</li> <li>2. Students should be able to understand bipolar junction transistors, transistor biasing and stabilization circuits</li> <li>3. Students should be able to understand the concept of feedback in amplifiers and the use of feedback amplifier to the oscillator circuits.</li> <li>4. Students should be able to understand operational amplifiers and their applications.</li> </ol>
PHY-HG-4016	Waves & Optics	<ol style="list-style-type: none"> <li>1. Students should be able to understand Simple harmonic oscillation and superposition principle, importance of classical wave equation in transverse and longitudinal waves</li> <li>2. Students should be able to understand the fluid mechanics like as surface tension, Poiseuille's formula, Fourier's Theorem, musical notes, acoustic aspects of halls and auditoria.</li> <li>3. Students should be able to understand electromagnetic nature of light, interference, Stokes' treatment, application of Newton's ring.</li> <li>4. Students should be able to understand the phenomenon of diffraction, theory of a Zone Plate, grating, resolving power of grating, polarization, transverse nature of light waves</li> </ol>
PHY-SE-4024	Research & Technical Writing	<ol style="list-style-type: none"> <li>1. Students should be able to identify and write different parts of technical reports, write article, thesis.</li> <li>2. Students should be able to give presentation in latex.</li> <li>3. Students should be able to create chart in Microsoft excel, use different format of chart based on need.</li> <li>4. Students should be able to plot data from different sources using Origin plot.</li> </ol>

PHY-HC-5016	Quantum Mechanics & Applications	<ol style="list-style-type: none"> <li>1. Students should be able to understand the principles in quantum mechanics, such as the Schrödinger equation</li> <li>2. Students should be able to understand the wave function, the uncertainty principle, stationary and non-stationary states, time evolution of solutions, as well as the relation between quantum mechanics and linear algebra.</li> <li>3. Students should be able to solve the Schrödinger equation for hydrogen atom.</li> <li>4. Students will have the concepts of angular momentum and spin, as well as the rules for quantization and addition of these, spin-orbit coupling and Zeeman Effect.</li> </ol>
PHY-HC-5026	Solid State Physics	<ol style="list-style-type: none"> <li>1. Students should be able to explain the main features of crystal lattices and phonons.</li> <li>2. Students should be able to understand the elementary lattice dynamics and its influence on the properties of materials.</li> <li>3. Students should be able to describe the main features of the physics of electrons in solids.</li> <li>4. Students should be able to explain the dielectric ferroelectric and magnetic properties of solids and understand the basic concept in superconductivity.</li> </ol>
PHY-HE-5046	Physics of Devices and Instruments	<ol style="list-style-type: none"> <li>1. Students should be able to gain knowledge on advanced electronics devices such as UJT, JFET, MOSFET, CMOS etc.</li> <li>2. Students should be able to understand detailed process of IC fabrication.</li> <li>3. Students should be able to understand Digital Data serial and parallel Communication.</li> <li>4. Students should be able to understand parallel Communication Standards along with the understanding of communication systems.</li> </ol>
PHY-HE-5056	Nuclear and Particle Physics	<ol style="list-style-type: none"> <li>1. Students should be able to will have the understanding of the sub atomic particles and their properties.</li> <li>2. Students should be able to gain knowledge about the different nuclear techniques and their applications in different branches of Physics and societal application.</li> <li>3. Students should be able to develop problem-based skills.</li> <li>4. Students should be able to acquire knowledge that can be applied in the areas of nuclear, medical,</li> </ol>

		archeology, geology and other interdisciplinary fields of Physics and Chemistry.
PHY-HC-6016	Electromagnetic Theory	<ol style="list-style-type: none"> <li>1. Students should be able to understand the concepts of Maxwell's equations, Poynting Theorem and its physical significance.</li> <li>2. Students should be able to understand propagation of electromagnetic (EM) waves in different homogeneous-isotropic medium, boundary condition, evanescent waves.</li> <li>3. Students should be able to understand polarization of electromagnetic wave, polarization by double refraction, use of quarter-wave and half-wave plates</li> <li>4. Students should be able to understand optical rotation, planar optical wave guides, and different types of optical fibers.</li> </ol>
PHY-HC-6026	Statistical Mechanics	<ol style="list-style-type: none"> <li>1. Students should be able to understand Concept of Ensemble, Phase Space, Entropy and Thermodynamic Probability</li> <li>2. Students should be able to understand Blackbody Radiation, Wien's Displacement law, Rayleigh-Jean's Law</li> <li>3. Students should be able to understand Bose Einstein condensation Fermi-Dirac Distribution Law</li> <li>4. Students should be able to understand the techniques of Statistical mechanics to apply in various fields including Astrophysics, Semiconductors, Plasma Physics, Bio-Physics, Chemistry and in many other directions.</li> </ol>
PHY-HE-6016	Communication Electronics	<ol style="list-style-type: none"> <li>1. Students should be able to understand the concepts of electronics in communication</li> <li>2. Students should be able to understand the details of communication techniques based on Analog Modulation</li> <li>3. Students should be able to understand analog and digital Pulse Modulation including PAM, PWM, PPM, ASK, PSK, FSK, overview of communication</li> <li>4. Students should be able to understand the Navigation systems such as GPS and mobile telephony system.</li> </ol>
PHY-HE-6056	Classical Dynamics	<ol style="list-style-type: none"> <li>1. Students should be able to understand Upon completion of this course, students will have the overview of Newton's Laws of Motion</li> <li>2. Students should be able to understand Special Theory of Relativity by 4-vector approach and fluids.</li> </ol>

		<p>3. Students should be able to understand Students will also have the understanding of the Lagrangian and Hamiltonian of a system.</p> <p>4. Students should be able to understand solve the seen or unseen problems/numerical in classical mechanics.</p>
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## **DEPARTMENT OF POLITICAL SCIENCE**

### **PROGRAMME OUTCOME**

The programme of political science will provide well-structured relevant curriculum which will prepare the students for employment and higher studies. This course aims at understanding the various theories and methods of political science which will help the students to acquire in-depth knowledge and understanding of the Indian political system and other global political system. The objective of the course is to expose the Students to encouraged and understand the basic political system and will also learn about their applications. They will also acquire knowledge about the various administrative policies and principles which will help the students how to manage internal and external administrative activities of nation or state.

### **COURSE OUTCOME (NON-CBCS)**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
M 5.1	Western Political Thinkers	Students will learn in this paper about the different thoughts of Plato, Aristotle, Augustine, Machiavelli, Hobbes, Locke, Rousseau and Marx. They will learn about the important elements of Justice, Philosopher King, Ideal State, Religion, Liberty, Sovereignty, General Will etc.
M 5.2	Select Constitutions – I	From this course students will learn about the different elements and structure of the constitution of United Kingdom and American Constitution. They will also learn the concept of constitution and constitutionalism.
M 5.3B	General Sociology - I	The basic aim of this course is to provide the students about the knowledge of different concepts of sociology. It also tries to provide the knowledge of different

		methods to study the sociology and relationship of sociology with other social sciences.
M 5.4A	Contemporary Political Issues	This course tries to provide students about the knowledge of different environmental issues. From this course students will learn about the important political issues like Terrorism, Human Development & Human Security and Gender.
M 5.5B	Political Sociology - I	This course tries to help students to learn about the historical development of Political Sociology. They can also learn about the political culture, political socialization and political mobility.
M 5.6	Human Rights	This course teaches the students about different concepts of human rights and its growth and development. This paper also helps the students to learn the approaches of human rights and role of UNO for protection of human rights.
M 6.1	Indian Political Thinkers	Students will learn in this paper about the different thoughts of Indian thinkers - Manu, Kautilya, Raja Ram Mohan Roy, Jyotirbarao Phule, M. N. Roy, Mahatma Gandhi, Jawaharlal Nehru, B.R. Ambedkar, and J. P. Narayan.
M 6.2	Select Constitutions - II	From this course students will learn about the basic elements and structure of the constitution of Peoples Republic of China and Switzerland. They will also learn the concept of constitution and constitutionalism.
M 6.3B	General Sociology - II	The course introduces the some social concepts like Culture, Social Control, Social Change and Socialization. Students can understand the meaning, development, causes, variability, agencies etc. from this

		course.
M 6.4A	Contemporary Political Ideologies	This course provides the knowledge of some ideologies like Neo-liberalism, Feminism, Religious Fundamentalism and Multi-culturalism. Students will learn about the meaning, nature, forms, concepts, views of these ideologies from this course.
M 6.5B	Political Sociology - II	This course aims to transmitting the knowledge of political elites, Political Change, political development and Bureaucracy.
M 6.6	Human Rights in India	It introduces students in the key concepts on origin and development of Human Rights in India. The students will also learn about the institutional mechanisms for protection of human rights and issues of human rights in India.

### **COURSE OUTCOME (CBCS HONOURS)**

<b>PAPER CODE</b>	<b>NAME OF THE COURSE</b>	<b>COURSE OUTCOME</b>
POL-HC-1016	Understanding Political Theory	In this course students learn about the idea of political theory, its history and approaches and an assessment of its critical and contemporary trends.
POL-HC-1026	Constitutional Government and Democracy in India	Helps to understand the constitutional design of state structures and institutions, the conflicts in constitutional provisions and comprehend the state institutions in relation to extra constitutional environment.

POL-HC-2016	Political Theory –Concepts and Debates	Students are familiarized with the basic normative concepts of political theories. This course encourages critical and reflective analysis and interpretation of social practices through relevant theories
POL-HC-2026	Political process in India	This course helps in understanding the political process of a society. It also helps students to understand the working of the Indian state, paying attention to the contradictory dynamics of modern state power.
POL-HC-3016	Introduction to Comparative Government and Politics	Understand different political aspects prevailing in different countries. Have the capacity to compare and analyses political system operating in different countries.
POL-HC-3026	Perspective on Public Administration	The students will be able to understand an over view of the discipline and how it is different from private administration. The students learn about major contemporary approaches in public administration.
POL-HC-3036	Perspective on International relation and World History	The students are given fundamental clarity about the historical evolution of International Relation. It provides a fairly comprehensive overview of the major political developments and events starting from 20th century.
POL-HC-4016	Political Processes and Institution in Comparative Perspective.	Points out the basic features of govt. of UK, USA, China and Switzerland and also specify definition, nature, scope of politics, different approaches to the study of comparative politics. Deals with different political groups and pressure groups.

POL-HC-4026	Public Policy and Administration in India	Provide an introduction to the interface between public policy and administration in India. It deals with issues of decentralization, financial management, citizen and administration and social welfare from a non-western perspective
POL-HC-4036	Global Politics.	It introduces students in the key debates on the meaning and nature of globalization by addressing its political, social, cultural and technological dimension. The course also offers insights into contemporary global issues such as the proliferation of nuclear weapon, ecological issues, international terrorism and human security.
POL-HC-5016	Classical Political Philosophy	This course familiarizes students with the manner in which the political questions were first posed. This is a basic foundation course for students
POL-HC-5026	Indian Political Thought -1	This course introduces the element of Indian Political Thought. The course as a whole is meant to provide a sense of in the broad streams of Indian thought while encouraging knowledge of individual thinkers.
POL-HC-6016	Modern Political Philosophy	Students will be exposed to the manner in which the questions of politics have been posed in terms that have implications for larger questions of thought and existence.
POL-HC-6026	Indian political thought -11	This course introduces a wide spun of thinkers and themes that defines the modernity of Indian Political Thought.

POL-SEC- 3014	Parliamentary Procedures and Practices	The course help the students to understand the practical approaches to legislatives practices and procedures; the procedures and processes related to drafting a Bill and the passage of the Bill and the basic functioning of Parliament.
POL-SEC -4014	Panchayati Raj in practice	Describes the concept of Panchayati Raj and rural development, discusses about the concept of decentralization of power and people's participation.
POL-DSE-5016	Human Rights	Students will understand the basic concept and issues concerning Human Rights and challenges.
POL-DSE-5046	Select Constitutions	Points out the basic features of govt. of UK, USA, China and Switzerland and also specify definition, nature, scope of politics, different approaches to the study of comparative politics. Deals with different political groups and pressure groups.
POL-DSE-6016	Indian Foreign policy in Globalizing world	Discusses the origin and evolution of Indian foreign policy, determinants of Indian foreign policy, no-alignment in India's foreign policies, continuities and changes in Indian foreign policies.
POL-DSE-6036	Women power and politics	Students will learn about the feminist analysis of socio-cultural and institutional basis of women's oppression and how to overcome it.
POL-HG-1016	Introduction to political theory	Students learn about the idea of political theory, its history and approaches and an assessment of its critical and contemporary trends.

POL-HG-2016	Indian Government and politics	Deals with the Indian administration and cultural, social, political, economic and constitutional environment. Covers a various aspect of union and state administration.
POL- HG- 3016	Comparative Government and politics	Understand different political aspects prevailing in different countries. Have the capacity to compare and analyses political system operating in different countries.
POL -HG- 4016	Introduction to International Relations	The students are given fundamental clarity about the historical evolution. It provides a fairly comprehensive overview of the major political developments and events starting from 20th century.

### **Course Outcome (CBCS Regular)**

POL-RC-1016	Introduction to Political Theory	Students learn about the idea of political theory, its history and approaches and an assessment of its critical and contemporary trends.
POL-RC-2016	Indian Government and Politics	Understand different political aspects prevailing in different countries. Have the capacity to compare and analyses political system operating in different countries.
POL-RC -3016	Comparative Government and Politics	Students learn to compare different Government institutions and organizations prevailing in the country.
POL-SEC-3014	Parliamentary procedures and practices	This course helps students to understand generally accepted rules precedence and practices commonly employed in the governance of deliberative assemblies.

POL -RC -4016	Introduction to International Relations	The students are given fundamental clarity about the historical evolution of International Relations. It provides a fairly comprehensive overview of the major political developments and events starting from 20th century.
POL-SEC -4014	Panchayati Raj in practice	Describes the concept of Panchayati Raj and rural development, discusses about the concept of decentralization of power and people's participation.
POL-SEC-5014	Public Opinion and Survey Research	Introduces the concept of public opinion and methods of survey research.
POL-RE-DSE-5016	Public Administration	Provide an introduction to the interface between public policy and administration in India. It deals with issues of decentralization, financial management, citizen and administration and social welfare from a non-western perspective.
POL-RG-5016	Public Administration	Provide an introduction to the interface between public policy and administration in India. It deals with issues of decentralization, financial management, citizen and administration and social welfare from a non-western perspective.
POL-SEC-6014	Citizens and Rights	Provides an introduction to various rights of citizens.
POL-RE-DSE-6016	Public Administration 2	Provides an introduction to the interface between public policy and administration in India. It deals with issues of decentralization, financial management, citizen and administration and social welfare from a non-western perspective.
POL-RG-6016	Public Administration 2	Provides an introduction to the interface between public policy and administration in India. It deals with issues of decentralization, financial management, citizen and administration and social welfare from a non-western perspective.

# DEPARTMENT OF ZOOLOGY

## COURSE OUTCOME:

This program is one of the most fundamental units of basic sciences studied in under graduate level. The program helps to develop scientific tempers and attitudes, which in term can prove to be beneficial for the society since the scientific developments can make a society or nation to grow at a rapid pace. After studying this program, students will be more equipped to learn and know about the different biological systems, their coordination and control as well as evolution, behavior and biological roles of the animals in the ecosystem. Moreover, they will be able to qualitatively and quantitatively analyze evolutionary parameters using various bioinformatics and computational tools used in modern sciences. Apart from higher studies, after the completion of B.Sc. degree there are various other options available for the science students.

## Program Specific Outcome:

In a general sense, after completion of the B.Sc. honors course in Zoology, the students have the option to go for their higher studies like M.Sc. in Zoology and other allied subjects, performing their research in the various field of life Sciences and can contribute to the development of the nation.

Specifically, after the completion of this course the students will be able to

1. Know the concept of vertebrate and invertebrate with their structural peculiarities.
2. Understand the concept of physiological and biochemical activities that is continuing inside a living system.
3. Know the concept of heredity and the genes, the various nucleic acids and the Proteins.
4. Know the various environmental and anthropogenic factors that harming the Nature and the importance for their conservation.
5. Identify socio-economic animals and their benefits to the mankind.
6. Identify various health hazards including the normal diseases and genetical diseases.

## Course Outcome

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
ZOO-HC-1016	Non-Chordates I: Protists to Pseudocoelomates	The course will enable the students to know 1. About non-chordates specially, Protista, Porifera, Cnidaria, Ctenophora, Platyhelminthes and

		<p>Nemathelminths in details.</p> <p>2. About the identification of the non-chordates by viewing the slides under microscope.</p>
ZOO-HC-1026	Principles of Ecology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. The fundamental concept of ecology with its various factors. They will also able to know the concepts of food chain, web and ecological pyramids through the paper.</li> <li>2. The various kind of population with examples which is ultimately going to form the community.</li> <li>3. The key behind wildlife conservation and management.</li> <li>4. How to make a report on a visit to a National Park/Biodiversity Park/ Wild Life Sanctuary.</li> </ol>
ZOO-HC-2016	Non-Chordates II: Coelomates	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About non-chordates specially Annelida, Arthropoda, Onychophora, Mollusca and Echinodermata</li> <li>2. About the identification of the non-chordates museum specimens by viewing.</li> <li>3. About the mouth parts, feeding habits and details on the digestive system of cockroach, <i>Periplaneta americana</i>.</li> </ol>
ZOO-HC-2026	Cell Biology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. The details of the cell and the structures that construct the cell like Plasma membrane, Endomembrane system, Mitochondria, Peroxisomes, Cytoskeleton, Nucleus.</li> <li>2. To know the various steps of cell division and cell signaling.</li> <li>3. How to prepare the temporary slides to see the various stages of mitosis and meiosis. They will also learn to make the permanent slide like presence of bar body in human blood cell (Female).</li> </ol>
ZOO-HC-3016	Diversity of Chordata	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the general characteristics of the Chordates and their origin.</li> <li>2. About the various classes of Chordates like Pisces, Amphibians, Reptiles, Aves and Mammals.</li> </ol>

		<p>3. The concept of geographical separation and distribution of the various classes, the various theories like continental drift theory etc.</p>
ZOO-HC-3026	Animal Physiology: Controlling and Coordinating Systems	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the various physiological structures/organs responsible for the construction of a body including tissues, bone and cartilages, muscle etc.</li> <li>2. About the details of the organs responsible for reproduction.</li> <li>3. About the chemical messengers and the various glands that are responsible for the secretion of these messengers.</li> </ol>
ZOO-HC-3036	Fundamentals of Biochemistry	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the various bio-molecules including Carbohydrates, Lipids, Proteins.</li> <li>2. About the main hereditary material DNA with special emphasis on RNA.</li> <li>3. About the enzymes, their structures and how they work.</li> </ol>
ZOO-SE-3014	Ornamental Fish and Fisheries	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. Fish and Fisheries in NE India specially of Assam.</li> <li>2. About how to construct an aquarium and all the issues related to how to keep the ornamental fishes healthy.</li> <li>3. About how to analyze the various limnological parameters to keep the aquarium clean and healthy.</li> </ol>
ZOO –HC-4016	Anatomy of Vertebrates	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the various organ systems of our body.</li> <li>2. About the various modification of the skeleton in the living organisms.</li> </ol>
ZOO-HC-4026	Animal Physiology: Life Sustaining Systems	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. The various processes of digestion, respiration, blood circulation, and the functioning of the heart.</li> <li>2. How to determine the blood group, how to calculate the blood cells, how to record the blood pressure etc.</li> <li>3. The structures of stomach, duodenum, ileum, rectum, liver etc.</li> </ol>
ZOO-HC-4036	Metabolic Processes	<p>The course will enable the students to know</p>

		<ol style="list-style-type: none"> <li>1. The metabolic activities of the biomolecules, especially the Carbohydrates, Proteins, Lipids etc.</li> <li>2. The process of oxidative phosphorylation in the mitochondria.</li> <li>3. How to estimate the Protein, how to detect SGOT and SGPT in serum/tissue, about the biological oxidation etc.</li> </ol>
ZOO-SE-4014	Non-Mulberry Sericulture	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the knowledge of sericulture, mulberry, non-mulberry sericulture or wild varieties of insects in NE India.</li> <li>2. About the various operation of regarding rearing of silkworms.</li> <li>3. About the pests and diseases with their control.</li> </ol>
ZOO-HC-5016	Molecular Biology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. The details about the nucleic acid and the central dogma including DNA replication, Transcription, and Translation.</li> <li>2. The post transcriptional modifications and processing of Eukaryotic RNA.</li> <li>3. The gene regulation, DNA repair mechanisms, and regulatory RNAs.</li> </ol>
ZOO-HC-5026	Principles of Genetics	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. The origin of Mendelian genetics and its extension.</li> <li>2. The processes for linkage, crossing over, mutations, various types of inheritance.</li> <li>3. The recombination in bacteria and viruses, transposable genetic elements.</li> <li>4. The pedigree analysis of some human inherited traits.</li> </ol>
ZOO-HE-5016	Discipline centric elective courses: Computational Biology and Biostatics	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the application of Bio-informatics and Bio-Statistics in solving biological problems.</li> <li>2. About the various biological databases and how to retrieve data from these databases.</li> <li>3. How to run the various software to run a bioinformatical program.</li> </ol>
ZOO-HE-5036	Discipline centric elective courses: Endocrinology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>1. About the various endocrine glands and their secretion</li> </ol>

		<p>i.e., the hormones.</p> <ol style="list-style-type: none"> <li>About the structural peculiarities of various endocrine glands and their secretory mechanisms.</li> <li>About the various peripheral endocrine glands.</li> <li>About the mechanism of hormone action.</li> </ol>
ZOO-HC-6016	Developmental Biology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>What is developmental biology and what are early embryonic development, late embryonic development, post embryonic development</li> <li>What the implications of developmental Biology are</li> <li>The developmental stages of Drosophila from stock culture</li> </ol>
ZOO-HC-6026	Evolutionary Biology	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>The concept of evolution, the genetical aspects of evolution, various theories pertaining to evolution etc.</li> <li>The historical concepts of Lamarckism, Darwinism and Neo-Darwinism etc.</li> <li>The various processes of extinction</li> <li>The phylogenetic tree, multiple sequence alignment, interpretation of the tree etc.</li> </ol>
ZOO-HE-6026	Discipline centric elective courses: Fish and Fisheries	<p>The course will enable the students to know</p> <ol style="list-style-type: none"> <li>The systematics classification of fishes on the basis of their feeding habit, habitat and the manner of reproduction.</li> <li>The morphological and physiological peculiarities of fishes including locomotion, exchange of air, reproduction etc.</li> <li>The various fisheries which include inland fisheries, marine fisheries etc. They will also come to know about the various fishing gears adapted by the fisherman community to catch fishes of different shapes and sizes.</li> <li>The application of fish as a model animal in research. They will also able to know about the transgenic fishes.</li> </ol>
ZOO-HE-6056	Dissertation	<ol style="list-style-type: none"> <li>The course will enable the students to know how to conduct a study project and how to write the project report.</li> </ol>

## DEPARTMENT OF COMMERCE

### PROGRAM OUTCOME

- PO-1: After completing three years for Bachelors in commerce (B.Com) program, student would gain a thorough grounding in the fundamentals of Commerce and Finance.
- PO-2: The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern day challenges in commerce and business.
- PO-3: The all inclusive outlook of the course offer a number of values based and job oriented courses ensures that students are trained into up to date in advanced accounting beyond the introductory level , affective development will also progress to the valuing and organization levels.

### COURSE OUTCOME (CBCS)

PAPER CODE	NAME OF THE COURSE	COURSE OUTCOME
1016	Financial Accounting	CO-1: To enable students to learn and to keep track of companies financial transactions standard guidelines. CO-2: To acquaint students with the computerized accounting software. CO-3: To know about preparing financial statements.
1026	Bussiness Law	CO-1: To enable students to learn set of laws that govern the dealings regarding commercial matters. CO-2: To maintain order, resolve disputes and protect right and liabilities of individuals. CO-3:To identify transferable financial instruments.
1026	Invwstmwnt In Stock Market	CO:-1: To enable the students about the stock market CO:-2: Analysis the financial characteristics of the Company CO:-3: Understanding the mutual fund CO:-4: Understanding the future and option trading
2016	Corporate Accounting	CO:-1: Understand the procedures for the issue of shares. CO:- 2: Prepare Financial Statements of Companies CO:- 3 :Calculate purchase consideration in case of Amalgamation, Absorption and reconstruction. CO:- 4: Ascertain profit or loss prior to incorporation by applying various methods and shares.

2026	Corporate Law	CO:-1 Impart basic knowledge of the provisions of the Companies Act 2013 CO:-2 To Impart basic knowledge of the provisions of the Depositories Act, 1996. CO:-3 To Impart knowledge on practical aspects through case studies involving issues in corporate laws.
2026	Insurance & Risk Management	CO:-1 To Develop an understanding among students about identifying analyzing and managing various types of risk. CO:-2 To Understand principles of insurance and its usefulness in business. CO:-3 To Impart knowledge on regulatory framework
3016	Computer Applications In Business	CO :-1 Use of MS Power for presentation. CO:-2 Understanding the use of spreadsheet . CO:-3 Understanding on data base management system.
3026	Income Tax Law And Practice	CO:-1 Knowledge about the set of laws, regulation and also methods of establishing taxes. CO:-2 Residential status of individuals . CO:-3 Understanding the perquisites and allowances CO:-4 Income from various other sources.
3036	Management Principles And Application	CO:-1 Understanding on Management thoughts. CO:-2 Understanding the functions of management. CO:-3 Understanding the motivation and leadership techniques and theories. CO:-4 Understanding the controlling techniques of management
3046	Business Statistics	CO:-1 Understanding the statistical data and descriptive statistics. CO:-2 Understanding the probability. CO:-3 Understanding the correlation and regression analysis. CO:-4 Understanding time index number and time series analysis.
3054	Entrepreneurship	CO:-1 Entrepreneurial concepts CO:-2 Understanding the entrepreneurship in MSME and Entrepreneurial support system CO:-3 Understanding the sources of Business ideas and the their feasibility CO:-4 Understanding on resources mobilization for entrepreneurial start ups

3016	Company Law	<p>CO:-1 Understanding the concepts of company and its important documents MOA and AOA and online registration.</p> <p>CO:-2 Understanding on the Directors of the company and Board meetings.</p> <p>CO:-3 Understanding of the dividend payment, audit of the company and the winding up of the company.</p>
3044	New Venture Planning	<p>CO:-1 To develop an understanding of the process of identifying various sources of new business ideas of products and services</p> <p>CO:-2 Legal requirement and facilities</p> <p>CO:-3 Understanding the different sources of finance to set up a new venture</p> <p>CO:-4 Understanding the marketing of a new venture</p> <p>CO:-5 Concept of business plan and develop and a comprehensive business plan</p>
4016	Cost Accounting	<p>CO:-1 To acquaint with the basic concepts used in cost accounting</p> <p>CO:-2 Learn about various elements of cost like Materials, Labour and Overheads Learn the concept and calculation of cost in special situation like Job Costing, Contract Costing and Process Costing</p> <p>CO:-3 To Acquire knowledge of Integral and Non integral system.</p>
4026	Business Mathematics	<p>CO:-1 To provide the learners with the basic knowledge of mathematical tools so as to familiarize them with the application of these tools in business and economic situation.</p>
4036	Human Resource Management	<p>CO:-1 Gain knowledge of the processes to apply Human Resource Management Principles and techniques in dealing with human capital in organizations.</p> <p>CO:-2 Understand emerging challenges of HRM, methods of acquiring human resource, training them and measuring their performances.</p> <p>CO:-3 Learn issues related to Voluntary Retirement Scheme (VRS), downsizing, fringe benefits, HRIS, HRA, social security, employee welfare and ethics in HRM.</p>
4046 (A)	Indian Economy	<p>CO:-1: To give a clear picture of the major problems of Indian economy and their solutions.</p> <p>CO:-2: To understand the history of growth</p>

4046 (B)	Micro Finance	<p>CO:-1 Make the students understand the basic concepts of micro-finance and its importance.</p> <p>CO:-2 Develop understanding about the institutional structure of microfinance in India</p> <p>CO:-3 Develop understanding about the management of micro-finance institutions.</p> <p>CO:-4 Impart knowledge about microfinance in Indian context.</p>
4054(A)	E-Commerce	<p>CO:-1 To provide knowledge about various ecommerce tools, techniques, security issues for conducting business transactions through electronic means.</p> <p>CO:-2 To Provide practical skills for online transaction, e-payment and web designing methods etc.</p>
4054(B)	E-Filing Of Returns	<p>CO:-1 Acquire concepts and practical knowledge about E-filing of Returns</p> <p>CO:-2 Learn how to register on Income Tax E/filing Website and file various Income Tax returns</p> <p>CO:-3 Learn about the concept of TDS and E-filing of TDS returns.</p> <p>CO:-4 Acquire the knowledge about the relevant notification regarding E-filing of GST returns and the process of filling the same.</p>
5016	Principles Of Marketing	<p>CO:-1 Gain basic knowledge of concepts, principles, tools and techniques of marketing</p> <p>CO:-2 Understand about marketing mix components, consumer behavior, market segmentation, consumerism and</p> <p>CO:-3 Apply the learnt concepts in the context of recent developments in marketing.</p>
5026	Fundamentals Of Financial Management	<p>CO:-1 Familiarize the students with the principles and practices of financial management.</p> <p>CO:-2 Understanding on financial decision making and cost of capital</p> <p>CO:-3 Understanding on Investment decision making</p> <p>CO:-4 Understanding on working capital management and making the dividend decision.</p>
5036(A)	Management Accounting	<p>CO:-1 Acquire conceptual knowledge of various tools and techniques of Management Accounting</p> <p>CO:-2 Development of Managerial decision making skill</p>

		CO:-3 Learn the preparations of various budgets required in a business organization CO:-4 Acquire the knowledge of Standard Costing and variance analysis
5036(B)	Advanced Financial Accounting	CO:-1 Advanced knowledge on Financial Accounting applicable in Business of special nature and on Government Accounting CO:-2 Learn the accounting treatment for preparation of Royalty Accounts CO:-3 Acquire the knowledge of Insurance claim and Departmental accounts CO:-4 Learn the accounting treatment of Amalgamation and dissolution of Partnership firm.
5036(C)	Advertising	CO:-1 Acquire knowledge of the basic concepts of advertising as a promotional tool and medium of communication. CO:-2 Understand major media types, developing advertising appeals and measuring advertising effectiveness in view of social, ethical and legal aspects of advertising in India.
5036(F)	Indian Financial System	CO:-1: Provide students the basic knowledge of Indian Financial System and its components, institutions and their functions.
5024(A)	Entrepreneurship	CO:-1 Comprehend the role of entrepreneurship in social-economic development at local, state, national and global level. CO:-2 Evaluate the necessary techniques and formalities involved in building start ups. CO:-3 Develop an entrepreneurial mindset and zeal to pursue entrepreneurship as a profession and reap the benefits of self employment.
6016	Auditing And Corporate Governance	CO:-1 Acquire knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards CO:-2 Acquire knowledge of conducting audit of Limited Company CO:-3 Learn about Cost audit , Tax audit and Management audit

		CO:-4 Get an overview of the principles of Corporate Governance and Corporate Social Responsibility.
6026	Indirect Tax Laws	CO:-1 Acquire the basic knowledge of Indirect Tax Laws Cop:-2 Learn various provisions of Central Excise and Custom Laws CO:-3 Acquire knowledge about the structure of GST in India CO:-4 Learn the procedure of registration, levy and collection of Tax under GST.
6036(C)	Advanced Corporate Accounting	CO:-1 Acquire conceptual knowledge of accounting standards CO:-2 Learn about Corporate Annual Reports – its contents and Provisions CO:-3 Learn about the preparation of Liquidators Final Statement of Accounts CO:-4 Learn about the preparation of accounts of Banking and Insurance Companies
6036(E)	Industrial Relations And Labour Laws	CO:-1 Learn the concept of employer-employee relations discipline, collective bargaining, workers participation in management, arbitration, adjudication and negotiations to manage industrial disputes and conflicts. CO:-2 Evaluate the different labour laws related to trade unions, industrial disputes, provisions relating to health, safety, welfare measure and working hours in factories.
6036(F)	Business Research Methods And Project Work	CO:-1 Learn Research Methodology CO:-2 Demonstrate innovative thinking/ideas for future applications CO:-3 Orient the students for research work CO:-4 Acquire practical experience of Field Survey



  
 (Dr. Ranjan Kalita)  
 Principal  
 Rangapara College  
**Principal**  
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