M.C. College, Barpeta

(Affiliated to Gauhati University)

PROGRAMME OUTCOME, PROGRAMME SPECIFIC OUTCOME & COURSE OUTCOME

Programme outcome for Bachelor of Arts:

- After completing the B.A. course a student is expected to achieve the below mentioned Programme Outcome
- A student should be able to think critically: He/she should be able to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- A student should learn effective communication: Student should acquire the ability to speak, read, write and listen clearly in person and through electronic media in English and in at least one official language of Assam, and make meaning of the world by connecting people, ideas, books, media and technology.
- A student should learn Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- A student should acquire the knowledge of Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- A student should learn Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- A student should acquire the knowledge of Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
- A student should acquire the knowledge of Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.
- A student should understand the basic concepts, fundamental principles, and various theories in the taught subjects.
- A student should realize the importance of literature in terms of the aesthetic, mental, moral, and intellectual development of an individual and accordingly of society.
- A student should understand how issues in social science get influenced by the literature and how the literature can provide solutions to social issues.

SUBJECT: ASSAMESE

PROGRAMME SPECIFIC OUTCOME

গুৱাহাটী বিশ্ববিদ্যালয়ৰ দ্বাৰা অনুমোদিত অসমীয়া বিষয়ৰ (অনার্চ/ জেনেৰিক/ ৰেগুলাৰ) পাঠ্যক্রম সম্পর্কীয় ফলাফল (outcome) সমূহ নিম্নলিখিত ধৰণৰ–

- এই পাঠ্যক্রমৰ জৰিয়তে ছাত্র-ছাত্রীসকলে অসমীয়া সাহিত্যৰ যুগবিভাজন সম্পর্কত পণ্ডিতসকলৰ মতামত, উমৈহতীয়া সাহিত্যৰ ধাৰণা আৰু ইয়াৰ গুৰুত্বপূর্ণ নিদর্শন, প্রাক্ শংকৰী আৰু শংকৰী যুগৰ প্রধান সাহিত্যিকসকলৰ ৰচনাৰ বৈশিষ্ট্য, উত্তৰ শংকৰী যুগ, প্রাক্ অৰুনোদই, অৰুনোদই যুগৰ পটভূমিৰ জ্ঞান লভাৰ লগে লগে সেই সময়ছোৱাৰ গুৰুত্বপূর্ণ সাহিত্যিকৰ ৰচনাৰ সৈতে পৰিচিত হ'ব।
- এই পাঠ্যক্রমৰ যোগেদি ছাত্ৰ-ছাত্রীয়ে ভাষাবিজ্ঞানৰ ধাৰণাৰ আধাৰত ভাষা-বিশ্লেষণৰ বিভিন্ন শাখা, স্তৰ আৰু ধৰণৰ লগতে ভাষা অধ্যয়নৰ ইতিহাসৰ সৈতে পৰিচিত হ'ব। তদুপৰি উচ্চ ব্যাকৰণৰ ৰীতি অনুযায়ী অসমীয়া ভাষাৰ বৈয়াকৰণিক বিশ্লেষণ সম্পর্কে শিক্ষার্থীসকলে জানিব পাৰিব।
- এই পাঠ্যক্রমে প্রাচ্য আৰু পাশ্চাত্য সাহিত্যতত্ত্বৰ কেতবোৰ চর্চিত দিশ নতুনকৈ নিৰীক্ষণ কৰাত ছাত্র-ছাত্রীসকলক সহায় কৰিব।
- অসমীয়া সাহিত্যৰ বিশেষ কেতবোৰ সৃজনীমূলক তথা সমালোচনামূলক লেখাৰ লগতে প্রাক্ শংকৰী, শংকৰী, ৰমন্যাসিক আৰু আধুনিক কবিতাৰ ৰসাস্বাদনৰ বাট ছাত্র-ছাত্রীসকলৰ বাবে মুকলি কৰিব আৰু তাৰ জৰিয়তে সংশ্লিষ্ট সাহিত্য তথা সাহিত্যিকসকলৰ সাহিত্যকৃতি সম্পর্কে ছাত্র-ছাত্রীসকল পৰিচিত হ'ব। তদুপৰি ঊনবিংশ শতিকাৰ শেহৰফালে অসমীয়া কবিতাত যি ৰমন্যাসিকতাৰ সূচনা হৈছিল, তাৰ বিভিন্ন পর্ব আৰু কাব্যশিল্পসমূহৰ বিষয়ে ছাত্র-ছাত্রীসকলে অনুধাৱন কৰিব পাৰিব।
- এই পাঠ্যক্রমৰ জৰিয়তে অসমৰ সংস্কৃতিৰ লোকাচাৰ, ধর্মীয় পৰম্পৰা, উৎসৱ-পার্বণ, পৰিৱেশ্য কলা, স্থাপত্য-ভাস্কর্য-চিত্রকলাৰ জ্ঞান লভাৰ লগতে বৃহত্তৰ অসমীয়া জাতি গঠন প্রক্রিয়াৰ আভাস পাব।
- এই পাঠ্যক্রমে শিক্ষার্থীসকলক তুলনামূলক সাহিত্যৰ পটভূমি আৰু পৰিচয়ৰ লগতে আধুনিক যুগৰ ভাৰতীয় সাহিত্যৰ লগত পৰিচয় কৰাব।
- এই পাঠ্যক্রমৰ জৰিয়তে সংস্কৃত, প্রাকৃত, বাংলা, ওড়িয়া আদি আর্যভাষাৰ সৈতে অসমীয়া ভাষাৰ সম্পর্ক নিৰূপণ কৰিব পৰা হ'ব। সেইদৰে অসমীয়া ভাষাত থকা টাই-আহোম, বড়ো, ৰাভা, খাচী ইত্যাদি আর্যভিন্ন ভাষাৰ প্রভাৱ আৰু উপাদানৰ বিষয়ে ছাত্ৰ-ছাত্রীসকলে জানিব পাৰিব।
- শংকৰদেৱৰ নাটৰ গদ্যৰপৰা বুৰঞ্জীৰ গদ্যলৈকে অসমীয়া গদ্যৰ ক্রমবিকশিত ৰূপ সম্পর্কে স্পষ্ট ধাৰণা ছাত্র-ছাত্রীসকলে লাভ কৰিব পাৰিব।

- এই পাঠ্যক্রমৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া নাটকৰ ইতিহাসৰ ৰূপৰেখাৰ বিষয়ে অৱগত হোৱাৰ লগতে নির্দিষ্ট প্রতিনিধিত্বমূলক নাটক বিশেষৰ পৰিৱেশন শৈলীৰ বিষয়ে জানিব পাৰিব।
- এই পাঠ্যক্রমৰ যোগেদি অসমীয়া সাহিত্যৰ যুগন্ধৰ প্রতিভা শংকৰদেৱৰ বৰগীত, কীর্তনঘোষা, কাব্য আৰু নাট সম্পর্কে ছাত্ৰ-ছাত্ৰীসকলে জ্ঞান লাভ কৰিব। আনহাতে আধুনিক যুগৰ অসমীয়া সাহিত্যৰ কর্ণধাৰ লক্ষ্মীনাথ বেজবৰুৱাৰ সৃষ্টিশীল আৰু চিন্তামূলক লেখাসমূহৰ বিষয়েও আভাস লাভ কৰিব।
- অসমীয়া চুটিগল্প আৰু উপন্যাসৰ ধাৰা, অসমীয়া ভাষাৰ প্রতিনিধিত্বমূলক কেইটিমান বিশেষ চুটিগল্প আৰু এখন বিশেষ উপন্যাসৰ ৰসাস্বাদন কৰাৰ লগতে সেইসমূহৰ বিদ্যায়তনিক গুৰুত্ব সম্পর্কে ছাত্ৰ-ছাত্ৰীসকলে এই পাঠ্যক্রমৰ জৰিয়তে উপলব্ধি কৰিব পাৰিব।
- এই পাঠ্যক্রমৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া লিপিৰ ইতিহাসৰ আভাস পোৱাৰ লগতে অসমৰ শিলালিপি, অসমৰ তাম্রলিপি সম্পর্কেও জ্ঞান লাভ কৰিব।
- এই পাঠ্যক্রমৰ অংশবিশেষ ৰূপে জমা দিব লগা এটি প্রকল্পৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে ভাষা-সাহিত্য-সংস্কৃতি বিষয়ক সমলসমূহ ক্ষেত্ৰ-অধ্যয়নৰ জৰিয়তে প্রত্যক্ষভাৱে আহৰণৰ পদ্ধতি আয়ত্ত কৰিব পাৰিব আৰু তাৰ ভিত্তিত গৱেষণামূলক বিশ্লেষণ দাঙি ধৰিবলৈ সক্ষম হ'ব।

স্নাতক মহলাৰ (অনার্চ) পাঠ্যক্রম সম্পর্কীয় ফলাফল (outcome) –

ষাণ্মাসিক	কাকত-নম্বৰ	কাকতৰ শিৰোনাম	পাঠ্যক্ৰম সম্পর্কীয় ফলাফল (outcome)
১ম	ASM-HC-1016	অসমীয়া সাহিত্যৰ বুৰঞ্জী (চর্যাপদ – শংকৰী যুগ)	➢ অসমীয়া সাহিত্যৰ যুগ বিভাগঃ দেবেন্দ্র নাথ বেজবৰুৱা, হেমচন্দ্র গোস্বামী, বাণীকান্ত কাকতি, মহেশ্বৰ নেওগ, সত্যেন্দ্রনাথ শর্মা কৃত অসমীয়া সাহিত্যৰ যুগবিভাজন ➢ উদ্ভৱ কালৰ অসমীয়া সাহিত্যঃ উমৈহতীয়া সাহিত্যঃ চর্যাপদ, ডাকৰ বচন, শ্রীকৃষ্ণ কীর্তন আৰু শূন্য পুৰাণ ➢ প্রাক্-শংকৰী যুগঃ পটভূমি, সাধাৰণ বৈশিষ্ট্য, কবিসকল আৰু তেওঁলোকৰ সাহিত্যৰাজি (হেম সৰস্বতী, মাধৱ কন্দলি, হৰিবৰ বিপ্র) ➢ শংকৰী যুগঃ পটভূমি, সাধাৰণ বৈশিষ্ট্য, বৈষ্ণৱ আৰু পাঁচালী (শংকৰদেৱ, মাধৱদেৱ, ভট্টদেৱ, দুর্গাবৰ, সুকবি নাৰায়ণদেৱ আৰু তেওঁলোকৰ সাহিত্যকৃতি)
	ASM-HC-1026	অসমীয়া সাহিত্যৰ বুৰঞ্জী (উত্তৰ-শংকৰী	➢ উত্তৰ-শংকৰী যুগ (সপ্তদশ আৰু অষ্টাদশ শতিকা)ঃ ঐতিহাসিক আৰু সাহিত্যিক পটভূমি আৰু বৈশিষ্ট্য

		যুগ – অৰুনোদই যুগ)	➢ উত্তৰ-শংকৰী যুগৰ সাহিত্যঃ চৰিত সাহিত্য, ব্যৱহাৰিক সাহিত্য আৰু বুৰঞ্জী সাহিত্য ➢ প্ৰাক্-অৰুনোদই আৰু অৰুনোদই যুগ (ঊনবিংশ শতিকা)ঃ ঐতিহাসিক আৰু সাহিত্যিক পটভূমি আৰু বৈশিষ্ট্য ➢ প্ৰাক্-অৰুনোদই আৰু অৰুনোদই যুগৰ সাহিত্যঃ মণিৰাম দেৱান, কাশীনাথ তামুলী ফুকন আৰু বিশ্বেশ্বৰ বৈদ্যাধিপ, নাথান ব্ৰাউন, আনন্দৰাম ঢেকিয়াল ফুকন, হেমচন্দ্ৰ বৰুৱাৰ সাহিত্যকৃতি
২য়	ASM-HC-2016	ভাষাবিজ্ঞান পৰিচয়	➢ ভাষাবিজ্ঞানৰ সাধাৰণ পৰিচয়ঃ ভাষাবিজ্ঞানৰ সংজ্ঞা, ভাষাবিজ্ঞানৰ লগত ভাষাতত্ত্ব আৰু ব্যাকৰণৰ সম্পৰ্ক ➢ ভাষাবিজ্ঞানৰ শাখা-প্ৰশাখাঃ বৰ্ণনাত্মক ভাষাবিজ্ঞান, ঐতিহাসিক ভাষাবিজ্ঞান, তুলনামূলক ভাষাবিজ্ঞান, বিৰোধমূলক ভাষাবিজ্ঞান, সমাজ-ভাষাবিজ্ঞান, মনো-ভাষাবিজ্ঞান, উপভাষাবিজ্ঞান ➢ ভাষাবিজ্ঞানৰ অধ্যয়নৰ স্তৰঃ ধ্বনিতত্ত্ব, ৰূপতত্ত্ব, শব্দাৰ্থতত্ত্ব, বাক্যতত্ত্ব ➢ ভাষা সম্পৰ্কীয় চিন্তা-চৰ্চা আৰু অধ্যয়নৰ ইতিহাসঃ পাণিনীয় ধাৰা, গ্ৰীক ধাৰা
	ASM-HC-2026	সাহিত্য-সমালোচনা	➢ ৰস, ধ্বনি, গুণ, ৰীতিঃ সংজ্ঞা আৰু স্বৰূপ ➢ কবিতাত কল্পনাৰ স্থান, চিত্ৰকল্পবাদ, প্ৰতীকবাদ ➢ ট্ৰেজেডি, এবছাৰ্ড আৰু ব্ৰেখটীয় নাট্য ধাৰা ➢ চুটিগল্প আৰু উপন্যাসঃ ৰূপ-বৈচিত্ৰ্য
৩য়	ASM-HC-3016	অসমীয়া সাহিত্য-প্ৰৱেশ	➢ সাধুকথা, কবিতা আৰু গল্পঃ লক্ষ্মীনাথ বেজবৰুৱা (সংগ্ৰাহক)ঃ চম্পাৱতীৰ সাধু দেৱকান্ত বৰুৱাঃ লাচিত বৰফুকন হেম বৰুৱাঃ মমতাৰ চিঠি নৱকান্ত বৰুৱাঃ এটা প্ৰেমৰ পদ্য হীৰেন ভট্টাচাৰ্যঃ শৰ সন্ধান চৈয়দ আব্দুল মালিকঃ দুখন ভৰি মহিম বৰাঃ টোপ ➢ প্ৰবন্ধ আৰু সমালোচনাঃ সত্যনাথ বৰাঃ জীৱনৰ অমিয়া বেণুধৰ শৰ্মাঃ মকৰা পেস্কাৰ হীৰেন গোহাঁইঃ মানুহ শংকৰদেৱ ➢ আত্মজীৱনী, জীৱনী আৰু উপন্যাসঃ ভবেন্দ্ৰ নাথ শইকীয়াঃ জীৱন বৃত্ত (প্ৰথম অধ্যায়)

			কৃষ্ণকান্ত সন্দিকৈ (আব্দুছ ছাত্তাৰ প্ৰণীত গ্ৰন্থ)ঃ ব্যক্তিগত পুথিভঁৰাল হোমেন বৰগোহাঞিঃ সাউদৰ পুতেকে নাও মেলি যায় (দ্বিতীয় অধ্যায়) ➢ ভ্ৰমণ সাহিত্য আৰু ব্যক্তিগত ৰচনাঃ বিৰিঞ্চি কুমাৰ বৰুৱাঃ কথা চহকী মাৰ্কিন ডেকাৰ সংগসুখ হেম বৰুৱাঃ মেকং নৈ দেখিলোঁ (প্ৰথম অধ্যায়) দেৱব্ৰত দাসঃ আশা আৰু সান্ত্বনাৰ কথা
	ASM-HC-3026	অসমীয়া কবিতাৰ চানেকি	➢ মাধৱ কন্দলিঃ চিত্ৰকূটৰ চিত্ৰ (ৰামায়ণৰ পৰা) দুৰ্গাবৰঃ মায়া অযোধ্যাৰ সৃষ্টি আৰু চতুৰ্দশীৰ খেলা ➢ শংকৰদেৱঃ শৰৎ বৰ্ণনা (দশমস্কন্ধ ভাগৱতৰপৰা) ৰাম সৰস্বতীঃ দ্ৰৌপদীৰ বিলাপ ➢ চন্দ্ৰকুমাৰ আগৰৱালাঃ প্ৰকৃতি ৰঘুনাথ চৌধাৰীঃ অন্তিম জ্যোতি দেৱকান্ত বৰুৱাঃ মনোৰমা ➢ নৱকান্ত বৰুৱাঃ পলস অজিৎ বৰুৱাঃ আজি আকৌ মেজাংকৰিৰ এঙাচোলা পিন্ধি নীলমণি ফুকনঃ ব্ৰহ্মপুত্ৰত সূৰ্যাস্ত
	ASM-HC-3036	অসমৰ সংস্কৃতি	➢ সংস্কৃতিৰ সংজ্ঞা আৰু স্বৰূপ আৰু বৃহত্তৰ অসমীয়া জাতি গঠন প্ৰক্ৰিয়া ➢ সামাজিক লোকাচাৰ, ধৰ্মীয় পৰম্পৰা আৰু উৎসৱ-পাৰ্বণঃ (লোকাচাৰঃ জন্ম, মৃত্যু আৰু বিবাহৰ লগত জড়িত; ধৰ্মীয় পৰম্পৰাঃ শৈৱ, শাক্ত আৰু বৈষ্ণৱ; উৎসৱ-পাৰ্বণঃ কৃষিৰ লগত জড়িত) ➢ অসমীয়া পৰিৱেশ্য কলা আৰু পৰম্পৰাগত খেল-ধেমালি ➢ অসমৰ স্থাপত্য, ভাস্কৰ্য আৰু চিত্ৰকলা
৪ৰ্থ	ASM-HC-4016	তুলনামূলক ভাৰতীয় সাহিত্য	➢ তুলনামূলক সাহিত্যৰ পৰিচয়ঃ সংজ্ঞা, উৎস আৰু বিকাশ, অধ্যয়ন ক্ষেত্ৰ, বিভিন্ন শাখা, অধ্যয়নৰ তাৎপৰ্য, শেহতীয়া ধাৰা ➢ তুলনামূলক ভাৰতীয় সাহিত্যৰ পৰিচয়ঃ ভাৰতীয় ধাৰণা আৰু ইতিহাস, তুলনামূলক ভাৰতীয় সাহিত্যৰ ভিত্তি আৰু বিকাশ, অধ্যয়নৰ ক্ষেত্ৰ আৰু প্ৰাসংগিকতা ➢ চুটিগল্পঃ অভাগীৰ স্বৰ্গঃ শৰৎচন্দ্ৰ চট্টোপাধ্যায়

			ৱাপচিঃ ঊষা প্রিয়ম্বদা গান্ধীঃ বেছগাহাল্লি ৰামা ➢ উপন্যাসঃ নির্মলাঃ মুন্সী প্রেমচান্দ পথেৰ পাচালীঃ বিভূতিভূষণ বন্দোপাধ্যায়
	ASM-HC-4026	অসমীয়া ভাষাৰ সমাহৰণঃ আর্য ভাষা আৰু আর্যভিন্ন ভাষা	➢ উদ্ভৱকালীন অসমীয়া ভাষাঃ আর্যভিন্ন থলুৱা জনগোষ্ঠী, আর্যসকলৰ অসমলৈ প্রব্রজন, অসমীয়া ভাষা-সম্প্রদায়ৰ গঠন ➢ ভাৰতীয় আর্যভাষাৰ লগত অসমীয়া ভাষাৰ সম্বন্ধঃ অসমীয়া ভাষাত মাগধী প্রাকৃত আৰু অন্যান্য প্রাকৃতৰ উপাদান ➢ আর্য-ভিন্ন ভাষাৰ লগত অসমীয়া ভাষাৰ সম্বন্ধঃ অষ্ট্রিক, তিব্বতবর্মীয় আৰু দ্রাবিড় ভাষা-পৰিয়ালৰ উপাদান ➢ সাম্প্রতিক অসমীয়া ভাষাত আর্য আৰু আর্যভিন্ন ভাষাৰ উপাদান
	ASM-HC-4036	অসমীয়া গদ্য সাহিত্য	➢ শংকৰদেৱৰ ‘ৰুক্মিণী হৰণ’ নাটৰ অন্তর্গত ৰুক্মিণীৰ প্রেমপত্র মাধৱদেৱৰ ‘অর্জুন ভঞ্জন’ নাটৰ অন্তর্গত নন্দ-যশোদাৰ কলহ বৰকৰতী পুথিৰ বায়ুকৰতী মন্ত্র ➢ ভট্টদেৱৰ কথাগীতা (প্রথম অধ্যায়)ঃ অর্জুনৰ বিষাদ যোগ গোপালচৰণ দ্বিজৰ শ্রীভক্তি ৰত্নাকৰ কথাঃ গুৰু-সেৱা মাহাত্ম্য ৰঘুনাথ মহন্তৰ শ্রীৰামায়ণ কথাঃ ৰামৰ বন গমন ➢ কথা গুৰুচৰিতঃ গুৰু-শিষ্যৰ মণিকাঞ্চন সংযোগ সাতসৰী অসম বুৰঞ্জীঃ অসমৰ ৰণোদ্যম ➢ সুকুমাৰ বৰকাথৰ ‘হস্তী বিদ্যার্ণৱ’ঃ হাতীৰ লক্ষণ সপ্তদশ শতিকাৰ চামধৰা গড়ৰ ৰণজয়ৰ শিলৰ ফলি বদন চন্দ্র বৰফুকনলৈ চন্দ্রকান্ত সিংহ স্বর্গদেউৰ গোপনীয় পত্র
৫ম	ASM-HC-5016	অসমীয়া নাটক আৰু পৰিৱেশনশৈলী	➢ অসমীয়া নাটকৰ চমু ইতিহাসঃ লোকনাট্য; অংকীয়া নাট আৰু ঝুমুৰা উত্তৰ স্বাধীনতা যুগৰ নাটক (মহাকাব্যিক নাটক, এবচার্ট নাটক, লোককলাৰ সমল অন্তর্ভুক্ত নাটক) অসমীয়া নাটকৰ পৰিৱেশনশৈলীৰ ইতিহাসঃ বিভিন্ন ধৰণৰ মঞ্চ (পৰিৱেশনৰ স্থান),

			দৃশ্যসজ্জা, মঞ্চসজ্জা, নাটকৰ আহার্য, অভিনয়শৈলী আদিৰ স্বৰূপ আৰু বিকাশ ➢ অংকীয়া নাট আৰু পৰিৱেশন ৰুক্মিণী হৰণঃ শংকৰদেৱ (অংকীয়া নাটৰ আহার্য, মুখা, গায়ন-বায়ন সম্পর্কে বিশেষকৈ জানিব লাগিব।) ➢ প্রাক্ স্বাধীনতা যুগৰ অসমীয়া নাটক আৰু পৰিৱেশন নীলাম্বৰঃ প্রসন্নলাল চৌধুৰী (মঞ্চসজ্জা, আলোকসম্পাত, অভিনয়ৰীতি সম্পর্কে বিশেষকৈ জানিব লাগিব।) ➢ উত্তৰ স্বাধীনতা যুগৰ অসমীয়া নাটক আৰু পৰিৱেশন আহাৰঃ অৰুণ শর্মা উৰুখাঃ কৰুণা ডেকা (মঞ্চৰীতি, অভিনয়ৰীতি, উপস্থাপনশৈলী সম্পর্কে বিশেষকৈ জানিব লাগিব।)
	ASM-HC-5026	অসমীয়া ব্যাকৰণ	➢ অসমীয়া ব্যাকৰণৰ ইতিহাস, ব্যাকৰণৰ শ্রেণীবিভাগ, ব্যাকৰণৰ উপাদানঃ ধ্বনি, ৰূপ, শব্দ, বাক্য ➢ অসমীয়া ভাষাৰ ধ্বনিতত্ত্বঃ বিভাজ্য ধ্বনিঃ স্বৰধ্বনি, ব্যঞ্জনধ্বনি অবিভাজ্য ধ্বনিঃ শ্বাসাঘাত, সন্ধি, অনুনাসিকতা, সুৰ-লহৰ ➢ অসমীয়া ভাষাৰ ৰূপতত্ত্বঃ বচন, লিংগ, নাম বিভক্তি, ক্রিয়া বিভক্তি ➢ অসমীয়া ভাষাৰ বাক্যতত্ত্বঃ অসমীয়া বাক্যৰ শ্রেণী বিভাজন, অসমীয়া বাক্যৰ গাঁথনিক বিশ্লেষণ— নিকটস্থ অংগ বিচাৰ, খণ্ডবাক্য গঠনৰ নিয়ম
	ASM-HE-5026	অসমীয়া ৰমন্যাসবাদী কবিতা	➢ লক্ষ্মীনাথ বেজবৰুৱাঃ ভ্রম চন্দ্রকুমাৰ আগৰৱালাঃ নিয়ৰ মফিজুদ্দিন আহমদ হাজৰিকাঃ আত্মন হেমচন্দ্র গোস্বামীঃ প্রিয়তমাৰ চিঠি ➢ ৰঘুনাথ চৌধাৰীঃ কেতেকী (প্রথম তৰংগ) অম্বিকাগিৰী ৰায়চৌধুৰীঃ মানৱায়তন ৰত্নকান্ত বৰকাকতিঃ বিশ্বহৰণ যতীন্দ্রনাথ দুৱৰাঃ সোণোৱালী দেশ ➢ শৈলধৰ ৰাজখোৱাঃ বিদায় পৰত নলিনীবালা দেৱীঃ পৰশমণি জ্যোতিপ্রসাদ আগৰৱালাঃ বিশ্বশিল্পী ➢ ডিম্বেশ্বৰ নেওগঃ শাপমুক্তা

			বিনন্দ চন্দ্র বৰুৱাঃ হে জননী ভাৰতবর্ষ অতুল চন্দ্র হাজৰিকাঃ লালকিল্লা
	ASM-HE-5036	শংকৰদেৱ	➢ শংকৰদেৱৰ সাহিত্যৰ পৰিচয় আৰু পটভূমি ➢ বৰগীতঃ (১) নাৰায়ণ কাহে ভকতি (২) সাৰঙ্গ পাণি হে ➢ কীর্তনঘোষাঃ (১) গজেন্দ্র উপাখ্যান (২) শিশু লীলা ➢ হৰিশ্চন্দ্র উপাখ্যান ➢ পাৰিজাত-হৰণ নাট
৬ষ্ঠ	ASM-HC-6016	অসমীয়া চুটিগল্প আৰু উপন্যাস	➢ অসমীয়া চুটিগল্পৰ ধাৰা ➢ অসমীয়া উপন্যাসৰ ধাৰা ➢ চুটিগল্প লক্ষ্মীধৰ শর্মাঃ নীনা যোগেশ দাসঃ বৰদেউতা পূৰৱী বৰমুদৈঃ ৰাজনীতি নুবুজা মানুহ ➢ উপন্যাস মামণি ৰয়ছম গোস্বামীঃ দঁতাল হাতীৰ উঁয়ে খোৱা হাওদা
	ASM-HC-6026	অসমীয়া লিপিৰ ইতিহাস	➢ লিপিৰ পৰিচয় আৰু ভাৰতীয় লিপি; অসমীয়া লিপিৰ উদ্ভৱ আৰু বিকাশ ➢ অসমৰ শিলালিপিঃ পৰিচয়মূলক অধ্যয়ন—সুৰেন্দ্র বর্মাৰ উমাচল লিপি, ভূতি বর্মাৰ বৰগঙ্গা লিপি, হর্জৰ বর্মাৰ তেজপুৰ লিপি, কাণাই বৰশীবোৱা লিপি, সমুদ্রপালৰ আমবাৰী লিপি, গছতলৰ লিপি ➢ অসমৰ তাম্রলিপিঃ পৰিচয়মূলক অধ্যয়ন—ভাস্কৰ বর্মাৰ ডুবি আৰু নিধনপুৰ শাসন, হর্জৰ বর্মাৰ হায়ুংথল শাসন, বনমাল বর্মাৰ তেজপুৰ আৰু পর্বতীয়া শাসন, বলবর্মাৰ নগাঁও আৰু হাওৰাঘাট শাসন ➢ অসমীয়া হাতেলিখা পুথিৰ লিপিঃ গড়গঞা লিপি, বামুণীয়া লিপি, কায়থেলী লিপি, হাতেলিখা পুথিৰ লিখন কলা আৰু লেখন সামগ্রী
	ASM-HE-6016	লক্ষ্মীনাথ বেজবৰুৱা	➢ কবিতা (কবিতা, মালতী, বীণবৰাগী ১ম তৰংগ) ➢ সুৰভি (বাপিৰাম, লাওখোলা, মলক গুইন্ গুইন্) ➢ আত্মজীৱনী (মোৰ জীৱন সোঁৱৰণ, প্রথম ভাগ) ➢ তত্বকথাঃ গীতা-তত্ব লঘু ৰচনাঃ কৃপাবৰ বৰুৱাৰ উইল

	ASM-HE-6056	প্ৰকল্প	➢ এই কাকতখনৰ বাবে ছাত্ৰ-ছাত্ৰীয়ে বিভাগীয় শিক্ষকৰ তত্ত্বাৱধানত কোনো গুৰুত্বপূৰ্ণ স্থান, উৎসৱ-পাৰ্বণ, লোকাচাৰ, লোক পৰিৱেশ্য কলা, লোকসাহিত্য, লোকভাষা আদি যিকোনো এটা বিষয়ত প্ৰকল্প প্ৰস্তুত কৰিব লাগিব। প্ৰকল্পৰ শব্দসংখ্যা ৪০০০-৫০০০ৰ ভিতৰত হ'ব লাগিব।

স্নাতক মহলাৰ (ৰেগুলাৰ/জেনেৰিক) পাঠ্যক্ৰম সম্পৰ্কীয় ফলাফল (outcome) -

ষাণ্মাসিক	কাকত-নম্বৰ	কাকতৰ শিৰোনাম	পাঠ্যক্ৰম সম্পৰ্কীয় ফলাফল (outcome)
১ম	AECC-1014	যোগাযোগমূলক অসমীয়া	➢ কথনগত দক্ষতাঃ ভাষা জ্ঞান, যতি জ্ঞান, উচ্চাৰণ ➢ কৰ্মক্ষেত্ৰৰ অসমীয়াঃ আবেদন, বিজ্ঞাপন, নিবিদা লেখন দক্ষতা ➢ সামাজিক মাধ্যম আৰু অসমীয়া ভাষাঃ ইণ্টাৰনেট, ফে'ইচবুক, টুইটাৰ ➢ কম্পিউটাৰ আৰু অসমীয়া ভাষাঃ অসমীয়া মুদ্ৰণ, অসমীয়া ভাষাৰ ছফটৱেৰৰ ব্যৱহাৰ
	ASM-RC-1016	অসমীয়া ভাষাৰ ইতিহাস	➢ অসমীয়া ভাষাৰ উদ্ভৱ আৰু যুগবিভাজন ➢ প্ৰাচীন অসমীয়া ভাষাৰ ভাষাগত বৈশিষ্ট্যঃ চৰ্যাপদ, মাধৱ কন্দলিঃ ৰামায়ণ, শংকৰদেৱঃ দশম ➢ মধ্যযুগৰ অসমীয়া ভাষাৰ ভাষাগত বৈশিষ্ট্যঃ বুৰঞ্জী, চৰিত পুথি, মন্ত্ৰপুথি ➢ আধুনিক অসমীয়া ভাষাৰ ভাষাগত বৈশিষ্ট্যঃ আনন্দৰাম ঢেকিয়াল ফুকনঃ অচমিয়া লৰাৰ মিত্ৰ হেমচন্দ্ৰ বৰুৱাঃ আত্মজীৱন চৰিত লক্ষ্মীনাথ বেজবৰুৱাঃ বুটী আইৰ সাধু
২য়	ASM-RC-2016	অসমীয়া সাহিত্যৰ ইতিহাস	➢ লোকসাহিত্য সংজ্ঞা, সাধাৰণ বৈশিষ্ট্যঃ অসমীয়া লোকসাহিত্যৰ শ্ৰেণীবিভাগ আৰু প্ৰতিটো বিভাগৰ আলোচনা ➢ প্ৰাক্-শংকৰী যুগৰ সাহিত্য পটভূমি, সাধাৰণ বৈশিষ্ট্য, কবিসকল আৰু তেওঁলোকৰ সাহিত্যৰাজি ➢ শংকৰী যুগৰ সাহিত্য

			পটভূমি, সাধাৰণ বৈশিষ্ট্য, বৈষ্ণৱ আৰু পাঁচালী কবিসকল আৰু তেওঁলোকৰ সাহিত্যকৃতি ➢ উত্তৰ-শংকৰী যুগৰ সাহিত্য পটভূমি, সাধাৰণ বৈশিষ্ট্যঃ চৰিত সাহিত্য, ব্যৱহাৰিক সাহিত্য আৰু বুৰঞ্জী সাহিত্য
৩য়	ASM-SE-3014	ব্যৱহাৰিক অসমীয়া (দক্ষতা বিকাশ পাঠ্য)	➢ আৰ্হি পাঠঃ পদ্ধতি আৰু কৌশল ➢ ছপা আৰু বৈদ্যুতিন মাধ্যমৰ বাবে বিজ্ঞাপন লেখন, ইংৰাজী-হিন্দী বিজ্ঞাপনৰ অসমীয়া অনুবাদ ➢ অনুবাদঃ সংবাদ, প্ৰবন্ধ, সাক্ষাৎকাৰ ➢ চিত্ৰনাট্য নিৰ্মাণঃ সাহিত্যৰ চিত্ৰায়ণ
	ASM-CC-3016	প্ৰাচীন অসমীয়া সাহিত্য	➢ গীত-পদঃ শংকৰদেৱঃ জয় জয় যাদৱ (বৰগীত) সুকবি নাৰায়ণদেৱঃ অ' কি বেফুলা জাগ অ' (পাঁচালী গীত) ➢ কাব্যঃ হৰিবৰ বিপ্ৰঃ বভ্ৰুবাহনৰ যুদ্ধ অনন্ত কন্দলিঃ কুমৰ হৰণ ➢ নাটকঃ মাধৱদেৱঃ অৰ্জুন ভঞ্জন ➢ কথা-সাহিত্যঃ বৈকুণ্ঠনাথ ভট্টাচাৰ্যঃ অৰ্জ্জুনৰ সাংখ্য যোগ (শ্ৰীমদ্ভাগৱদগীতাৰ অসমীয়া অনুবাদৰ দ্বিতীয় অধ্যায়) ৰঘুনাথ মহন্তঃ ৰামৰ বন-গমন

	ASM-HG-3016	অসমীয়া নাটক আৰু মঞ্চকলা	➢ পৰম্পৰাগত অসমীয়া মঞ্চ আৰু নাট্যৰীতি লোকনাট্য আৰু ইয়াৰ পৰিৱেশন—পুতলা নাচ, ওজাপালি, কুশান গান, ভাওনা (লোকনাট্য মানে কি, লোকজীৱনৰ সৈতে লোকনাট্যৰ সম্পৰ্ক, লোকনাট্যৰ বিষয়বস্তু, উপস্থাপন কৌশল, মঞ্চ আৰু অভিনয়—আহার্য, সাত্বিক, বাচিক, আংগিক) ➢ অসমৰ প্ৰচেনিয়াম মঞ্চ আৰু ইয়াৰ ইতিহাস (আৰম্ভণিৰপৰা ১৯৪৭ লৈকে) ➢ আধুনিক অসমীয়া নাটকৰ পৰিৱেশন মঞ্চসজ্জা, সাজসজ্জা আৰু অংগসজ্জা, আলোকসম্পাত, আৱহ সংগীত, অভিনয় ➢ অসমৰ বিকল্প মঞ্চ আৰু পৰিৱেশন বাটৰ নাট, অনাতাঁৰ নাট, মুকাভিনয়, একাংকিকা নাটক আৰু ভ্ৰাম্যমান নাটক
৪র্থ	ASM-SE-4014	সৃজনীমূলক সাহিত্য	➢ কল্পনাৰ সংজ্ঞা আৰু পৰিসৰ কল্পনাৰ কর্ষণ সৃজনীমূলক সাহিত্য ৰচনাৰ প্ৰয়োজনীয় যোগ্যতা ➢ আধুনিক কবিতাঃ সংজ্ঞা আৰু বৈশিষ্ট্য আধুনিক কবিতাৰ পটভূমি আধুনিক কবিতাৰ ভাষা ➢ গল্পৰ বীজ ৰোপণ গল্প ৰচনাৰ বাবে ক্ষেত্ৰ অধ্যয়ন গল্পৰ নির্মাণ ➢ কবিতা আৰু গল্পৰ আৰ্হি প্ৰস্তুতকৰণ
	ASM-CC-4016	আধুনিক অসমীয়া সাহিত্য	➢ হীৰেন ভট্টাচার্যঃ শোভাযাত্ৰাত নিহতজনৰ কবিতা নির্মলপ্ৰভা বৰদলৈঃ মর্মান্তিক ৰাম গগৈঃ পথাৰ ➢ সৌৰভ কুমাৰ চলিহাঃ বীণা কুটীৰ ভবেন্দ্ৰনাথ শইকীয়াঃ বানপ্ৰস্থ অৰূপা পটঙ্গীয়া কলিতাঃ দেওপাহাৰৰ ভগ্নস্তুপত ➢ বেণুধৰ শর্মাঃ মণিৰাম দেৱানৰ ফাঁচী ডিম্বেশ্বৰ নেওগঃ বনঘোষা-বনৰীয়া গীত ➢ জ্যোতিপ্ৰসাদ আগৰৱালাঃ লভিতা
	ASM-HG-4016	আধুনিক অসমীয়া গীতি	➢ অসমীয়া আধুনিক গীতি সাহিত্যৰ ইতিহাস ➢ হেৰা আমাৰ জন্মভূমিঃ লক্ষ্মীনাথ বেজবৰুৱা

		সাহিত্য	মোৰ গানত জ্বলে শত যুগৰ কত অভিমানঃ জ্যোতিপ্রসাদ আগৰৱালা পূজোঁ আহাঁ আই মাতৃঃ পার্বতিপ্রসাদ বৰুৱা অ' অসমীয়া ডেকা দলঃ বিষ্ণুপ্রসাদ ৰাভা ➢ নিয়ৰৰে ফুল এপাহ ফুলিলঃ নৱকান্ত বৰুৱা হে দোলাঃ ভূপেন হাজৰিকা হঞ্ৰেৰা জেতুকীঃ ৰুদ্র বৰুৱা কাউৰী পৰেঃ কেশৱ মহন্ত ➢ বহুদিন বকুলৰ গোন্ধ পোৱা নাইঃ তফজুল আলি সন্ধিয়াৰ আকাশত বগলী উৰেঃ নির্মলপ্রভা বৰদলৈ মাহ হালধিৰে নোৱালে ধুৱালেঃ দ্বিজেন্দ্রমোহন শর্মা তোমাৰ বাবেই আছোঁ বাট চাইঃ কীর্তিকলম ভূঞা
৫ম	ASM-RE-5026	শংকৰদেৱ	➢ শংকৰদেৱৰ সাহিত্যৰ পৰিচয় আৰু পটভূমি ➢ বৰগীতঃ (১) নাৰায়ণ কাহে ভকতি (২) সাৰঙ্গ পাণি হে ➢ কীর্তনঘোষাঃ (১) গজেন্দ্র উপাখ্যান (২) শিশু লীলা ➢ হৰিশ্চন্দ্র উপাখ্যান পাৰিজাত-হৰণ নাট
	ASM-RG-5016	আবৃত্তি কলা (বর্গীয় ঐচ্ছিক পাঠ্য)	➢ আবৃত্তিৰ ইতিহাস আৰু পৰম্পৰা; আবৃত্তিৰ উপস্থাপন ➢ আবৃত্তিৰ প্রস্তুতিঃ কাব্য বোধ, ছন্দ আৰু যতিৰ ধাৰণা, কাব্য গতি (pace) স্মৃতিকৰণ (memorization) ➢ আবৃত্তিৰ কৌশলঃ স্বৰ ক্ষেপন, স্বৰ কম্পন (modulation), সঠিক উচ্চাৰণ, সুৰ আৰু লয়ৰ প্রয়োগ ➢ ব্যৱহাৰিক পৰীক্ষাঃ জ্যোতিপ্রসাদ আগৰৱালা/ নৱকান্ত বৰুৱা/ হীৰেন ভট্টাচার্যৰ যিকোনো এটা কবিতাৰ আবৃত্তি
৬ষ্ঠ	ASM-SE-6016	অসমীয়া আখৰ-জোঁটনি	➢ বর্ণাশুদ্ধিৰ কাৰণঃ স্বৰধ্বনিগত বর্ণাশুদ্ধি – স্বৰধ্বনি আৰু আখৰৰ সম্পর্ক, স্বৰচিহ্ন

			➢ ব্যঞ্জনধ্বনিগত বর্ণাশুদ্ধিঃ ব্যঞ্জনধ্বনি আৰু আখৰৰ সম্পৰ্ক, যুক্তাক্ষৰ ➢ ভুল প্ৰয়োগঃ বিভক্তি, প্ৰত্যয়, চন্দ্ৰবিন্দু, যতিচিহ্ন, তৎসম শব্দৰ বানান, থলুৱা শব্দৰ বানান ➢ লিপ্যন্তৰ পদ্ধতি আৰু প্ৰয়োগ
	ASM-RG-6016	ছন্দ আৰু অলংকাৰ	➢ অক্ষৰ, মাত্ৰা, লয়, যতি, চৰণ, মুক্তক ➢ নিৰ্বাচিত ছন্দঃ পদ, দুলড়ী, ছবি, লেচাৰী, একাৱলী, ঝুমুৰী, কুসুমমালা ➢ অলংকাৰঃ সংজ্ঞা আৰু অলংকাৰৰ প্ৰয়োজনীয়তা, অলংকাৰৰ প্ৰকাৰভেদ ➢ নিৰ্বাচিত অলংকাৰঃ অনুপ্ৰাস, যমক, শ্লেষ, বক্ৰোক্তি, পুনৰুক্তিৱদাভাস, উপমা, ৰূপক, ভ্ৰান্তিমান, উৎপ্ৰেক্ষা, ব্যাজস্তুতি

গুৱাহাটী বিশ্ববিদ্যালয়ৰ দ্বাৰা অনুমোদিত স্নাতকোত্তৰ মহলাৰ অসমীয়া বিষয়ৰ পাঠ্যক্ৰম সম্পৰ্কীয় ফলাফল (outcome) সমূহ নিম্নলিখিত ধৰণৰ–

- এই পাঠ্যক্ৰমৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীসকলে অসমীয়া ভাষাৰ উত্থান আৰু বিকাশৰ সামগ্ৰিক পৰিক্ৰমা সম্পৰ্কে জানিব পাৰিব।
- অসমীয়া সাহিত্যৰ আধুনিক ৰূপকৰ্ম, যেনেঃ কবিতা, নাটক, উপন্যাস আৰু চুটিগল্পৰ সামগ্ৰিক গতিধাৰা সম্পৰ্কে কেইজনমান বিশিষ্ট কবি-সাহিত্যিকৰ ৰচনাৰ আধাৰত ছাত্ৰ-ছাত্ৰীসকলে জানিব পাৰিব।
- সংস্কৃতিৰ তাত্ত্বিক দিশৰ লগতে অসমীয়া সংস্কৃতিৰ ইতিহাস, ইয়াৰ বিভিন্ন দিশ, যেনেঃ অসমৰ মানুহ আৰু তেওঁলোকৰ নৃগোষ্ঠীয় গোট, স্থাপত্য, ভাস্কৰ্য, অভিলেখ, ধৰ্ম আৰু ধৰ্মীয় অনুষ্ঠান, ধৰ্মীয় ইতিহাস, সাংস্কৃতিক সমাহৰণ, অনাৰ্যীকৰণ, সাংস্কৃতিক বিনিময়, সাংস্কৃতিক সম্পদৰ সংৰক্ষণ, গোলকীকৰণ আদি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীসকলে এই পাঠ্যক্ৰমৰ জৰিয়তে ধাৰণা লাভ কৰিব পাৰিব।
- অসমীয়া সাহিত্যৰ মূল জননীস্বৰূপ সংস্কৃত সাহিত্যৰ ইতিহাস, বিকাশ, লক্ষণ আৰু প্ৰকাৰ সম্পৰ্কে এই পাঠাক্ৰমৰ জৰিয়তে ছাত্ৰ-ছাত্ৰীয়ে জানিব পাৰিব।
- অসমীয়া কবিতাৰ ৰোমান্টিক আৰু আধুনিক ৰূপৰ বিষয়ে প্ৰতিনিধিত্বমূলক কেইজনমান কবিৰ কবিতাৰ আধাৰত ছাত্ৰ-ছাত্ৰীসকলে ধাৰণা লাভ কৰিব। তদুপৰি অসমীয়া গদ্যৰ বিকাশমান ৰূপৰ বিষয়ে ধাৰণা লাভ কৰাৰ ক্ষেত্ৰতো এই পাঠ্যক্ৰমে ছাত্ৰ-ছাত্ৰীক সহায় কৰিব।
- ভাৰতীয় সাহিত্য সমালোচনাৰ বিভিন্ন দিশ, যেনেঃ শব্দশক্তি, ধ্বনি, বক্ৰোক্তি, ৰস, গুণ আৰু ৰীতি সম্পৰ্কীয় ধাৰণাৰ লগতে মধ্যযুগৰ ভাৰতীয় ভক্তিবাদী আলংকাৰিকসকলৰ সমালোচনাৰীতিৰ বিষয়ে ধাৰণা লাভ কৰাত এই পাঠ্যক্ৰমে সহায় কৰিব।

- এই পাঠ্যক্রমৰ জৰিয়তে ছাত্ৰ-ছাত্ৰসকলে অনুবাদৰ তাত্ত্বিক আৰু প্ৰায়োগিক বিবিধ দিশৰ বিষয়ে জানিব পাৰিব।
- অসমীয়া ভাষাৰ বিবিধ ৰূপ তথা ইয়াৰ সামাজিক তথা নৃগোষ্ঠীগত পৰিপ্ৰেক্ষা সম্পৰ্কীয় ধাৰণা লাভৰ ক্ষেত্ৰতো এই পাঠ্যক্রমে সহায় কৰিব পাৰে।
- পাঠ-সমীক্ষাৰ ধাৰণা, ইয়াৰ লক্ষ্য আৰু উদ্দেশ্য, পাঠ-সমীক্ষাৰ ইতিহাস, অসমৰ প্ৰাচীন লিখিত নিদৰ্শনসমূহৰ পাঠোদ্ধাৰৰ ক্ষেত্ৰত ইয়াৰ প্ৰায়োগিক উপযোগিতা তথা গুৰুত্ব অনুধাৱনৰ ক্ষেত্ৰত এই পাঠ্যক্রমে ছাত্ৰ-ছাত্ৰীক সহায় কৰিব।
- ভাষাবিজ্ঞানলব্ধ তাত্ত্বিক জ্ঞানক মানৱ সমাজৰ উপকাৰ সাধিব পৰাকৈ ব্যৱহাৰিক ক্ষেত্ৰত প্ৰয়োগৰ যি ধাৰণা প্ৰয়োগভাষাবিজ্ঞানে প্ৰদান কৰিছে, সেই ধাৰণাৰ ভিত্তিত কম্পিউটাৰগত ভাষাবিজ্ঞান, বাক্-বিশ্লেষণ, অভিধানতত্ত্ব আৰু ভাষাশিক্ষণত ইয়াৰ প্ৰায়োগিক বিবিধ দিশৰ জ্ঞান আহৰণত এই পাঠ্যক্রমৰ ভূমিকা আছে। অৰ্থাৎ ভাষাবিজ্ঞানৰ ব্যৱহাৰিক জ্ঞান লাভৰ ক্ষেত্ৰত এই পাঠ্যক্রমে ছাত্ৰ-ছাত্ৰীক সহায় কৰিব পাৰে।
- অসমীয়া চুটিগল্পৰ সামগ্ৰিক গতি-প্ৰকৃতি, ইয়াৰ বিবিধ ধাৰা তথা আৰম্ভণি কালৰ পৰা বৰ্তমান পৰ্যন্ত ইয়াৰ বিচিত্ৰ ৰূপৰ সৈতে পৰিচয় লাভ কৰাৰ ক্ষেত্ৰত এই পাঠ্যক্রমৰ গুৰুত্ব আছে।
- অসমীয়া সাহিত্য-সমালোচনাৰ ক্ষেত্ৰত বিশেষ ভূমিকা গ্ৰহণ কৰি অহা কেইজনমান বিশিষ্ট সাহিত্য-সমালোচকৰ নিৰ্বাচিত কেইটিমান পাঠৰ আধাৰত অসমীয়া সাহিত্য-সমালোচনাৰ স্বৰূপ উপলব্ধিত এই পাঠ্যক্রমে ছাত্ৰ-ছাত্ৰীক সহায় কৰিব।

স্নাতকোত্তৰ মহলাৰ পাঠ্যক্রম সম্পৰ্কীয় ফলাফল (outcome)–

ষাণ্মাসিক	কাকত-নম্বৰ	কাকতৰ শিৰোনাম	পাঠ্যক্রম সম্পৰ্কীয় ফলাফল (outcome)
১ম	ASM-1016	অসমীয়া ভাষাৰ উত্থান আৰু বিকাশ	➢ ভাৰতৰ আঞ্চলিক ভাষাসমূহৰ উত্থান, মৌখিক আৰু লিখিত সাহিত্যিক ভাষা, ভাষা আৰু ধৰ্ম, ৰাজনীতি আৰু ভাষা, উদ্ভৱকালীন অসমীয়া সাহিত্যৰ ভাষাঃ অনুশাসন, চৰ্যাপদ ➢ সাহিত্যিক ভাষা হিচাপে অসমীয়া ভাষা; ৰাজকীয় পৃষ্ঠপোষকতা, অসমীয়া ভাষাত পুৰাণৰ পুনৰ্সৃষ্টি প্ৰাচীন অসমীয়া কাব্যৰ পাঠ্যঃ হেম সৰস্বতীৰ প্ৰহ্লাদ চৰিত আৰু মাধৱ কন্দলিৰ ৰামায়ণ ➢ সাংস্কৃতিক আৰু ভাষিক সংযোগ; ব্ৰজাৱলীৰ উত্থান; মধ্যযুগীয় অসমীয়া গদ্যঃ বুৰঞ্জী পুথি আৰু চৰিত পুথিৰ ভাষা ➢ ঔপনিৱেশিকতাবাদ আৰু আধুনিক অসমীয়া ভাষাঃ আধুনিক অসমীয়া ভাষাৰ নিৰ্মাণ, মিছনেৰী আৰু অসমীয়া বুদ্ধিজীৱীসকলৰ

			ভূমিকা, ছপা মাধ্যম আৰু ভাষা; অসমীয়া ভাষাৰ মান্যীকৰণ
	ASM-1026	অসমীয়া সাহিত্যৰ বুৰঞ্জী	➢ মফিজুদ্দিন আহমদ হাজৰিকাৰ কবিতাৰ প্রধান বৈশিষ্ট্য ভবানন্দ দত্তৰ কবিতা-সমালোচনাৰ প্রধান বৈশিষ্ট্য ভবেন বৰুৱাৰ কবিতাৰ প্রধান বৈশিষ্ট্য জ্ঞান পূজাৰীৰ কবিতাৰ প্রধান বৈশিষ্ট্য ➢ নকুল চন্দ্র ভূঞাৰ নাটকৰ প্রধান বৈশিষ্ট্য অতুল চন্দ্র হাজৰিকাৰ নাটকৰ প্রধান বৈশিষ্ট্য হিমেন্দ্র কুমাৰ বৰঠাকুৰৰ নাটকৰ প্রধান বৈশিষ্ট্য ➢ দণ্ডিনাথ কলিতাৰ উপন্যাসৰ প্রধান বৈশিষ্ট্য উমাকান্ত শর্মাৰ উপন্যাসৰ প্রধান বৈশিষ্ট্য য়েছে দৰজে ঠংচিৰ উপন্যাসৰ প্রধান বৈশিষ্ট্য অৰূপা পটংগীয়া কলিতাৰ উপন্যাসৰ প্রধান বৈশিষ্ট্য ➢ ৰমা দাশৰ চুটিগল্পৰ প্রধান বৈশিষ্ট্য বীৰেন্দ্র কুমাৰ ভট্টাচার্যৰ চুটিগল্পৰ প্রধান বৈশিষ্ট্য শীলভদ্রৰ চুটিগল্পৰ প্রধান বৈশিষ্ট্য বিপুল খাটনিয়াৰৰ চুটিগল্পৰ প্রধান বৈশিষ্ট্য
	ASM-1036		➢ সংস্কৃতিৰ সংজ্ঞা, শ্রেণীবিভাগ, সংস্কৃতিৰ পৰিসৰ (অসমৰ বিশেষ প্রসংগেৰে) ➢ প্রাচীন অসমৰ সংস্কৃতি (প্রাগ্-ঐতিহাসিক যুগৰপৰা দশম শতিকালৈ) অসমৰ মানুহ আৰু তেওঁলোকৰ নৃগোষ্ঠীয় গোট, স্থাপত্য, ভাস্কর্য, অভিলেখ, ধর্ম (যাদু সম্পর্কীয় ধর্মীয় বিশ্বাস, কৈৰাতজ ধর্মমত) আৰু পৰম্পৰা ➢ মধ্যযুগৰ অসমৰ সংস্কৃতি (একাদশ শতিকাৰ পৰা বর্তমান সময়লৈ) মধ্যযুগৰ অসমৰ ধর্মীয় ইতিহাস ধর্মীয় অনুষ্ঠানঃ মন্দিৰ, বৌদ্ধ-বিহাৰ, সত্র, নামঘৰ, মছজিদ, পীৰ-দৰগাহ, কলা, শিল্পকলা, স্থাপত্য আৰু সংগীত ➢ আধুনিক যুগৰ অসমৰ সমাজৰ সংস্কৃতি (ঊনবিংশ শতিকাৰ পৰা বর্তমান সময়লৈ) সামাজিক-সাংস্কৃতিক অনুষ্ঠান আৰু সংগঠন, সংস্কৃতিৰ সমন্বয়, সমাহৰণ, অনার্যীকৰণ, সাংস্কৃতিক বিনিময়, সাংস্কৃতিক সম্পদৰ

			সংৰক্ষণ আৰু গোলকীকৰণ
	ASM-1046	সংস্কৃত সাহিত্যৰ ইতিহাস, বিকাশ আৰু লক্ষণ	➢ পদ্যঃ মহাকাব্য আৰু খণ্ডকাব্য, সংজ্ঞা, উদ্ভৱ, বিকাশ, লক্ষণ ➢ নাটক আৰু চম্পূঃ উদ্ভৱ আৰু বিকাশৰ সূত্ৰ, বিভাগ, কালানুক্ৰমিক ইতিহাস ➢ গদ্যঃ লক্ষণ, বৈশিষ্ট্য, গদ্যকাব্যৰ ধাৰাবাহিক ইতিহাস ➢ অসমত ৰচিত সংস্কৃত সাহিত্যকৃতি প্ৰাক্-শংকৰদেৱ, শংকৰদেৱ, উত্তৰ-শংকৰদেৱ কালৰ সংস্কৃত ৰচনাৱলীৰ পৰিচয় আৰু কালানুক্ৰমিক ইতিহাস আৰু বৈশিষ্ট্য
	ASM-1054	সৃষ্টিশীল সাহিত্য (গুণমান বৰ্দ্ধক পাঠ্য)	➢ অনুকৰণ কল্পনা কবিতা, নাটক আৰু উপন্যাসৰ আংগিক ➢ কবিতা, নাটক আৰু উপন্যাসৰ ধাৰা আধুনিক কবিতা আৰু আধুনিক উপন্যাসৰ ভাষা ➢ প্ৰদৰ্শন (পৰম্পৰাগত আৰু পৰীক্ষামূলক) ব্যৱহাৰিক লেখনি ➢ প্ৰকল্প
২য়	ASM-2016	অসমীয়া কবিতাঃ ১৮৮৯-২০১৫	➢ ৰোমান্টিক কবিতা (প্ৰথম তৰংগ) অজেয়ঃ চন্দ্ৰকুমাৰ আগৰৱালা পুৱাঃ হেমচন্দ্ৰ গোস্বামী মালতীঃ লক্ষ্মীনাথ বেজবৰুৱা ➢ ৰোমান্টিক কবিতা (দ্বিতীয় তৰংগ) গিৰিমল্লিকাঃ ৰঘুনাথ চৌধাৰী মোৰ বীণাঃ অম্বিকাগিৰি ৰায়চৌধুৰী অপ্ৰকাশঃ দেৱকান্ত বৰুৱা ➢ আধুনিক কবিতা (প্ৰথম তৰংগ) পোহৰতকৈ এন্ধাৰ ভাল—হেম বৰুৱা সম্ৰাটৰ পৰাঃ নৱকান্ত বৰুৱা দুখৰ কবিতাঃ অজিৎ বৰুৱা ওলমি থকা গোলাপী জামুৰ লগ্নঃ নীলমণি ফুকন ➢ আধুনিক কবিতা (দ্বিতীয় তৰংগ) ছয়াময়াঃ হীৰেন্দ্ৰ নাথ দত্ত আই তোৰ আন্ধাৰৰ হাতখন ভাঙি দিলোঁ—আনিজ উজ্ জামান মোৰ প্ৰতিটো দিন আৰু প্ৰতিটো ৰাতিৰ আৰম্ভণিঃ সমীৰ তাঁতী চিহ্নযাত্ৰাৰ কেইটিমান জলমগ্ন দৃশ্যঃ অনুভৱ

			তুলসী ওৱাহাটীঃ নীলিম কুমাৰ
	ASM-2026	অসমীয়া গদ্য	➢ অসম দেশৰ সংক্ষেপ কথাঃ আনন্দৰাম ঢেকিয়াল ফুকন বিদ্যা আৰু গিয়ান লাভৰ ফল কি?—নিধিলিবাই ফাৰৱেল মনোবৃত্তিঃ ৰত্নেশ্বৰ মহন্ত ➢ মোৰ জীৱন সোঁৱৰণঃ লক্ষ্মীনাথ বেজবৰুৱা (অধ্যায় ১ আৰু ২) বৰ লোকৰ চৰিত্ৰ অধ্যয়নঃ সত্যনাথ বৰা শংকৰদেৱ আৰু চৈতন্যদেৱঃ কালিৰাম মেধি ➢ সৌন্দর্যৰ প্রতাৰণাঃ বাণীকান্ত কাকতি বিশ্ব সাহিত্যৰ পটভূমিত অসমীয়া সাহিত্যঃ কৃষ্ণকান্ত সন্দিকৈ প্রাচীন আৰু আধুনিক সাহিত্যঃ ত্রৈলোক্যনাথ গোস্বামী ➢ সমাজ, কৃষি আৰু গাঁৱৰ ইতিবৃত্তঃ অতুল চন্দ্র বৰুৱা মহান ঔপন্যাসিক বিৰিঞ্চি কুমাৰ বৰুৱাঃ হীৰেন গোঁহাই অসমীয়া চুটিগল্প (১৯৪০-১৯৭০)—হোমেন বৰগোহাঞি
	ASM-2036	অসমীয়া নাটক আৰু পৰিৱেশন কলা	➢ অসমীয়া নাটকৰ গতি-প্রকৃতিঃ ১৮৫৭-২০১৫ (অপেছাদাৰী, ভ্রাম্যমান আৰু অনাতাঁৰ নাটকৰ বিশেষ উল্লিখনসহ) ➢ ৰুদ্রৰাম বৰদলৈঃ বঙাল বঙালনী পদ্মনাথ গোহাঞিবৰুৱাঃ গাঁওবুঢ়া লক্ষ্মীনাথ বেজবৰুৱাঃ চক্রধ্বজ সিংহ জ্যোতিপ্রসাদ আগৰৱালাঃ কাৱেঙৰ লিগিৰী ➢ মহেন্দ্র বৰঠাকুৰঃ শৰাগুৰি চাপৰি অৰুণ শর্মাঃ শ্রীনিবাৰণ ভট্টাচার্য কৰুণা ডেকাঃ লুইতকন্যা ➢ অসমৰ প্রচেনিয়াম ৰংগমঞ্চ অসমীয়া নাটকত ৰেখটৰ প্রভাৱ অসমৰ শেহতীয়া পৰীক্ষামূলক ৰঙ্গমঞ্চ
	ASM-2046	ভাৰতীয় সাহিত্য সমালোচনা	➢ শব্দশক্তি (শব্দ আৰু অর্থ; শব্দৰ শক্তি) ধ্বনিঃ ধাৰণা, বিৱর্তন আৰু প্রয়োগ বক্রোক্তিঃ ধাৰণা আৰু প্রয়োগ ➢ ৰসঃ ধাৰণা, বিৱর্তন আৰু প্রয়োগ গুণ আৰু ৰীতিঃ ধাৰণা আৰু প্রয়োগ

			➢ মধ্যযুগৰ ভাৰতীয় ভক্তিবাদী আলংকাৰিকসকল ➢ দেশীবাদ পশ্চিমীয়া দেশীবাদী ধাৰণা, ভাৰতীয় দেশীবাদী ধাৰণাৰ আৰম্ভ, বিকাশ আৰু বৈশিষ্ট্য
	ASM-2054	সম্পাদনা (গুণমান বৰ্দ্ধক পাঠ্য)	➢ গ্ৰন্থ সম্পাদনাৰ উদ্দেশ্য আৰু দৰ্শন সাধাৰণ গ্ৰন্থ-সম্পাদনা ভাৰতবৰ্ষৰ গ্ৰন্থ-ইতিহাসঃ অসমৰ বিশেষ উল্লিখনসহ গ্ৰন্থ সম্পাদনাৰ আৰম্ভণি ➢ পাণ্ডুলিপি সংগ্ৰহ আৰু মূল্যায়ন ➢ প্ৰতিলিপি সম্পাদনা গ্ৰন্থ প্ৰস্তুতকৰণ শৈলী আৰ্হিপাঠ উৎপাদন আৰু মুদ্ৰণ ➢ সম্পাদনাৰ সৈতে প্ৰকাশনৰ অন্যান্য শাখাৰ সম্বন্ধ
৩য়	ASM-3016	অসমীয়া উপন্যাস	➢ অসমীয়া উপন্যাসৰ ধাৰা ➢ ৰজনীকান্ত বৰদলৈঃ ৰহদৈ লিগিৰী ৰাম্না বৰুৱাঃ সেউজী পাতৰ কাহিনী মেদিনী চৌধুৰীঃ বগুকা বেহাৰ ➢ দেবেন্দ্ৰনাথ আচাৰ্যঃ জংগম মামণি ৰয়ছম গোস্বামীঃ নীলকণ্ঠী ব্ৰজ হোমেন বৰগোহাঞিঃ পিতাপুত্ৰ ➢ ভূপেন্দ্ৰনাৰায়ণ ভট্টাচাৰ্যঃ মৰূদ্যান দেৱব্ৰত দাসঃ ধূসৰতাৰ কাব্য
	ASM-3026	অনুবাদ তত্ত্ব আৰু প্ৰয়োগ	➢ অনুবাদৰ ভাষাবৈজ্ঞানিক প্ৰসংগঃ ৰোমান য়াকবচনৰ 'On Linguistic Aspects of Translation' শীৰ্ষক ৰচনাৰ বিশেষ উল্লিখনসহ (Lawrence Venutiৰ Translation Studies Reader গ্ৰন্থত অন্তৰ্ভুক্ত) ➢ অনুবাদৰ সাংস্কৃতিক প্ৰসংগ, অনুবাদ আৰু জাতীয়তাবাদঃ কৃষ্ণকান্ত সন্দিকৈৰ 'অনুবাদৰ কথা' (যতীন্দ্ৰনাথ গোস্বামীৰ দ্বাৰা সম্পাদিত কৃষ্ণকান্ত সন্দিকৈ ৰচনা সম্ভাৰ গ্ৰন্থত অন্তৰ্ভুক্ত) ➢ অনুবাদৰ সমৰূপতা, অনুবাদৰ হানি আৰু প্ৰাপ্তি, বিশ্বাসযোগ্য অনুবাদ, আক্ষৰিক অনুবাদ, অৰ্থগত অনুবাদ, ফকৰা যোজনাৰ অনুবাদ, বৈজ্ঞানিক আৰু সাহিত্যিক পাঠৰ অনুবাদ, পুনৰ্সৃষ্টি অভিযোজনা, এপৰ মাধ্যমেৰে

			অনুবাদ, অভিযোজনাৰ অধ্যয়ন আৰু বিশ্লেষণ (এটা মাধ্যমৰ পাঠ আন এটা মাধ্যমলৈ অভিযোজিত হওঁতে উদ্ভৱ হোৱা পৰিৱৰ্তনৰ বিশ্লেষণ)ঃ ভবেন্দ্রনাথ শইকীয়াৰ 'অগ্নিস্নান'ৰ চিত্রনাট্য (অগ্নিস্নান, সম্পাঃ উৎপল দত্ত) ➢ অনূদিত কার্যৰ অধ্যয়ন/ বিশ্লেষণ (অনুবাদৰ মানৰ পৰীক্ষা)ঃ অনুমোদিত পাঠঃ ➢ বীৰেন্দ্র কুমাৰ ভট্টাচার্যৰ 'মৃত্যুঞ্জয়'ৰ সৈতে ধীৰেন্দ্র নাথ বেজবৰুৱাই কৰা ইংৰাজী অনুবাদৰ তুলনা হীৰেন ভট্টাচার্যৰ কবিতাৰ সৈতে প্রদীপ আচার্যই কৰা ইংৰাজী অনুবাদ Ancient Gong–ৰ তুলনা ➢ মোহন ৰাকেশৰ 'আষাড় কা এক দিন'ৰ সৈতে নীৰাজনা মহন্ত বেজবৰাই কৰা অসমীয়া অনুবাদ 'আহাৰ মাহৰ এদিন'ৰ তুলনা শ্রেণীকোঠাত শিক্ষকে নির্দেশ কৰা ধৰণে সাহিত্যিক পাঠ (যেনে—কবিতা, চুটিগল্প আৰু অন্যান্য) আৰু অনা-সাহিত্যিক পাঠ (যেনে—বিজ্ঞপ্তি আৰু বিজ্ঞাপন)ৰ অনুবাদ সম্পর্কীয় ক্ষুদ্র প্রকল্প। এই প্রকল্পক ১০ নম্বৰৰ গৃহকার্য বুলি বিবেচনা কৰা হ'ব।
	ASM-3066	অসমীয়া ভাষাৰ ভিন্নতা	➢ উপভাষা বিজ্ঞানঃ উপভাষা সীমা নির্দ্ধাৰক, দ্বিপার্শ্বিকতা, উপভাষা ভূগোলঃ আঞ্চলিক উপভাষা অধ্যয়নৰ পদ্ধতি; অসমীয়া ভাষাৰ আঞ্চলিক ভিন্নতাঃ উজনি অসম, দৰঙী, মৰিগ্রা; নামনি অসম (কামৰূপীয়া, গোৱালপৰীয়া) ➢ সামাজিক ভিন্নতাঃ সামাজিক উপভাষা অধ্যয়নৰ পদ্ধতি, অসমীয়া ভাষাৰ সামাজিক ভিন্নতাঃ কৈৱর্ত আৰু মৰিয়াসকলৰ ভাষা ➢ নৃগোষ্ঠীয় ভিন্নতাঃ নৃগোষ্ঠীয়তা আৰু সামাজিক ভিন্নতা, নৃগোষ্ঠীয় উপভাষা অধ্যয়নৰ পদ্ধতি, অসমীয়া ভাষাৰ নৃগোষ্ঠীয় ভিন্নতাঃ ৰাভামিজ, মিচিং-অসমীয়া আৰু হাজং-অসমীয়া ➢ সমকালীন অসমীয়া ভাষাঃ ছপা আৰু বৈদ্যুতিন মাধ্যম
	ASM-3096	অসমীয়া বৈষ্ণৱ, শৈৱ আৰু শাক্ত সাহিত্য	➢ অসমৰ বিশেষ প্রসংগেৰে ভাৰতীয় বৈষ্ণৱ আন্দোলনৰ ইতিহাস, দর্শন আৰু প্রেক্ষাপট ➢ ভক্তিবাদ আৰু অসমৰ বৈষ্ণৱ ভক্তি সাহিত্য

			অনুমোদিত গ্রন্থঃ শংকৰদেৱৰ ‘কীর্তনঘোষা’ মাধৱদেৱৰ ‘নামঘোষা’ ➢ শৈৱধর্মৰ পৰিচয়, অসমত শৈৱধর্মৰ ইতিহাস আৰু অসমত শৈৱ সাহিত্য অনুমোদিত গ্রন্থঃ ৰুদ্রসিংহৰ ‘শিৱপুৰাণ’ ➢ শক্তিবাদৰ স্বৰূপ, বৈশিষ্ট্য, অসমত শক্তিবাদৰ ইতিহাস আৰু অসমীয়া শাক্ত সাহিত্য অনুমোদিত গ্রন্থঃ ৰুচিনাথ কন্দলীৰ ‘শ্রীশ্রী চণ্ডী’
৪র্থ	ASM-4016	পাঠ-সমীক্ষা আৰু লিপি অধ্যয়ন	➢ পাঠ-সমীক্ষাৰ পৰিচয়, সংজ্ঞা, লক্ষ্য আৰু উদ্দেশ্য ➢ পাঠ-সমীক্ষাৰ তত্ত্ব আৰু প্রয়োগ ➢ অসমত পাঠ-সমীক্ষাৰ ইতিহাস ➢ হাতেলিখা পুথিঃ স্বৰূপ, লক্ষণ আৰু বৈশিষ্ট্য অসমৰ সচিত্র পুথিৰ পৰিচয় আৰু বিৱৰণ হাতে লিখা পুথিৰ পঠন অসমীয়া লিপিৰ ইতিহাস আৰু বিকাশ
	ASM-4026	প্রয়োগ ভাষাবিজ্ঞান	➢ কম্পিউটাৰগত ভাষাবিজ্ঞানঃ স্বাভাৱিক ভাষা প্রক্রিয়াঃ পাঠত ব্যৱহৃত শব্দৰ সহাৱস্থান বিশ্লেষণ; প্রসংগ নিৰপেক্ষ ব্যাকৰণ আৰু পদচ্ছেদন ➢ বাক্ বিশ্লেষণঃ বাগ্ ধাৰাৰ গঠন; কথন বিশ্লেষণ; কথোপথন বিশ্লেষণ ➢ অভিধানতত্ত্বঃ অভিধানৰ বিশ্লেষণঃ শব্দৰ মাজৰ সম্বন্ধ, শব্দকোষৰ স্তৰ, শাব্দিক ঋণ, শাব্দিক মান, ভাষিক শুদ্ধতা; অভিধানৰ প্রকাৰভেদ আৰু অভিধানতাত্ত্বিক আর্হিৰ বিভিন্ন প্রকাৰ, বৈদ্যুতিন অভিধান, অভিধানতাত্ত্বিক প্রবিষ্টিৰ অংশ, অভিধানৰ অনুগাঁথনি আৰু বৃহৎ গাঁথনি ➢ প্রথম ভাষা আৰু দ্বিতীয় ভাষা শিক্ষণত ভাষাবৈজ্ঞানিক জ্ঞানৰ প্রয়োগ; শিক্ষণ পদ্ধতিঃ প্রথম ভাষা আৰু দ্বিতীয় ভাষা শিক্ষণৰ পার্থক্য; ভাষা শিক্ষণৰ পদ্ধতি, ভাষা-শিক্ষণত বর্ণনাত্মক ভাষাবিজ্ঞান, সমাজ ভাষাবিজ্ঞান আৰু মনঃস্তাত্ত্বিক ভাষাবিজ্ঞানৰ জ্ঞানৰ প্রয়োগ
	ASM-4046	অসমীয়া চুটিগল্পঃ ১৮৯২-২০১৫	➢ অসমীয়া চুটিগল্পৰ ধাৰা নির্বাচিত পাঠঃ লক্ষ্মীনাথ বেজবৰুৱাঃ জয়ন্তী (আধুনিক অসমীয়া গল্প সংকলন, সম্পাঃ ত্রৈলোক্যনাথ গোস্বামী)

			লক্ষ্মীধৰ শর্মাঃ ব্যর্থতাৰ দান (অসমীয়া গল্প সংকলন, প্ৰথম খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) চৈয়দ আব্দুল মালিকঃ প্ৰাণ পোৱাৰ পিছত (অসমীয়া গল্প সংকলনঃ ২য় খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) ➢ সৌৰভ কুমাৰ চলিহাঃ এহাত ডাবা (অসমীয়া চুটিগল্পৰ প্ৰবাহ, সম্পাঃ লীলাৱতী শইকীয়া বৰা) মহিম বৰাঃ চক্ৰবৎ (আধুনিক অসমীয়া গল্প সংকলন, সম্পাঃ ত্ৰৈলোক্যনাথ গোস্বামী) ভবেন্দ্রনাথ শইকীয়াঃ গ্ৰহণ (অসমীয়া গল্প সংকলনঃ ২য় খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) নিৰুপমা বৰগোহাঞিঃ এনথ্ৰোপলজিৰ সপোনৰ পিছত (গল্পমঞ্জৰী, সম্পাঃ শৈলেন ভৰালী) ➢ নগেন শইকীয়াঃ বন্ধ কোঠাত ধুমুহা (অসমীয়া গল্প সংকলনঃ ২য় খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) প্ৰণৱজ্যোতি ডেকাঃ বেওৰাৰিছ লাচ (অসমীয়া গল্প সংকলনঃ ২য় খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) অপূর্ব শর্মাঃ বাঘে টাপুৰ ৰাতি (অসমীয়া গল্প সংকলনঃ ৩য় খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি) ➢ জেহিৰুল ইছলামঃ ৰাং কুকুৰৰ টুপী (গ্ৰন্থঃ ৰাং কুকুৰৰ টুপী) মনোজ কুমাৰ গোস্বামীঃ নির্বাক্ষৰ (গ্ৰন্থঃ এলুমিনিয়ামৰ আঙুলি)
	ASM-4096	অসমীয়া সমালোচনা	➢ অসমীয়া সমালোচনাৰ ইতিহাস আৰু ধাৰা ‘দহিকতৰা’ঃ বাণীকান্ত কাকতি (বাণীকান্ত কাকতি ৰচনাৱলী, সম্পাঃ মহেশ্বৰ নেওগ) ৰাহস্যিক মাধৱদেৱঃ তীর্থনাথ শর্মা (পঞ্চপুষ্পঃ তীর্থনাথ শর্মা) ➢ বিৰিঞ্চি কুমাৰ বৰুৱাঃ অংকীয়া নাটৰ পাতনি (অংকীয়া নাট) সত্যেন্দ্রনাথ শর্মাঃ আধুনিক কাব্যৰ উন্মেষ (অসমীয়া কাহিনী কাব্যৰ প্ৰবাহ) ➢ ঐতিহ্য আৰু জীৱনৰ বাটতঃ হীৰেন গোহাঁই (হীৰেন গোহাঁই ৰচনাৱলী, ১ম খণ্ড, সম্পাঃ শোণিত বিজয় দাস, মুনীন বায়ন)

			জেংৰাই ১৯৬৩ঃ ভবেন বৰুৱা (অসমীয়া কবিতাঃ ৰূপান্তৰৰ পর্ব) ➢ শৈলেন ভৰালীঃ সমালোচক বাণীকান্ত কাকতি (মাধৱ কন্দলিৰপৰা মামণি গোস্বামীলৈ) গোবিন্দ প্রসাদ শর্মাঃ আন্দ্রে মাৰিচঁৰ এৰিয়েলঃ এখন নতুন জীৱনীৰ ৰসাস্বাদন (জীৱনী আৰু অসমীয়া জীৱনী) ৰঞ্জিৎ কুমাৰ দেৱগোস্বামীঃ হৰমোহনৰ সামাজিক তাৎপর্য (প্রবন্ধঃ ৰঞ্জিৎ কুমাৰ দেৱগোস্বামী) প্রদীপ আচার্যঃ অসমীয়া কবিতাৰ কুৰিটা বছৰ (অসমীয়া সাহিত্যৰ বুৰঞ্জী, ৬ষ্ঠ খণ্ড, সম্পাঃ হোমেন বৰগোহাঞি)

SUBJECT: ANTHROPOLOGY

PROGRAMME SPECIFIC OUTCOME

Old course (non-CBCS):

Sl. No.	Paper code and name	Course outcome
	Major	
1	M-101- General Anthropology	Students will learn about the basic concept of Anthropology along with relevance of Anthropology.
2	M-102- Physical Anthropology	Students will learn about the modern trend of Physical Anthropology.
3	M-103- Physical Anthropology (Practical)	Students will gather practical knowledge about osteology.
4	M-201- Prehistoric Anthropology	Students will learn basic concept of prehistory and lithic technology.
5	M-202- Social and Cultural Anthropology	Students will learn basic concept of Socio-cultural Anthropology and culture.
6	M-203- Physical Anthropology (Practical)	Students will gather practical knowledge about the somatoscopy and somatometry.
7	M-301- Physical Anthropology	Students will learn about the evolutionary changes of human being, elementary genetics and race.
8	M-302- Social Anthropology	Students will learn about the social system like marriage, family, kinship system, property etc.
9	M-303- Prehistoric Anthropology (Practical)	Students will gather practical knowledge about the basic concept of prehistoric technology.
10	M-401- Prehistoric Anthropology	Students will learn about the prehistoric tool typology.
11	M-402- Social Anthropology	Students will learn about the theoretical perspectives of culture and economy.
12	M-403- Prehistoric Anthropology (Practical)	Students will gather practical knowledge about the prehistoric tools typology.
13	M-501- Physical Anthropology	Students will learn about the theoretical perspectives of human evolution.
14	M-502- Prehistoric Anthropology	Students will learn about the methods and principles of prehistory along with hominid cultural development in Europe and Asia.
15	M-503- Social Anthropology	Students will learn about the Indian Anthropology and Anthropology of Religion.
16	M-504- Social Anthropology	Students will learn about the Field methodology and Tribes of North East India.
17	M-505- Physical Anthropology (Practical)	Students will gather practical knowledge about the comparative anatomy, dermatoglyphics and Physiological Anthropology
18	M-506- Prehistoric and	Students will gather practical knowledge about the

	Social Anthropology (Practical)	prehistoric tool types, pottery, museum methods and field methods
19	M-601- Physical Anthropology	Students will learn about the human genetics in details.
20	M-602- Prehistoric Anthropology	Students will learn about the methods and principles of Prehistoric Anthropology, and hominid cultural development in India.
21	M-603- Social Anthropology	Students will learn about the Indian Anthropology and Indian Society.
22	M-604- Applied Anthropology	Students will learn about the applied aspects of Physical and Social Anthropology.
23	M-605- Physical Anthropology (Practical)	Students will gather practical knowledge about the Craniometry and Serology.
24	M-606- Social Anthropology (Practical)	Students will gather practical knowledge about the technology and field methods of Social Anthropology.
General		
1	E-101-Foundations of General and Social &Cultural Anthropology	Students will gather knowledge about the Foundations of General and Social &Cultural Anthropology
2	E-201-Physical Anthropology & Prehistoric Anthropology	Students will gather basic knowledge on Physical Anthropology & Prehistoric Anthropology.
3	E-301- Social Anthropology	Students will learn about the social institutions, and culture and social change.
4	E-302-Physical & Prehistory (Practical)	Students will gather practical knowledge on human osteology and prehistoric tools.
5	E-401-Physical Anthropology & Prehistoric Anthropology	Students will learn about the basic human genetics, human evolution, and prehistoric cultures of Europe.
6	E-402-Physical and Prehistory (Practical)	Students will gather practical knowledge on somatoscopy and somatometry.
7	E-501-Social Anthropology	Students will learn about the religion and magic, Indian society, Tribal communities of North East India, and applied Social Anthropology.
8	E-502-Physical & Prehistory (Practical)	Students will gather practical knowledge on osteometry, craniometry and serology.
9	E-601-Physical Anthropology	Students will learn about the theories of human evolution and its evidences.
10	E-602-Practical	Students will gather practical knowledge about the technology, museum methos and field methods of Social Anthropology

New course (CBCS):

Sl. No.	Paper code and name	Course outcome
	Honours	
1	Semester I ANT-HC-1016 Introduction to Biological Anthropology	• Students will learn about the genesis and development of biological anthropology. • Learn about the aspects from which evolution and variation is studied.
2	ANT-HC-1026 Introduction to Socio-Cultural Anthropology	The basic theoretical knowledge about Social and Cultural Anthropology can be achieved. • The knowledge of first-hand field data collection and analysis can be gained.
3	Semester-II ANT-HC-2016 Archaeological Anthropology	• Student will be acquainted with archaeometrical background of prehistoric, protohistoric and historical evolution of human culture. • Students will have practical understanding of prehistoric culture through tool technology and pottery technology.
4	ANT-HC-2026 Fundamentals of Human Origin & Evolution	• Students will learn about the stages of human evolutionary development. • Will know about the fossil finds on the basis of which the evolutionary stages are identified.
5	Semester-III ANT-HC-3016 Tribes and Peasants in India	• The anthropological knowledge and approach to study of tribes, villages and peasantry can be gained. • The problems, prospects, development, and government policies for tribes, villages and peasants can be achieved.
6	ANT-HC-3026 Human Ecology: Biological & Cultural dimensions	• The knowledge on human adaptation in ecology will be gained. • The knowledge on urbanization and industrialization in human societies will be achieved.
7	ANT-HC-3036 Biological Diversity in Human Populations	• The students will learn about markers for understanding biological diversity. • Classical markers use for classifying races. • Classification of Indian population.
8	Semester-IV ANT-HC- 4016 Theories of Culture and Society	• The knowledge of the basic theories of culture in Anthropology can be gained. • The knowledge of the basic theories of society in Anthropology can be gained.
9	ANT-HC-4026 Human Growth and	• Students will learn about concepts related with growth and stages of growth.

	Development	• Students will learn biocultural factors that influence growth and development. • Students will learn human body composition.
10	ANT-HC-4036 Research Methods	• The knowledge on formulation of research design, application of methods and techniques in data collection will be obtained. • The ethics of research will be understood for an effective research study.
11	Semester-V ANT-HC-5016 Human Population Genetics	• Students will learn about mechanisms which create variation in gene frequencies. • Students will learn the method of assessing gene frequency variation. • Students will learn how ecological factors which help maintain gene frequencies.
12	ANT-HC-5026 Anthropology in Practice	• The knowledge of Applied Anthropology, Action Anthropology and Role of Anthropology in Development • Student will gain knowledge of recent trend of Anthropology.
13	Semester V ANT-HE-5016 Indian Archaeology	• The students will be familiar with the rich prehistoric past of the country. • The students will understand the prehistoric foundation on which the later course of history in the country developed.
14	ANT-HE-5026 Anthropology of Religion, Politics and Economy	• The knowledge on the anthropological theories of religion, economies and political institutions will be gained. • The knowledge on the interrelationship between religion, economies and political institutions will be achieved.
15	ANT-HE-5036 Paleoanthropology	• Student will be acquainted with archaeologicaland paleontological background of prehistoric period. • Students will have understanding of evolutionary biology and culture through fossilized evidences and bio-archeological approach.
16	Semester-VI ANT-HC-6016 Forensic Anthropology	• Students will learn about distinguishing human from non-human skeletal remains. • Students will learn about the techniques of making personal identification.
17	ANT-HC-6026 Anthropology of India	• The students will learn about racial linguistic and ethnic dimension of Indian society. • The students will be familiar with the anthropological situation of the country.
18	Semester-VI ANT-HE-6016 Dissertation	The knowledge of conducting fieldwork by applying anthropological methods will be gained. • The knowledge of data analysis and writing based on the collected data will be learned.

19	ANT-HE-6026 Human Genetics	• The students will learn about the structure and function human genome. • The students will learn how genomic variation is studied. • The students will learn about the genomic diversity and human evolution.
20	ANT-HE-6036 Demographic Anthropology	• Students will learn about the basics of demography and demographic theories. • Students will learn about the tools used for population change.
GENERIC ELECTIVE		
1	Semester I ANT- HG-1016 Introduction to Biological Anthropology	• Students will learn about the genesis and development of biological anthropology. • Learn about the aspects from which evolution and variation is studied.
2	Semester-II ANT-HG-2016 Introduction to Socio-Cultural Anthropology	• The basic theoretical knowledge about Social and Cultural Anthropology can be achieved. • The knowledge of first-hand field data collection and analysis can be gained.
3	Semester III ANT-HG-3016 Archaeological Anthropology	• Student will be acquainted with archaeometrical background of prehistoric, protohistoric and historical evolution of human culture. • Students will have practical understanding of prehistoric culture through tool technology and pottery technology.
4	ANT-HG-4016 Research Methods	• The knowledge on formulation of research design, application of methods and techniques in data collection will be obtained. • The ethics of research will be understood for an effective research study
5	ANT-HG-4026 Anthropology in Practice	• The knowledge of Applied Anthropology, Action Anthropology and Role of Anthropology in Development • Student will gain knowledge of recent trend of Anthropology.
6	ANT-HG-5016 Anthropology in Practice	• The knowledge of Applied Anthropology, Action Anthropology and Role of Anthropology in Development • Student will gain knowledge of recent trend of Anthropology.
7	ANT-HG-5026 Fundamentals of Human Origin & Evolution	• Students will learn about the stages of human evolutionary development. • Will know about the fossil finds on the basis of which the evolutionary stages are identified.
8	ANT-HG-6016 Human Ecology:	• The knowledge on human adaptation in ecology will be gained.

	Biological & Cultural dimensions	• The knowledge on urbanization and industrialization in human societies will be achieved.
9	ANT-HG - 6026 Anthropology of India	The students will learn about racial linguistic and ethnic dimension of Indian society. • The students will be familiar with the anthropological situation of the country.
Regular		
1	Semester I ANT-RC-1016 Introduction to Biological Anthropology	• Students will learn about the genesis and development of biological anthropology. • Learn about the aspects from which evolution and variation is studied.
2	Semester II ANT-RC-2016 Introduction to Socio-Cultural Anthropology	• The basic theoretical knowledge about Social and Cultural Anthropology can be achieved. • The knowledge of first-hand field data collection and analysis can be gained.
3	Semester III ANT-RC-3016 Archaeological Anthropology	• Student will be acquainted with archaeometrical background of prehistoric, protohistoric and historical evolution of human culture. • Students will have practical understanding of prehistoric culture through tool technology and pottery technology.
4	Semester IV ANT-RC-4016 Anthropology in Practice	• The knowledge of Applied Anthropology, Action Anthropology and Role of Anthropology in Development • Student will gain knowledge of recent trend of Anthropology
DISCIPLINE SPECIFIC ELECTIVE (DSE)		
1	Semester V ANTH-RE-5016 Anthropology of Religion, Politics and Economy	• The knowledge on the anthropological theories of religion, economies and political institutions will be gained. • The knowledge on the interrelationship between religion, economies and political institutions will be achieved.
2	ANT-RE-5026 Urban Anthropology	• The knowledge on the anthropological approach in peasants and rural areas, Different socio-political problems will be gained. • The knowledge on the urban inequality and class approach will be achieved.
3	ANT- RE-5036 Paleoanthropology	• Student will be acquainted with archaeologicaland paleontological background of prehistoric period. • Students will have understanding of evolutionary biology and culture through fossilized evidences and bio-archeological approach.

4	ANT-RE-6016 Demographic Anthropology	• Students will learn about the basics of demography and demographic theories. • Students will learn about the tools used for population change.
5	ANT-RE-6026 Dissertation	• The knowledge of conducting fieldwork by applying anthropological methods will be gained. • The knowledge of data analysis and writing based on the collected data will be learned.
GENERIC ELECTIVE		
1	Semester III ANT-SE-3014 Tourism Anthropology	• The students will learn about the socio-cultural background of developing tourism. • The students will learn the basics of eco-tourism and heritage tourism in the current situation.
2	IV Semester ANT-SE-4014 : Public Health and Epidemiology	The students will learn different aspects of health, diseases and principles of epidemiology
3	Semester V ANT-SE-5014 Media Anthropology	• Students will learn the theoretical basis of Media anthropology. • Students will learn about the different aspects of audio-visual media.
4	Semester VI ANT-SE-6014 Museum Method	• The student will acquire first hand knowledge of preservation, conservation (including preventives and curative measures) of objects of anthropological museum.

SUBJECT: ECONOMIC

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Economics syllabus prescribed by Gauhati University may be cited below:

1. The students will understand the all important economic behavior of individual economic unit.

2. The students will be able to know the macro-economic structure of an economy.

3. The students will be able to know how prices are set under different market structure.

4. The students will be able to learn the role of money and monetary policy in an economy

5. The students will be able to learn calculus and mathematics in Economics

6. The students will be able to learn the concept of economic development and growth.

7. The students will be able to learn the principles of public finance.

8. The students will be able to learn different statistical techniques used in Economics

9. The students will be able to learn principles of econometrics.

10. The students will be to learn the impact of economic activity on environment.

11. The students will be able to learn history of Economic thought.

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	ECO - HC – 1016	Introductory Microeconomics	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.
	ECO - HC – 1026	**MATHEMATICAL METHODS IN ECONOMICS–I**	This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook
II	ECO – HC– 2016	**INTRODUCTORY MACROECONOMICS**	This course aims to introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance ofpayments their reproductive stages.
	ECO – HC–	**MATHEMATICAL**	This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory,

	2026	**METHODS IN ECONOMICS - II**	macroeconomic theory, statistics and econometrics set out in this Syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook
III	ECO – HC– 3016	**INTERMEDIATE MICROECONOMICS - I**	The course is designed to provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.
	ECO – HC– 3026	**INTERMEDIATE MACROECONOMICS - I**	This course introduces the students to formal modelling of a macro-economy in terms of analytical tools. It Discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an openeconomy
	ECO – HC– 3036	**STATISTICAL METHODS FOR ECONOMICS**	This is a course on statistical methods for economics. It begins with some basic concepts and terminology that are fundamental to statistical analysis and inference. It then develops the notion of probability, followed by probability distributions of discrete and continuous random variables and of joint distributions. This is followed by a discussion on sampling techniques used to collect survey data. The course introduces the notion of sampling distributions that act as a bridge between probability theory and statistical inference. The semester concludes with

			some topics in statistical inference that include point and interval estimation.
	ECO-SE-3014	**Data Collection and Presentation**	This course helps students in understanding use of data, presentation of data using computer softwares like MS-Excel. Students will be involved practically to preparation of questionnaires/interview schedules, collection of both primary and secondary data and its presentation. Students will also be asked to prepare a report on collected data and will be evaluated accordingly.
IV	ECO – HC–4016	**INTERMEDIATE MICROECONOMICS - II**	This course is a sequel to Intermediate Microeconomics I. The emphasis will be on giving conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and topics under information economics.
	ECO – HC–4026	**INTERMEDIATE MACROECONOMICS - II**	This course is a sequel to Intermediate Macroeconomics I. In this course, the students are introduced to the long run dynamic issues like growth and technical progress. It also provides the micro-foundations to the various aggregative concepts used in the previous course.
	ECO – HC–4036	**INTRODUCTORY ECONOMETRICS**	This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.
	ECO-SE-4014	**Data Analysis**	This course discusses how data can be summarized and analysed for drawing statistical inferences. The students will be introduced to important data sources that are available and will also be trained in the use of statistical softwares like SPSS/PSPP to analyse data.
			Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, with particular

	ECO – HC– 5016	**INDIAN ECONOMY-I**	emphasis on paradigm shifts and turning points. Given the rapid changes taking place in India, the reading list will have to be updated annually.
	ECO – HC– 5026	**DEVELOPMENT ECONOMICS-I**	This is the first part of a two-part course on economic development. The course begins with a discussion of alternative conceptions of development and their justification. It then proceeds to aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality are explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.
V	ECO-HE-5016	**ECONOMICS OF HEALTH AND EDUCATION**	The importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases. This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.
	ECO - HE – 5026	**MONEY AND FINANCIAL MARKETS**	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.
			This course is a non-technical overview of government finances with special reference to India. The course does not require any prior knowledge of

	ECO - HE – 5036	**PUBLIC FINANCE**	economics. It will look into the efficiency and equity aspects of taxation of the centre, states and the local governments and the issues of fiscal federalism and decentralisation in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism
VI	ECO - HC – 6016	**INDIAN ECONOMY-II**	This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence. Given the rapid changes taking place in the country, the reading list will have to be updated annually.
	ECO – HC– 6026	**DEVELOPMENT ECONOMICS-II**	This is the second module of the economic development sequence. It begins with basic demographic concepts and their evolution during the process of development. The structure of markets and contracts is linked to the particular problems of enforcement experienced in poor countries. The governance of communities and organizations is studied and this is then linked to questions of sustainable growth. The course ends with reflections on the role of globalization and increased international dependence on the process of development.
	ECO-HE-6016	**ENVIRONMENTAL ECONOMICS**	This course focuses on economic causes of environmental problems. In particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments. Selected topics on international environmental problems are also discussed.

	ECO-HE-6026	**INTERNATIONAL ECONOMICS**	This course develops a systematic exposition of models that try to explain the composition, direction and consequences of international trade, and the determinants and effects of trade policy. It then builds on the models of open economy macroeconomics developed in courses 08 and 12, focusing on national policies as well as international monetary systems. It concludes with an analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. Although the course is based on abstract theoretical models, students will also be exposed to real-world examples and case studies.
	ECO-HE-6036	**THE ECONOMY OF ASSAM**	This course will provide students an idea of evolution of the Assam Economy from the colonial period to the contemporary time. The course is expected to help students to better appreciate the challenges and opportunities of the economy of Assam in the present context

Course Outcome BA (Generic/Regular)

Semester	Paper Code	Paper Title	Course Outcome
I	ECO-HG/RC-1016	**Principles of Microeconomics–I**	This course intends to expose the student to the basic principles in Microeconomic Theory and illustrate with applications.
II	ECO-HG/RC-2016	**Principles of Microeconomics–II**	This is a sequel to Principles of Microeconomics covered in the first semester
III	**ECO-HG/RC-3016**	**Principles of Macroeconomics–I**	This course introduces students to the basic concepts in Macroeconomics. Macroeconomics deals with the aggregate economy. In this course the students are introduced

			to the definition, measurement of the macroeconomic variables like GDP, consumption, savings, investment and balance of payments. The course also discusses various theories of determining GDP in the short run.
IV	**ECO-HG/RC-4016**	**Principles of Macroeconomics–II**	This is a sequel to Principles of Macroeconomics–I. It analyses various theories of determination of National Income in greater detail. It also introduces students to concept of inflation, its relationship with unemployment and some basic concepts in an open economy.
V	ECO-RE-5016	**Economic Development and Policy in India–I**	This course reviews major trends in aggregate economic indicators in India and places these against the backdrop of major policy debates in India in the post-Independence period.
	ECO-RE-5026	**Money and Banking**	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered
			This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis. This course should be accessible to anyone with an analytical mind and

	ECO-RE-5036	**Environmental Economics**	familiarity with basic concepts of economics. Environmental problems and issues from the Indian and international context (especially global warming)are used to illustrate the concepts and methods presented in the course. The course will be useful for students aiming towards careers in the government sector, policy analysis, business, journalism and international organisations
	ECO-RG-5016	**Economic Development and Policy in India–I**	This course reviews major trends in aggregate economic indicators in India and places these against the backdrop of major policy debates in India in the post-Independence period.
VI	**ECO-RE-6016**	**Economic Development and Policy in India–II**	Building on the more aggregative analysis of trends in the Indian Economy offered in Economic Development and Policy–I, this course examines sector-specific trends in key indicators and their implications in the post-Independence period.
	ECO-RE-6026	**Economic History of India1857-1947**	This course analyses key aspects of Indian economic development during the second half of British colonial rule. In doing so, it Investigates the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule. This course links directly to the course on India‘s economic development after independence in1947.
	ECO-RE-6026	**Public Finance**	This course is a non-technical overview of government finances with special reference to India. The course does not require any prior knowledge of economics. It will look into the efficiency and equity aspects of taxation of the centre, states and the local governments and the issues of

			fiscal federalism and decentralisation in India. The course will be useful for students aiming towards careers in the government sector, policy analysis, business and journalism.
	ECO-RG-6016	**Economic Development and Policy in India–II**	Building on the more aggregative analysis of trends in the Indian Economy offered in Economic Development and Policy–I, this course examines sector-specific trends in key indicators and their implications in the post-Independence period.

SUBJECT: EDUCATION

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Education syllabus prescribed by Gauhati University may be cited below:

1. To understand the scientific foundational theories and principles of education.

2. To enable the students to understand the relation between education and psychology and different methods of educational psychology.

3. To acquaint the students with the development of education system in ancient, medieval, colonial and post-colonial period in India along with Assam.

4. To acquaint the students with education as a social process and how it can be understand from the social perspective.

5. To acquaint the learner with the emerging issues in education like different literacy programmes, women empowerment, Human rights, globalization, vocationalization of secondary education.

6. To help the students to acquire knowledge of the concept of measurement and evaluation in education and they will understand the different types of educational tests and their uses.

7. To enable the students to understand the concept and scope and objectives of Educational Technology like teaching technology, behavioral technology and instructional technology.

8. To enable the students to understand the concept, scope and importance of environmental education.

9. To acquire knowledge about the three major philosophies of education — Idealism, Naturalism and Pragmatism and to familarise with the Indian schools of philosophical thought — Vedic, Buddhist and Islamic thought.

10. To acquaint the students with the teaching learning process, the principles, maxims fundamental of teaching.

11. To enable the students to understand the basic concepts related to development psychology.

12. To enable the students to understand the concept of continuing education and Distance education and its relevance to the changing society.

13. To help the students to understand the meaning and importance of special education on persons with disabilities, education provisions and support services of special children.

14. To enable the students to understand the basic concepts of management, organization and administration.

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	EDU-HC-1016	Principles of Education	• To acquaint the students with the sound principles of education • To acquaint the students with the important concepts of Education, Curriculum, Democracy, Discipline and Freedom. • To develop knowledge about different Aims of Education, various types of Curriculum, Correlation of Studies and Forms of Discipline. • To familiarize the students with democratic idea of modern education.
	EDU - HC – 1026	Psychological Foundations of Education	• To make the students understand the relationship between education and psychology and the need of educational psychology in teaching learning process. • Describe the nature and theories of learning and role of motivation in learning. • Understand the concept of memory, forgetting, attention and interest. • Understand intelligence, its theories, measurement, and concept of emotional intelligence.
	EDU - HG – 1016	Foundations of Education	• To acquaint with the principles of education • To gain knowledge about different various Forms and Aims of Education • To understand the concept and importance of Discipline and Freedom. • To acquire knowledge about the concept of Emotional, National Integration and

			International Understanding.
II	EDU – HC– 2016	Philosophical and Sociological Foundations of Education	• Know the concept of philosophy and its relationship with education. • Understand the educational implications of different Indian schools of philosophy as well as different Western schools of philosophy. • Know the concept of sociology and its relationship with education and to develop the understanding about the concept of educational sociology, social groups and socialisation.
	EDU – HC– 2026	Development of Education in India	• Recount the concept of Ancient Indian education system • Describe the education system in Ancient India, particularly Vedic Education and examine the education system in Medieval India and education system during British Period
	EDU – HG– 2016	Psychology of Adolescents	• To enable the students to understand the period of adolescence • To enable the students to understand the significance of the adolescence period in human life and to know about various problems associated with this stage • To enable the students to understand the development aspects of adolescence, importance of adolescence period and problems associated with this stage.

III	EDU – HC– 3016	Development of education in India – II	After completion of this course the learners will be able to understand the educational situation during the time of independence; Explain the recommendations and educational importance of different educational commission and committees in Post- Independent India; Analyze the National Policy on Education in different times; Accustom themselves with the recent educational development in India.
	EDU – HC– 3026	Educational technology and teaching methods	After completion of this course the learners will be able to: Understand the objective of educational technology in teaching learning process; Know about the innovations in the field of education through technology; Understand about various methods and devices of teaching; Acquaint themselves with levels, effectives of teaching and classroom management; Understand the strategies of effective teaching as a profession.
	EDU – HC– 3036	Value and peace education	After completion of this course the learners will be able to: Understand the meaning and concept of value, peace, and its importance in human life; Understand the meaning and importance of peace education and its relevance at national and international Level; Identify different issues in imparting peace education; Identify strategies and skills in promoting peace education at institutional level.
	EDU – HG– 3016	Guidance and Counselling	After completion of this course the learners will be able to: Understand the concept, need and importance of guidance and counselling; Know the different types and approaches to guidance and counselling; Acquaint themselves with organization of guidance service and school guidance clinic; Understand the challenges faced by

			the teacher as guidance worker.
	EDU-SE-3014	Public Speaking Skill	After completion of this course the learners will be able to acquire the capacities of public speaking skill.
IV	EDU – HC– 4016	Great Educational Thinkers	The course outcome of this paper is – To enable the students to learn the Philosophy of life of different Educational Thinkers and their works; to enable the students to learn about the views of thinkers in educational context; to enable the students to learn about relevance of some of their thoughts at present day context.
	EDU – HC– 4026	Educational Statistics And Practical	After the completion of this course the learner will be able to Develop the basic concept of Statistics; Be acquainted with different statistical procedures used in Education; Develop the ability to represent educational data through graphs; Familiarize the students about the Normal Probability Curve and its applications in Education.
	EDU – HC– 4036	Emerging issues in education	The course outcome of this paper will be to Make the students acquaint with major emerging issues of national, state, and local level; Acquaint the students with the various issues in education that are emerging in the recent years in the higher education system; Address the various problems and challenges of education in India at all levels.
	EDU-RC-4016	History of education in India	After completion of this course the learner will be able to: Analyse the education system during British Period; Understand the Educational situation during the time of Independence; Explain the recommendations and educational importance of different Education Commission and Committees in post Independent India; Analyse the National Policy on Education in

			different tomes; Accustom with the recent Educational Development in India.
	EDU-SE-4014	Writing biodata and facing an interview	After completing this course, students will be able to write a biodata scientifically and will develop confidence to face different types of interview.
V	EDU – HC– 5016	Measurement and evaluation in education & practical	The course outcome of this paper is to- Enable the students to understand the concept of measurement and evaluation in education; Acquaint the students with the general procedure of test construction and characteristics of a good test; Develop an understanding of different types of educational tests and their uses; Acquaint the students about personality test, and aptitude tests.
	EDU – HC– 5026	Guidance and counselling	The course outcome of this paper will be to- Help the students to understand the concept, need and importance of Guidance and Counselling; Enable the students to know the different types and approaches to Guidance and Counselling; Acquaint the students with the organization of guidance service and school guidance clinic; Enable the learners to understand the challenges faced by the teacher as guidance worker.
	EDU-DSE-5026	Developmental Psychology	The course outcome of this paper will be to- Enable the students to understand the basic concepts relating to development; Acquaint the students about heredity and environmental factors affecting pre-natal development; Enable the students to understand the development aspects during infancy and childhood; Enable the students to understand the development aspects of adolescence, importance of adolescence

			period and problems associated with this stage.
	EDU-DSE-5046	Teacher education in India	After completion of this course the learner will be able to: Explain the Concept, Scope, Aims & Objectives and Significance of teacher education; Acquaint with the development of Teacher Education in India; Acquaint with the different organising bodies of teacher education in India and their functions in preparation of teachers for different levels of education; Acquaint with the innovative trends and recent issues in teacher education, and be able to critically analyse the status of teacher education in India; Understand and conceive the qualities, responsibilities and professional ethics of teachers.
	EDU-DSE-5026	Developmental psychology	The course outcome of this paper will be to- Enable the students to understand the basic concepts relating to development; Acquaint the students about heredity and environmental factors affecting pre-natal development; Enable the students to understand the development aspects during infancy and childhood; Enable the students to understand the development aspects of adolescence, importance of adolescence period and problems associated with this stage.
	EDU – HC– 6016	Education and development	After completion of this course the learner will be able to understand: Relation between education and development; Educational development in the post globalization era; Role of education in community development; Education for human resource development; Economic and political awareness through education

VI	EDU – HC– 6026	PROJECT	After completion of this course the learner will be able to: Explain the process of conducting a Project; Prepare a Project Report.
	EDU – DSE– 6016	Mental health and hygiene	After completion of this course the learner will be able to: Acquaint with the fundamentals and development of mental health and the characteristics of a mentally healthy person; Understand the concept and importance of mental hygiene and its relationship with mental health; Acquire knowledge about the principles, factors promoting mental health and the role of home, school, and society in maintaining proper mental health; Learn the meaning and problem of adjustment and also the different adjustment mechanisms; Familiarize with the concept and issues of positive psychology, mental health of women, role of WHO and stress management.
	EDU-DSC-6036	Educational Management	The course outcome of this paper will be to Develop an understanding of the basic concept of educational management; Enable the students to know about the various resources in education; Enable the students to understand the concept and importance of educational planning; Enable the students to know about the financial resources and financial management in education.
	EDU-DSE-6046	Women and society	After completion of this course the learner will be able to: Know the changing role of women in India; Understand gender discrimination in Indian society; Make the students understand the constitutional provisions for women and their rights; Make the

			students understand women empowerment; Develop an awareness and sensitivity towards women

SUBJECT: ENGLISH

PROGRAMME SPECIFIC OUTCOME

Specific outcome of BA in **English (Hons/Generic/Regular)** syllabus prescribed by Gauhati University is described below:

- Critical evaluation of ideas and arguments through the study of relevant information about the prescribed literary texts
- Acquisition of in depth knowledge English communication through lively interaction and exercise at class room.
- Interpretation of suggested topics and background prose readings through class presentations,
- Familiarisation of prescribed literary texts through screening of movies made upon them.
- Application of the knowledge of critical analysis of literature in interpretation of unprescribed and unseen texts
- Access to the primary literature, identification of relevant works for a particular topic, and evaluation of the theoretical content of these works.
- Exposure to philosophical stand points behind literary creations.
- Familiarisation of world literature and world culture
- Students are introduced to a selection of literatures of India in English translation. Given that Indian Classical Literature offers a rich and diverse canvas that spans across genres like drama, poetry, the epic narrative as well as short fictional fables, to name a few, it is essential that students studying English literature are familiar with at least a few of these. Students get encouragement to think laterally about literatures of the world, and the possibility of cultural
- Students get an exposure to classical writing in Europe that saw the emergence of traditions that cut across many genres, which included poetry, theatre, and general discourses. While the Aristotelian focus on the examination of the essentials of poetry extended to incorporate discussions on epic and drama, subsequent writers such as Horace drew attention to the purposefulness of the creative exercise.
- Students get introduced to chronological approach to the study of poetry, drama, fiction and non-fictional prose, showing the development of each form as it moves through the various periods of English literature and its expansion into global English writing.

- The paper on Indian Writing in English introduces students to the historical development of this body of writing- the challenges faced by early writers, the growing sense of accomplishment in the writing of different forms and the interpretation of individual and collective experience in colonial and postcolonial India.

COURSE OUTCOME of BA (Honours)

Semester	Paper Code	Paper Title	Course Outcome
I	**ENG-HC-1016**	Indian Classical Literature	This paper introduces students to a selection of literatures of India in English translation. Given that Indian Classical Literature offers a rich and diverse canvas that spans across genres like drama, poetry, the epic narrative as well as short fictional fables, to name a few, it is essential that students studying English literature are familiar with at least a few of these. This paper encourages students to think laterally about literatures of the world, and the possibility of cultural exchange.
	ENG-HC-1026	European Classical Literature	Classical writing in Europe saw the emergence of traditions that cut across many genres, which included poetry, theatre, and general discourses. While the Aristotelian focus on the examination of the essentials of poetry extended to incorporate discussions on epic and drama, subsequent writers such as Horace drew attention to the purposefulness of the creative exercise.. It is this enriching literary tradition that this paper seeks to familiarize with through the study of representative texts belonging to the Classical Perio
	ENG-HC-2016	Indian Writing in English	This paper on Indian Writing in English introduces students to the historical development of this body of writing- the challenges faced by early writers, the

II			growing sense of accomplishment in the writing of different forms and the interpretation of individual and collective experience in colonial and postcolonial India.
	ENG-HC-2026	British Poetry and Drama	This paper aims to familiarize the students with the two major forms in British literature from the 14th to the 17th centuries – poetry and drama, apart from acquainting them with the contexts that generated such literatures. The larger contexts of the Renaissance, the nature of the Elizabethan Age and its predilections for certain kinds of literary activities, and the implications of the emergence of new trends will be focused in this paper.
III	**ENG-HC-3016**	History of English Literature and Forms	This paper introduces students to the History of English Literature and the major literary forms. It adopts a chronological approach to the study of poetry, drama, fiction and non-fictional prose, showing the development of each form as it moves through the various periods of English literature and its expansion into global English writing.
	ENG-HC-3026	American Literature	This paper seeks to acquaint the students with the main currents of American literature in its social and cultural contexts. The texts incorporated in the paper are a historical reflection of the growth of American society and of the way the literary imagination has grappled with such growth and change.
	ENG-HC-3036	British Poetry and Drama: 17th and 18th Centuries	This paper aims to familiarize the students with British literature in the 17th and 18th centuries, a time-period which sees the emergence and establishment of greatly diverse kinds of writings. The selected texts may encourage the students to look at the economic, political and social changes in (primarily) Britain during this period.

	ENG-SE-3014	CREATIVE WRITING	The students in this course will focus on three creative genres, fiction, non-fiction and poetry. The emphasis will be to build proficiency in readings and writings. The course encourages active class participation and lots of writings. One of the basic objectives of the course is to allow students to explore ideas, feelings, experiences and effectively communicate these stimulus using the written word. Each lecture will be tied to reading of texts, techniques, narratology and rhetorical positions. The set of readings will be given during the course and may vary each semester, whenever the course is on offer.
IV	**ENG-HC-4016**	British Literature: The 18th Century	This paper aims to familiarize the students with British literature in the 18th century. A very interesting age in which reason and rationality dominated, this age saw the publication of some of the best novels and works of non-fictional prose and poetry in the English language. The texts in the course are representative of the age and to some extent representative of the forms as well. The selected texts hope to give the students an overview of the age and the writings that the age produced.
	ENG-HC-4026	British Romantic Literature	The nineteenth century begins with the triumph of the Romantic imagination, expressing itself most memorably in the poetry of Blake, Burns, Wordsworth, Coleridge, Shelley, and Keats. The poetry of the age fashions itself partly in revolt to the spirit of the previous age, with very different ideas about the relationship between humans and nature and the role of the poet taking hold. This paper includes selections from works of major Romantic poets which address these issues, enabling students to appreciate the essence of the Romantic vision.

	ENG-HC-4036	British Literature: The 19th Century	The middle and later parts of the 19th century sees the novel coming into its own, although Jane Austen has already established the prestige of the novel form through her incisive explorations of the complexity of human motive and conduct, especially in their worldly affairs. The texts chosen will expose the students to the ground-breaking efforts of the poets as well to the works of fiction writers.
	ENG-SE-4014	Translation: Principles and Practice	This course is designed to give students basic skills in translation. It introduces students to the field of translation studies and gives them training in practical translation.
	ENG-HC-5016	British Literature: The 20th Century	While literary modernity can trace its roots to the works of some European writers of the 19th century, in England it is in the 20th century that the era of Modernism finds its voice in arts and literature. The works of the writers chosen for this paper are good introductions to the spirit of modernism, with its urgent desire to break with the codes and conventions of the past, experiment with new forms and idioms, and its cosmopolitan willingness to open itself up to influences coming from other shores. The paper goes beyond the High Modern period of the early century and the students will also get acquainted with the ethos of postmodernism through a reading of recent poetic and fictional work
	ENG-HC-5026	Women's Writing	This paper seeks to direct the students' attention to nineteenth and twentieth century writings by women living in different geographical and socio cultural settings. Students will get acquainted with the situationally distinct

V			experiences of women articulated in a variety of genres-poetry, novels, short stories, and autobiography, while the selections from Mary Wollstonecraft-the only 18th century text prescribed, will acquaint students with the ideas contained in one of the earliest feminist treatises of the western world. Apart from an examination of the themes and styles in the prescribed texts, students will be required to engage themselves with the specificities of the contexts from which the texts emerged and also analyze the women writers' handling of the different genres to articulate their women-centric experiences. Themes: Gender, sexual/textual politics, feminism, body, identity, class, location, voice, space, gender and narrative
	ENG-HE-5026	Modern Indian Writing in English Translation	Literature in the various Indian languages presents a huge body of work testifying to the diverse cultural and regional preoccupations in the respective regions these languages belong to. This paper attempts to give students an introductory glimpse into this richness and diversity of Indian literature written in the regional languages.
	ENG-HE-5036	Literature of the Indian Diaspora	In the light of global literature today focusing extensively on ideas of transnationalism, exile, migration, displacement, and so on, literature of the diaspora has come to exert a strong presence in the global scene. This paper will look at the diasporic experience with particular reference to Indian diasporic writers.
	ENG-HC-6016	Modern European Drama	The paper aims at introducing students to the innovative dramatic works of playwrights from different locations in Europe, which taken together represents the wide range of modern drama and its fortunes on the written page and the

VI			stage. The selected plays would allow 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.
	ENG-HC-6026	Postcolonial Literatures	European Colonialism since the fifteenth century changed the face of the world in many significant ways, and the effects of the experience of colonialism remain in many countries around the world even in the postcolonial era. This paper gives the students an opportunity to acquaint themselves with some of the novels, short stories and poems from postcolonial literatures across the world, with the texts showcasing the many regional, cultural differences and peculiarities, as well as common and shared experiences of the postcolonial condition.
	ENG-HE-6036	Partition Literature	The students are introduced to the following topics: • Colonialism, Nationalism, and the Partition • Communalism and Violence • Homelessness and Exile • Women in the Partition
	ENG-HE-6066	Writings from North East India	The students are introduced to the following topics: • The Folk in Narrative • Myths and Legends • Memory and Telling • Writing Northeast India

COURSE OUTCOME of BA in English (Generic/Regular)

Semester	Paper Code	Paper Title	Course Outcome
I	**ENG-HG/RC-1016**	Individual and Society	This paper examines a key aspect of literary composition – the figure of the individual in her interactions with the society in which she lives. Literary works represent these elements in different ways. The individual appears as character, narrator, writer, while the society features as milieu in which individuals function, and as that which creates the conditions for emergence of the literary text. Individuals live in harmony or in conflict with society. Texts in this paper, selected from the many literatures in English being produced today, will provide the opportunity to study all of these aspects.
	..... **ENG-HG-1026**	..... Academic Writing and Composition	..... The students will be benefitted as follows: • Introduction to the Writing Process • Introduction to the Conventions of Academic Writing • Writing in one's own words: Summarizing and Paraphrasing • Critical Thinking: Syntheses, Analyses, and Evaluation • Structuring an Argument: Introduction, Interjection, and Conclusion • Citing Resources; Editing, Book and Media Review

II	**ENG-HG/RC-2016**	Modern Indian Literature	The paper on Modern Indian Literature comprises extensive writings in all genres in many languages. The different historical and cultural backgrounds of the various Indian languages and literatures add to the complexity of what is termed as Modern Indian Literatures. However, there are also things that hold India together, many commonalities, bondings, and shared experiences despite the varieties. The list of short stories and poems prescribed for this course give the student a taste of Indian writing from different regions of the country. The selection has been culled from English translations of writings in Indian languages and English compositions of Indian authors
III	**ENG-HG/RC-3016**	British Literature	This paper is designed to offer a representative sampling of the major literary traditions of British life and culture through a study of texts in different genres.
	ALT-CC-3016	Alternative English- I	This paper would seek to acquaint students with the major genres of English literature through texts which are landmarks of each genre. The texts have been carefully chosen to effectively represent the distinctive qualities of a particular genre. Moreover, students are encouraged to read the prescribed texts in their social and cultural contexts.
	ENG-HG-4026	Language, Literature and Culture	This paper will introduce students to the relationship between language, literature and culture.

IV			Language varies according to the culture and world view of the group in which it is used. The language used in literature also has certain features which distinguish it from the language of everyday communication. Keeping these aspects in mind, students will study the following topics: • Speech community • Concept of dialect • Register and style • Diglossia • Bilingualism and multilingualism • Language and gender • Style in literature: cohesion, word-choice, point of view, figures of speech, the concept of genre
	ENG-RC-4016	Literary Cross Currents: Forms: Prose, Poetry, Fiction & Play	In almost every period of literary history works of non-fictional prose, fiction, poetry and drama have co-existed. Also, literary cross-currents have helped shape these literary forms in a way that demonstrates their affinities as well as differences. It's important to study works with due attention to their 'formal' aspects so that what it is truly distinctive about the literary type, form, or genre to which they belong is not missed. At the same time it's necessary to contextualize the study so that the evolutionary or historical dimension of the literary works, their growth and transformation over the years is not lost sight of. This paper will acquaint the students with different literary forms, with one part addressing formal concerns including definitions, while the other part will involve study of actual texts which exemplify a particular literary form or genre,

			and which will include some consideration of the contexts of their production.
	ALT-CC-4016	Alternative English- II	The course has been designed to familiarise students with different forms of literature, texts and their contexts. The select texts would enable them to understand literary representations and a writer's engagement with the social, cultural and political milieu.
V	**ENG-RG-5016**	Contemporary India: Women and Empowerment	This course will look at Women's Issues in India in the light of the various historical and social contexts. It will trace the evolution of Women's Empowerment both in terms of policy and discourse in postcolonial, contemporary India and at the same time try to locate the women's position in earlier times.
	ENG-SE-5014	Technical Writing	This course in Technical Writing aims at equipping the student with the skills of writing with a practical purpose. It is concerned with the techniques of good writing, of retaining and communicating information with precision, and also with specific forms of technical writing such as summaries, instructions, descriptions, formal letters and official emails.

	ENG-RE-5016	Soft Skills	The purpose of this Course is to equip students with the resources of soft skills so as to develop their overall personality. With this aim the course is designed to make the learners understand and be aware about the importance, role and contents of soft skills through instructions, knowledge acquisition, demonstration and practice. In effect this course hopes to improve the students' communication, interaction, writing and documentation skills and thereby hone their confidence level.
VI	**ENG-RE-6016**	Academic Writing	The English language is the language of higher education as well as the language used in a variety of formal settings. Hence students are expected to develop the requisite proficiency in academic writing which involves the ability to write summaries, abstracts, reviews, reports, conference /seminar presentations etc. This paper is aimed at developing academic writing skills by acquainting students with the different kinds of academic writing and the skills to be acquired to write academic English for various purposes;it will also give them practice in the processes involved in producing pieces of good academic writing. The paper consists of two modules –module 1

			and module Module 1: Essentials of Academic Writing This module will familiarize students with samples of different kinds of academic writing and concentrate on developing the basic skills required for such writing as building up vocabulary for formal use, gathering ideas or data for purposes of description or building up an argument or thesis statement, organizing the ideas so that there is coherence and clarity of thinking, making paragraphs and writing without grammatical and spelling errors. Module 2: Practice in Academic Writing This module will focus on giving students practice in different kinds of academic writing-taking them through the processes of making drafts, revising, editing, and writing the final version. They are also to be taught to prepare bibliographies, citations and references for writing intended for publication in academic journals.
	ENG-RG-6016	Cultural Diversity	This paper is designed to facilitate the student's engagement with and understanding of cultural contexts, situations and the rich variety of practices through a sampling of such texts that represent the widely textured tapestry emanating from different locations of the world. There will be 80 marks for the end-semester external examination and 20 marks will be allotted for internal evaluation.
	ENG-SE-6014	Business Communication	This paper is designed to familiarize students with a comprehensive idea of effective communication and its importance in the business and professional

			world. Students will be introduced to the various kinds of communication as well as to the many theories of communication. The components in this paper will be both written and oral, and students will be required to participate in diverse group activities. Activities (individual and/or group) on the spoken components of the paper will be considered for internal assessment in this paper, while the end-semester examination will focus on the theoretical and written elements of the paper.

SUBJECT: GEOGRAPHY

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Geography major syllabus prescribed by Gauhati University may be cited below:

The students graduating in geography will be immensely benefitted with

following skills:

- The programme will enrich and enlighten the students with fundamental geographical understanding to chase higher education in the discipline.
- The programme will prepare the students with adequate knowledge applicability and problem solving capacities.
- The programme will provide encouragement among students to pursue a career in Geoinformatics in future.
- The programme deals with project work and preparation of dissertation which will promote research work and research profession among the students.
- The programme will build a sound geographical base in the students which will immensely help them while preparing for any competitive exams.
- The programme deals extensively on environment and man-nature

relationship. This will create a sense of awareness and social responsibility among the students towards the environment.

- Most importantly, the programme will help students to become better and responsible citizens of the nation.

COURSE OUTCOME

1ST Semester

Paper Title: Geomorphology

Paper Code: GGY - HC – 1016

Course Outcomes

- The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.
- The students will come to know about the meaning and scope of geomorphology as a major branch of Physical Geography.
- After gaining knowledge based on the contents embodied in this paper, the students will be able to realize the importance of geomorphological knowledge as applied in various developmental activities executed in different areas.

Paper Title: Cartographic Techniques

Paper Code: GGY-HC-1026

Course Outcomes:

- Understanding the importance of various cartographic techniques in geographical study
- General understanding of map type, map scale and map content.
- An acquaintance of different cartographic techniques for representation of various facets of physical and human geographic data of any area.

Paper Title: Physical Geography

Paper Code: GGY-RC-1016

Course Outcomes:

- The students will learn that the earth is unstable and it is undergoing constant changes due to dynamic earth's processes.

- The students will come to know about the meaning and scope of geomorphology, which a major branch of Physical Geography.
- After gaining knowledge based on the contents embodied in this paper, the students will be able to realize the importance of geomorphological knowledge as applied in various developmental activities executed on the land and over the earth's surface.

2nd semester

Paper Title: Human Geography

Paper Code: GGY-HC-2016

Course Outcomes:

- The paper will be useful for students in developing ideas on human-environment issues that geographers usually address in the Anthropocene.
- The paper will be useful for students preparing for UGC NET/SLET exams and other competitive exams including the civil services.

Paper Title: Climatology and Biogeography

Paper Code: GGY-HC-2026

Course Outcomes:

- The paper will be useful for students in developing ideas on climate related aspects of Geographical analyses.
- The paper will help provide theoretical insights and perspectives to students if they wish to pursue a research programme in future.
- Students will develop a basic understanding of the introductory concepts in biogeography.
- The paper be very useful for students preparing for UGC NET-JRF / SLET exam and other competitive exams including civil services.

Paper Title: Human Geography

Paper Code: GGY-HG-2036

Course Outcomes:

- The paper will be useful for students in developing ideas on human-environment issues that geographers usually address in the Anthropocene.

- The paper will be useful for students preparing for various competitive examinations including the civil services.

3rd semester

Paper Title: Economic Geography

Paper Code: GGY-HC-3016

Course Outcomes:

- The paper will be useful for students in developing ideas on how geographical aspects organize economic space and will offer perspectives to students if they wish to pursue a research programme.
- The paper will be useful for students preparing for UGC NET/SLET exams and other competitive exams including the civil services.

Paper Title: Geography of India with Special Reference to N.E. India

Paper Code: GGY-HC-3026

Course Outcomes:

- The paper will be useful for students in developing understanding on Indian geography and its various dimensions.
- It will also be useful for students preparing for various competitive examinations including civil services.

Paper Title: Quantitative Methods in Geography

Paper Code: GGY-HC-3036

Course Outcomes:

- Thorough understanding of the statistical methods and techniques used in geographical studies;
- Understanding of tabulation, analysis and interpretation of geographical data.

Paper Title: Thematic Cartography

Paper Code: GGY–SE-3054

Course Outcomes:

- Understanding the importance of various techniques of preparation of maps in Geographical study

- General understanding of preparation of different types of plan and maps.
- An acquaintance of different cartographic techniques for representation of various facets of earth's surface.

Paper Title: Economic Geography

Paper Code: GGY-HG-3066

Course Outcomes:

- This paper will be useful for the students in developing understanding on how geographical factors organize economic space, and to acquire knowledge about spatial patterns of various economic activities on the earth.

4th semester

Paper Title: Environmental Geography and Disaster Management

Paper Code: GGY-HC-4016

Course Outcomes:

- This paper will be useful for students in developing ideas on environmental issues including disasters that geographers usually address.
- This paper will be useful for students preparing for different competitive exams including the civil services.

Paper Title: Population and Settlement Geography

Paper Code: GGY-HC-4026

Course Outcomes:

- The paper will be useful for students in developing ideas about spatio-temporal changes in the characteristics of population and settlement and the factors associated with them.
- The paper will be useful for students preparing for various competitive exams including the civil services.

Paper Title: Remote Sensing, GIS and GPS

Paper Code: GGY-HC-4036

Course Outcomes:

- The paper remains useful for students in developing skills in spatial data analysis if they wish to pursue a research programme.
- The paper will be useful for students preparing for different competitive exams
- including the civil services.

Paper Title: Surveying Techniques

Paper Code: GGY-SE-4054

Course Outcomes:

- Understanding the importance of various surveying techniques in geographical study
- General understanding of preparation procedures of different types of plans and map
- An acquaintance of different surveying techniques for representation of various spatial objects/Phenomena.

Paper Title: Population and Settlement Geography

Paper Code: GGY-HG-4076

Course Outcomes:

- The paper will be useful for students in developing ideas about spatio-temporal changes in the characteristics of population and settlement and the factors associated with them.
- The paper will be useful for students preparing for various competitive exams including the civil services.

5^{th} semester

Paper Title: Social and Political Geography

Paper Code: GGY-HC-5016

Course Outcomes:

- This course will help equip the students to comprehend various social and political aspects of phenomena and their interface within the realm of geography.
- The paper will be very useful for students preparing for various competitive examinations including civil services.

Paper Title: Field Techniques in Geography

Paper Code: GGY-HC-5026

Course Outcomes:

- This course will help students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed for doing quality research.
- Students perceive fieldwork to be beneficial to their learning, because through it they experience 'geographical reality', and have deeper understanding of the subject.
- The students will have a chance to interact with respondents and collect data through questionnaire directly from the field.
- This course will develop understanding about designing and writing a field report.

Paper Title: Urban Geography

Paper Code: GGY-HE-5056

Course Outcomes:

- The paper will be useful for students in developing ideas on how geographical factors organize urban spaces and how geographers seek to address various urban problems and issues.
- It will help build skills among students seeking advanced studies on urban development and planning.
- The paper will be very useful for students preparing for various competitive examinations including civil services.

Paper Title: Agricultural Geography

Paper Code: GGY-HE-5066

Course Outcomes:

- This paper will be useful for students in developing ideas about agricultural practices and their distribution and characteristics.
- This paper will also be useful to the students in understanding the world agricultural systems.
- This paper will help develop understanding of location of agricultural activities and associated contemporary problems and challenges.

Paper Title: Population and Settlement Geography

Paper Code: GGY-RE-5036

Course Outcomes:

- The paper will be useful for students in developing ideas about spatio-temporal changes in the characteristics of population and settlement and the factors associated with them.
- The paper will be useful for students preparing for various competitive exams including the civil services.

6th semester

Paper Title: Geographical Thought

Paper Code: GGY-HC-6016

Course Outcomes:

- This course develops a comprehensive understanding of the discipline;
- This course helps the students to apply the historic and contemporary perspective to explain and approach the real-world geographic problems.

Paper Title: Research Methods in Geography and Project Work

Paper Code: GGY-HC-6026

Course Outcomes:

- This course will help the students to proceed with a research problem and the steps she/he should adopt and the tools and craft to be employed while doing quality research.

Paper Title: Geography of Health

Paper Code: GGY-HE–6036

Course Outcomes:

- Understanding of the concept of human health and healthcare from the perspective of geography.
- Acquiring knowledge about factors influencing human health and occurrence of diseases in varying ecological settings.
- Providing useful information about the impact of global climate change on human health and occurrence of various diseases in different ecological settings in India.

Paper Title: Geography of Tourism

Paper Code: GGY–HE-6056

Course Outcomes:

- The paper will be useful for students in developing ideas on how geographical factors tangent on tourism activities and how geographers seek to address issues of development and carrying capacities of varied environments.
- It will also build skills for students seeking to enrol in a research programme and/or provide openings for them to work with tourism/eco-tourism planning agencies.

Paper Title: Geography of Health

Paper Code: GGY-RE-6036

Course Outcomes:

- Understanding of the concept of human health and healthcare from the perspective of geography.
- Acquiring knowledge about factors influencing human health and occurrence of diseases in varying ecological settings.
- Providing useful information about the impact of global climate change on human health and occurrence of various diseases in different ecological settings in India.

SUBJECT: HISTORY

PROGRAMME SPECIFIC OUTCOME

Specific outcome of History major syllabus prescribed by Gauhati University may be cited below:

1. To understand the meaning and scope of history and its relation with other disciplines.

2. The students will be acquainted with history of India according to its various phases like – Paleolithic, Mesolithic and Neolithic.

3. The students will understand the state-formation process under the Mauryas, Guptas etc.

4. Will be acquainted with the history of ancient civilizations of the world viz. Mesopotamia, Greece, Chinese, and Roman.

5. The students will understand the rise of Turks and Afghans in India and its affect on state, society and economy.

6. Will help the students to know the history of ancient medieval and modern Assam along with its various dynasties and their impact upon society, polity, economy etc.

7. Will help the students to know about advent of Mughal in India and expansion of their territory.

8. Will help the students to know about history of Europe and its transition from Medieval to modern age.

9. Will help the students to know about the arrival of the British in India and their expansion and consolidation.

10. Will help the students to understand the existence of science and technology in pre-colonial India

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	HIS - HC – 1016	History of India- I	After the completion of this paper, the students will be able to explore and effectively use historical tools in reconstructing the remote past of ancient Indian pre and Proto history. The course will also train the students to analyse the various stages of evolution of human cultures and the belief systems in the proto- history period.
	HIS - HC – 1026	Social Formations and Cultural Patterns of The Ancient World	After the completion of this paper, the students will be able to explain the Processes and stages of the evolution of the variety of cultural pattern throughout antiquarian Periods in History. They will be able to relate the connections between the various Bronze Age civilizations in the ancient world as well as development of slave and polis societies in Ancient Greece.
II	HIS – HC– 2016	History of India	On successful completion of this course the students will be able to Explain the economic and socio-cultural connections, transitions and stratifications during the Ruling houses, empires and the politico-administrative nuances of early Indian History from 300 BCE to 300 CE.
	HIS – HC– 2026	Social Formations and Cultural Patterns of The Medieval World	A fter the completion of this course, the students will beable to analyse and explain the historical socio-political, administrative and economic patterns of the medieval world. They will be able to describe the emergence, growth and decline of various Politico administrative and economic patterns and the resultant changes there.
	HIS – HC– 3016	History of India III (c. 750 -1206)	The completion of this paper will enable the students to elate and explain the developments in India in its political and economic fields and its relation to the Social and cultural patterns therein in the historical time

III			period between c.700 to 1206. They 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	On completion of this course, the students will be able to explain the major trends and developments in the Western world between the 14th to the 16th century CE. They will be able to explore and analyse the significant historical shifts and events and the resultant effects on the civilizations of Europe in the period
	HIS – HC– 3036	History of India IV (c.1206 - 1550)	A fter completion of this course students will be able to explain the political and administrative history of medieval period of India from 1206 to 1550 AD. They will also be able to analyse the sources of history, regional variations, social, cultural and economic set up of the period.
IV	HIS – HC– 4016	Rise of The Modern West – II	After the completion of this course, the student will be able to explain the political and intellectual currents in Europe in the Modern Age. They will also be able to relate the circumstances and causal factors of the intellectual and revolutionary currents of both Europe and America at the beginning of the Modern age.
	HIS – HC– 4026	History of India V (c.1550 - 1605)	At the completion of this course, the students will be able to analyse the circumstances and historical shifts and foundations of a variety of administrative and political Setup in India between c.1550-1605. They will also be able to describe the inter relationships between the economy, culture and religious practices of the period.
		History of India VI (c. 1605 - 1750)	After the completion of this course, the students will be able to explain and reconstruct the linkages of the history of India under the Mughal Rule. As a whole, this course will able them to

	HIS – HC– 4036		relate to the socio-economic and religious orientation of the people of Medieval period in India.
V	HIS – HC– 5016	History of Modern Europe- I (c. 1780-1939)	After the completion of this course the students will be able to evaluate the historical evolution and political developments that occurred in Europe in the period between 1780 and 1939. They will also be also to critically analyse the evolution of social classes, nation, states, evolution of capitalism and nationalist sentiment in Europe. They will also be able to relate to the variety of causes that dragged the world into devastating wars in the intervening period
	HIS – HC– 5026	History of India VII (c. 1780 - 1857)	After the completion of this course, the students will be able to relate the circumstances leading to the consolidation of colonial rule over India and their consequences. They will also be able to explain the orientation of the indigenous population and the masses towards resistance to the colonial exploitation. 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 (Upto c. 1228)	This paper will give a general outline of the history of Assam from the earliest times to the advent of the Ahoms in the 13th century. Upon completion, students will be acquainted with major stages of developments in the political, social and cultural history of Assam during the early times.
	HIS - HC –5056	History of Assam (C. 1228 –1826)	On completion of this paper, students will be able to identify major stages of developments in the political, social and cultural history of Assam during the medieval times. This paper will enable the student to explain the history of Assam from the 13th century to the occupation of Assam by the English East India Company in the first quarter of the 19th century.

VI	HIS – HC– 6016	History of India Viii (c. 1857 - 1950)	At the completion of this course, the learners will be able to analyse the course of British colonial exploitation, the social mobilizations during the period between c.1857 to 1950 and also the techniques of Indian resistance to British policies. It will also enable the students to explain the circumstances leading to decolonization and also the initial period of nation building in India.
	HIS – HC– 6026	History of modern europe II (c. 1780 - 1939)	After the completion of this course, the students will be able to analyse the historical developments in Europe between c.1780 to 1939. As the course structure of this paper focuses on the democratic and socialist foundations modern Europe, the students will 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.
	HIS-HE-6016	History of Assam (c. 1826 – 1947)	Upon completion of this course, students will be able to describe the period of British rule in Assam after its annexation by the imperialist forces. They will also be able to situate the development of nationalism in Assam and its role in India's freedom struggle. The course would enable the students to analyse the main currents of the political and socio-economic developments in Assam during the colonial period.
	HIS-HE-6026	Assam Since independence	Students will be able to assess the aftermath of Partition and other socio-economic developments in post independence Assam upon completion of this course. They will also be able to identify the main currents of political and socio-economic development in Assam after India's independence and the causes and impact of various struggles and movements in contemporary Assam.

SUBJECT: PHILOSOPHY

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Philosophy (Hons) syllabus prescribed by Gauhati University may be cited below:

- The programme helps students to analyze the ways in which humans experience the world and to develop a sense of value.
- The study of philosophy is intrinsically as well as extrinsically valuable. The students of philosophy can develop the ability in critical thinking skills.
- They understand the concept of right and wrong, understand the moral principles and their application in everyday life.
- They develop the ability to summarize and explain difficult ideas and concepts in their own.
- The students also develop the ability to understand reality from different perspectives and examine different sides of an issue as well as students learn to improve their analytical writing skills through this programme.
- The programme helps student to develop the creative and independent thinking.
- The student of philosophy develops ability in research methodology, specifically stating and defending a clear and substantive thesis.
- The programme helps student to carefully and insightfully analyzed argument, rhetoric expressed in various media like print, television, radio and social media.

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	PHI - HC – 1016	Indian Philosophy- I	Indian philosophy has been concern with various philosophical problems such as nature of the world, nature of reality, nature of knowledge, logic, ethics and the philosophy of religion. Indian philosophy creates awareness about the spiritual aspects of individual as well as ancient philosophical traditions of India.
	PHI - HC – 1026	Logic- I	Logic helps students to clarify thought process and make correct reasoning. Also Modern or Symbolic Logic gives us the knowledge of the formal techniques of evaluating arguments and deductive systems.
II	PHI – HC– 2016	Greek Philosophy	As Greek philosophy deals with wide variety of subjects like political philosophy, ontology, aesthetic etc, it helps a student to know about the origin of philosophy and cultural.
	PHI – HC– 2026	Logic II	This paper basically develops the knowledge how to determine the logical truth and also the validity of arguments.It enables students to face different competitive examination. In this paper mathematical logic is applied to solve the Proplem of logical and mathematical enquiry.
III	PHI – HC– 3016	Western Philosophy (Descartes to Hegel)	This paper basically Let the student to know how the rationalistic, empiricestic, critical and idealitic enquiry regarding the origine of knowledge was developed in western Philosophical world.
	PHI – HC– 3026	Indian Philosophy- II	This paper introduced students with the different Theistic and Vedic Schools of Indian Philosophy and also provides the Knowledge of the logical,epistenological and metaphysical enquiry.
	PHI – HC– 3036	Ethics	This paper aims at to promote the student the moral Consciousness,a sense of cooperation and responsibility. How the people should lead a moral life and the relevance of morality in different fields of our activity and Profession can

			be realized by Proper study of this paper.
IV	PHI – HC– 4016	Contemporary Indian Philosophy	In this paper the Indian attempt contemporary a thinkers made an systematic, Critical and comprehensive study regarding the problem of the nature and desting of the universe. They have largely concentrated with the new meaning and re-orientation to classical Indian thought. Through this paper the students may be benifitted to realise huminity in real sense.
	PHI – HC– 4026	Philosophy of Religion	Religion occupies significant place and plays a very important role in our lives. Religion emerged in response to human needs. Man looked to realiset religion for guidance when confronted with problem in life and religion guided almost every aspect of human life.
	PHI – HC– 4036	Political & Social Philosophy	The paper promote students Knowledge the individual.This also introduces reader with the different Political and Social ideologies which enables and benifited th student to face different competitive exams.
V	PHI – HC– 5016	Analytic Philosophy	In this paper the western contemporary thickness attempted to made a systematic, scientific, integrated critical and a comprehensive study of the problem of philosophical enquiry which are termed as new trends in Contemporary philosophy.
	PHI – HC– 5026	Phenomenology and Existentialism	This is the paper in which huminism and man's existence is the main theme of Philosophy. This Paper leads the reader to huministic philosophy which recognizes the value and dignity of man and it makes him measure of all things. This paper also stressed upon subjectivity of individual human being and also the freedom and responsibility.
	PHI –HE-5016	Philosophy of Upanisaḍs	This paper stressed upon the philosophy of Vedas and upanisods.By this paper the reader may also know the individual desting, law of karma and liberation which is essential to lead an ideal life of human being.

	PHI-HE-5026	Philosophy of Gita	This paper basically wants to give knowledge of the Gita. It tries to give the knowledge of the Bhakti and karma, and also the meaning and application of yoga.
VI	PHI – HC– 6016	Philosophy of Mind	This paper stressed upon the philosophy of Vedas and upanisods.By this paper the reader may also know the individual desting, law of karma and liberation which is essential to lead an ideal life of human being.
	PHI – HC– 6026	Meta Ethics	This paper basically wants to give knowledge of the Gita. It tries to give the knowledge of the Bhakti and karma, and also the meaning and application of yoga.
	PHI-HE-6016	Western Philosophy (Textual Study)	This paper basically based upon the philosophy of Mind.Students will get the knowledge about the psychology and the philosophy of mind by Proper study of this paper.
	PHI-HE-6026	Philosophy of Language	This paper wants to give knowledge of the Students about meta ethics, the ethical concepts and evaluations regarding Good and Right.
	PHI-HE-6036	Applied Ethics	This paper aims at to Promote the students the moral consciousness, a sense of coperation and responsibility. How the people should lead a moral life and in relevance of morality in different fields of our activity and Professions. Can be realised by The proper study of this paper. This paper is helpful for various competitive examinations.

SUBJECT: POLITICAL SCIENCE

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Political Science (Hons) syllabus prescribed by Gauhati University may be cited below:

1.Political science as a subject acquainted the students to understand various theories of political science and its history and approaches, and an assessment of its critical.

2.The study of political Science will help the students to know about the constitution of India and how the constitutional provisions are applied in the administrative system of the country. It helps them to know the various rights and Duties of the Citizen.

3.Political Science is useful to understand the mechanisms of modern governmental systems.

4.The subject enables the students to understand the various theories of International Relations and dynamics involved with it. The study of Political Science is also useful for understanding both national and international foreign policies.

5.Political science also deals with various ideals like Rights, Justice, Liberty, Equality, etc.

6.The subject is also helpful in inculcating democratic values, good citizenship, etc.

7.With the help of studying Political Science students will able to understand prevailing political culture in a political system and thereby they get themselves acquaint with the political process of the political system.

8.The study of Political Science is helpful in understanding the political development that takes place in a particular political system.

9.The students get themselves aware about the Human Rights, working of various International Organisations in different field of Human Development through the study of Political Science.

10.The subject imparts the lesson of co-operation and toleration among the students.

11.This subject introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social and cultural and technological dimension.

12.The subject provides an introduction to the discipline of Public Administration. It encompasses public administration in its historical context with an emphasis on various classical and contemporary administrative theories.

13.The subject enables the students to understand the political philosophy of the Indian and western political thinkers and their applicability in present context.

14.The subject provides the knowledge of contemporary political Ideologies and issues in the global context the student.

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	POL - HC – 1016	Understanding Political Theory	The course syllabus is divided into two sections. Section A deals with the idea of political theory, its history and approaches, and an assessment of its Critical and contemporary trends. On the other hand, Section B is designed to reconcile political theory and Practice through reflections on the ideas and practices related to democracy
	POL - HC – 1026	Constitutional Government and Democracy In India	This course acquaints students with the constitutional design of state structures and institutions, and their actual working overtime. The Indian Constitution accommodates conflicting impulses (of liberty and justice, territorial decentralization and a strong union, for instance) within itself. The course traces the embodiment of some of the conflicts in constitutional provisions, and shows how these have played out in political practice. It further encourages a study of state institutions in their mutual interaction, and in interaction with the larger extra-constitutional environment.
II	POL – HC– 2016	Political Theory- Concepts and Debates	This course is divided into two sections. Section A helps the student familiarize with the basic normative concepts of political theory. Each concept is related to a crucial political issue that requires analysis with the aid of our conceptual understanding. This exercise is designed to encourage critical and reflective analysis and interpretation of social practices through the relevant conceptual toolkit. Section B introduces the students to the important debates in the subject. These debates prompt us to consider that there is no settled way of understanding concepts and that in the light of new insights and challenges, besides newer ways of perceiving and interpreting the

			world around us, we inaugurate new modes of political debates.
	POL – HC– 2026	Political Process in India	Actual politics in India diverges quite significantly from constitutional Legal rules. An understanding of the political process thus calls for a different mode of analysis - that offered by political sociology. This course maps the working of _modern_ institutions, premised on the existence of an individuated society, in a context marked by communitarian solidarities, and their mutual transformation thereby. It also familiarizes students with the working of the Indian state, paying attention to the contradictory dynamics of modern state power.
III	POL – HC– 3016	Introduction to Comparative Government and Politics	This is a foundational course in comparative politics.The purpose is to familiarize students with the basic concepts and approaches to the study of comparative politics. More specifically the course will focus on examining politics in a historical framework while engaging with various themes of comparative analysis in developed and developing countries.
	POL – HC– 3026	Perspectives on public administration	The course provides an introduction to the discipline of public administration. This paper encompasses public administration in its historical context with an emphasis on the various classical and contemporary administrative theories. The course also explores some of the recent trends, including feminism and ecological conservation and how the call for greater democratization is restructuring public administration. The course will also attempt to provide the students a comprehensive understanding on contemporary administrative developments.
	POL – HC– 3036	Perspectives on International Relations and World History	This paper seeks to equip students with the basic intellectual tools for understanding International Relations. It introduces students to some of the most important theoretical approaches for studying international relations. The course begins by historically

			contextualizing the evolution of the international state system before discussing the agency structure problem through the levels-of-analysis approach. After having set the parameters of the debate, students are introduced to different theories in International Relations. It provides a fairly comprehensive overview of the major political developments and events starting from the twentieth century. Students are expected to learn about the key milestones in world history and equip them with the tools to understand and analyze the same from different perspectives. A key objective of the course is to make students aware of the implicit Euro -centricism of International Relations by highlighting certain specific perspectives from the Global South.
IV	POL – HC– 4016	Political Processes and Institutions in Comparative Perspective	In this course students will be trained in the application of comparative methods to the study of politics. The course is comparative in both what we study and how we study. In the process the course aims to introduce undergraduate students to some of the range of issues, literature, and methods that cover comparative political.
	POL – HC– 4026	Public Policy and Administration in India	The paper seeks to provide an introduction to the interface between public policy and administration in India. The essence of public policy lies in its effectiveness in translating the governing philosophy into programs and policies and making it a part of the community living. It deals with issues of decentralization, financial management, citizens and administration and social welfare from a non-western perspective.
	POL – HC– 4036	Global Politics	This course introduces students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions. In keeping with the most important debates within the globalization discourse, it imparts an understanding of the working of the world economy, its anchors and

			resistances offered by global social movements while analyzing the changing nature of relationship between the state and trans-national actors and networks. The course also offers insights into key contemporary global issues such as the proliferation of nuclear weapons, ecological issues, international terrorism, and human security before concluding with a debate on the phenomenon of global governance.
V	POL – HC– 5016	Classical Political Philosophy	This course goes back to Greek antiquity and familiarizes students with the manner in which the political questions were first posed. Machiavelli comes as an interlude inaugurating modern politics followed by Hobbes and Locke. This is a basic foundation course for students.
	POL – HC– 5026	Indian Political Thought-I	This course introduces the specific elements of Indian Political Thought spanning over two millennia. The basic focus of study is on individual thinkers whose ideas are however framed by specific themes. The course as a whole is meant to provide a sense of the broad streams of Indian thought while encouraging a specific knowledge of individual thinkers and texts. Selected extracts from some original texts are also given to discuss in class. The list of additional readings is meant for teachers as well as the more interested students.
	POL-SE- 5014	Public Opinion and Survey Research	This course will introduce the students to the debates, principles and practices of public opinion polling in the context of democracies, with special reference to India.
	POL - HE –5016	Human Rights	The course helps students to understand the concepts and institutions related to Human Rights at international level. It again familiarizes students with different approaches and perspectives on Human rights.
	POL-HE-5046	Select Constitutions	The paper introduces the constitutional and political systems of four countries namely, UK, USA, China and

			Switzerland. This course is an integral part of public service examinations and familiarizes students with the various types of governments of those countries.
VI	POL – HC– 6016	Modern Political Philosophy	Philosophy and politics are closely intertwined. We explore this convergence by identifying four main tendencies here. 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-II	Based on the study of individual thinkers, the course introduces a wide span of thinkers and themes that defines the modernity of Indian political thought. The objective is to study general themes that have been produced by thinkers from varied social and temporal contexts. Selected extracts from original texts are also given to discuss in the class. The list of additional readings is meant for teachers as well as the more interested students.
	POL-HE-6036	Women, power and politics	This course open's up the question of women's agency, taking it beyond "women's empowerment" and focusing on women as racial social agents. It attempts to question the complicity of social structures and relations in gender equality.
	POL-HE-6046	Social Movements in North-east India	It helps students to familiarize with social movements of the North-east India and their historical developments of such social movements of the region.
	POL-SE-6014	Conflict and Peace Building	This course is designed to help build an understanding of a variety of conflict situations among students in a way that they can relate to them through their lived experiences.

Programme outcome for Bachelor of Science:

• A student should be able to think critically: He/she should be able to take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

• A student should learn effective communication: Student should acquire the ability to speak, read, write and listen clearly in person and through electronic media in English and in at least one official language of Assam, and make meaning of the world by connecting people, ideas, books, media and technology.

• A student should learn Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

• A student should acquire the knowledge of Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

• A student should learn Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

• A student should acquire the knowledge of Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

• A student should acquire the knowledge of Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

• A student should understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevancies in the day-to-day life.

• A student should acquire the skills in handling scientific instruments, planning and performing in laboratory experiments,

• A student should acquire The skills of observations and drawing logical inferences from the scientific experiments.

• A student should be able to analyse the given scientific data critically and systematically and the ability to draw the objective and conclusions.

• A student should be able to think creatively to propose novel ideas.

• A student should realize how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable development.

• A student should be able to develop scientific outlook not only with respect to science subjects but also in all aspects related to life.

• A student should be imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

BOTANY

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Botany (Hons) syllabus prescribed by Gauhati University may be cited below:

- Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.
- Acquire depth and breadth of knowledge/expertise in the field of Plant Identification.
- Interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.
- Students will be able to collect datas, formulate and analyse the collecting data but applying scientific methods.
- Students will be able to present scientific hypotheses and data both orally and in writing in the formats.
- Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
- Students will be able to use physical principles (physics, chemistry) for bio- chemical analysis and also analyse data by using statistical and mathematical formulas
- Students will be able to identify the major groups_ plants and be able to classify them within a phylogenetic framework. They will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.
- Students will be able to use the evidence of comparative biology to explain the theory of evolution for the unity and diversity of life on earth. They will be able to use specific examples to explain how modification has shaped plant morphology, physiology, and life history.
- Students will be able to explain the functions at the level of gene, genome, cell, tissue, flower development of plants. They can also be able to give specific examples of physiological adaptations, reproductions, development and mode of life cycle of different forms of plants.
- Students will be able to explain the ecological interconnections among different life forms on earth by tracing nutrient and energy flow through environment and structure of populations, communities and ecosystems.

- Students will be able to explain the experimental techniques and methods of analysis for their area of specialization within biology.

COURSE OUTCOME

Semester	Paper Code	Paper Title	Course Outcome
I	BOT - HC – 1016	Phycology and Microbiology	• Understand the diversity among Algae. • Know the systematic, morphology and structure, of Algae. • Understand the life cycle pattern of Algae. • Understand the useful and harmful activities of Algae. • Understand the Microbial world and their diversity • Know the Economic Importance of Microbes • Know the harmful effects of microbes • Know the role of microbes in Research activities
	BOT - HC – 1026	Biomolecules and Cell biology	• Know the chemical nature of biomolecules. • Understand the different types of interaction in Biomolecules. • Structure and general features of enzymes. • Concept of enzyme activity and enzyme inhibition. • Understand the Biochemical nature of cell and cell organallies • Know about the cell divisions: mitosis & meiosis • Know the endomembrane system and protein transport
	BOT – HC– 2016	Mycology and Phytopathology	• Understand the Biodiversity of Fungi and understand the life cycle pattern of Fungi • Know the Economic Importance of Fungi • Know the terminologies in plant pathology.

II			• Understand the scope and importance of Plant Pathology. • Know the prevention and control measures of plant diseases and its effect on economy of crops.
	BOT – HC– 2026	Archegoniate	• Understand the morphological diversity of Bryophytes. • Understand the economical and ecological importance of the Bryophytes. • Know the taxonomic position, occurrence, thallus structure, reproduction of Bryophytes. • Understand the morphological diversity of Pteridophytes. • Understand the economic and ecological importance of the Pteridophytes • Know the taxonomic position, occurrence, thallus structure, reproduction of Pteridophytes. • Know the evolution of Bryophytes and Pteridophytes.
III	BOT – HC– 3016	Anatomy of Angiosperms	• Understand plant communities and ecological adaptations in plants. • Understand the tissues and tissue systems of Plants • Know the wood anatomy • Know the anatomical difference of dicot and monocot • Know the origin, development, arrangement and diversity in size and shape of leaves.
	BOT – HC– 3026	Economic Botany	• Know the major introduced plant species, concept of centre of origin and their importance • Know about crop domestication and loss of genetic diversity • Understand the evolution of new crops /varieties • Know about the germplasm diversity • Understand the economic importance of various plant species.

	BOT – HC– 3036	Genetics	• Know about the genomic organization or living organisms, study of genes genome, chromosome etc. • Gain knowledge on Mendels genetics and its extensions • Know about variation in chromosome number and structure • Understand about population and evolutionary genetics
	BOT-SE-3014	Biofertilizers	• Basic knowledge on the microbes used as biofertilizer and understand the process of their isolation, identification, mass multiplication, carrier based inoculants and knowledge on Actinorrhizal symbiosis • Concept on the general characteristics, isolation, mass multiplication carrier based inoculants of Azospirillum and Azotobacter also the knowledge on the crop response to Azotobacter • Basic knowledge on Cyanobacteria including factors affecting growth of Cyanobacteria, concept on the nitrogen fixation and use of blue green algae in rice cultivation • Brief knowledge on the Mycorrhizal association and understand the details of various types, taxonomy, occurrence, distribution and growth parameters of Mycorrhiza • Details about the organic farming, maintenance and recycling of biodegradable waste material and understand the methods of making biocompost and vermicompost with application
	BOT – HC– 4016	Molecular Biology	• Gain knowledge about the mechanism of DNA replication. • Gain knowledge of transcription in prokaryotes and eukaryotes. • Gain knowledge of Processing

IV			and modification of RNA. • Gain knowledge of protein synthesis, its modification and its involvement in formation of polypeptides.
	BOT – HC– 4026	Plant Ecology and Phytogeo- graphy	• Understands the inter-relationship between the living world and environment • Know the soil profile and role of climate in soil development • Understand the concept of ecology and its specification • Understands Ecosystem and its components • Understands the principles, endemism, biomes and phytogeographical divisions of India
	BOT – HC– 4036	Plant Systematics	• Gain knowledge of plant identification, concept of classification, principle and rules of nomenclature • Gain knowledge of origin and evolution of angiosperm and their evolutionary relationship • Know biometrics, numerical taxonomy and cladistics • Know the history of plant classification
	BOT-SE-4014	Nursery and Gardening	• Brief idea about objectives, scope, infrastructure and maintenance of Nursery • Concept on structure, types and dormancy of seeds and brief idea about seed storage including types and process and knowledge on seed production technology • Knowledge on various modes of vegetative propagation and maintenance of plants in green house • Brief idea about development and maintenance of gardening including scope and types and understand the various gardening operations including management of pests and diseases

			• Detail knowledge on managements of seeds and seedlings and concept about cultivation, storage and marketing of important vegetables
V	BOT – HC– 5016	Reproductive Biology of Angiosperm	• Gain knowledge of reproductive development of Angiospermic plant • Understand the pollination and fertilization mechanism • Gain knowledge embryo, endosperm, seed, structure and their development • Know about apomixes and polyembryony
	BOT – HC– 5026	Plant Physiology	• Gain knowledge of Plant water relationship • Gain knowledge of mineral nutrition, nutrient uptake and translocation • Gain knowledge of plant growth regulators, Physiology of flowerings • Gain knowledge of crytochromes and phototropins
	BOT-HE- 5016	Natural Resource Management	• Comprehensive knowledge on different types of natural resources and their ecological, economical and socio-cultural values • Basic understandings of land, water and forest resources • Overall knowledge on resource degradation, their judicious use and management for sustainability • Knowledge on biodiversity - its importance, management and Bioprospecting • Knowledge on IPR, and global arena on resource management, conservation and benefit sharing • Hands on experience on the domestic solid waste estimation and determining its impact on land degradation • Hands on experience on forest study using tools like GPS/GIS,

			and understanding of ecological importance of forest resources
	BOT - HE –5026	Horticultural Practices and Post-Harvest Technology	• Basic understandings on Horticultural science and its importance in employment generation and socio-economic development • Classification of horticultural crops, identification of potential horticultural crops – their cultivation, production, management and commercialization • Knowledge on horticultural techniques, landscaping and gardening • Overall knowledge on post-harvest technology, disease management, and germplasm management for horticulture • Field knowledge of gardening, nurseries, standing crops of horticultural importance
VI	BOT – HC– 6016	Plant Metabolism	• Understand the concept of Metabolism • Gain knowledge of mechanism of photosynthesis, respiration, ATP synthesis • Gain knowledge of Metabolisms of Carbohydrate, Lipid and Nitrogen • Understands the Mechanism of signal transduction
	BOT – HC– 6026	Plant Biotechnology	• Understand the method, utilization and importance of Plant Tissue culture. • Gain knowledge of DNA technology • Gene cloning and method of gene transfer. • Gain knowledge on application of Biotechnology
			• Understanding the roles of microbes in industries and environment • Basic knowledge of different kinds of bioreactors and

	BOT-HE-6016	Industrial and Environmental Microbiology	fermentation processes • Knowledge on production processes of some microbial products in industries through site visits • Knowledge on application of enzymes in industries • Diversity and distribution of microbes in air, water and soil • Basic understandings on water microbiology and water analysis methods • Usefulness of microbes in agriculture and bioremediation of contaminated soils • Practical experiences on basic microbiological techniques and handlings
	BOT-HE-6026	Analytical Techniques in Plant Sciences	• Knowledge on microscopy and imaging in plant science • Principles and application of centrifuge, spectroscopy and chromatography in biology • Basic knowledge on biostatistics including measures of central tendency and dispersions, statistical data analysis and representations • Practical knowledge on microscopy, chromatography, centrifugation and spectroscopy
	BOT-HE-6036	Project Work/Dissertation	Practical knowledge on addressing relevant scientific questions through experimentation

MSc in Botany

The M.Sc. - Botany programme is designed to equip students with essential knowledge and technical skills to study plants in a holistic manner. Students would be trained in all areas of plant biology using a unique combination of core and elective papers with significant interdisciplinary components. Students would be exposed to cutting-edge technologies that are currently used in the study of plant life forms, their evolution and interactions with other organisms within the ecosystem. Students would also become aware of the social and environmental significance of plants and their relevance to the national economy.

- A student completing the course is able to understand different specializations of Botany such as systematics, evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, cell & molecular biology of various life-forms.

- The student completing the course is trained in various analytical techniques of plant biology, use of plants as industrial resources or as human livelihood support system and is well versed with the use of transgenic technologies for basic and applied research in plants.

- The student completing the course is able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology, proteomics and transgenic technology. Students are also familiarized with the use of bioinformatics tools and databases and in the application of statistics to biological data.

- The student completing the course is capable of executing short research projects incorporating various tools and techniques in any of the basic specializations of Plant Sciences under supervision.

Course outcome:

Course: **BOT 1016 Diversity I – Algae, Fungi, Bryophytes**

- CO1. Knowledge on classification of different groups of algae and their distribution, understanding their phylogeny, life cycles, ecological roles and industrial applications.
- CO2. Comprehensive knowledge on fungal classification, phylogeny, physiological and ecological roles and their utilization as resource.
- CO3. Understand about the classification and nomenclature of viruses and bacteria and their reproductive mechanism.
- CO4. Understand the origin, evolution, classification of bryophytes and their biochemistry, physiology, ecology, diversity and distributional pattern in NE states and roles in the environment.

Course: **BOT 1026 Diversity II – Pteridophytes, Gymnosperms and Angiosperm**

- CO1.Comprehensive account on the origin, evolution, life cycle patterns pteridophytes
- CO2. Knowledge on fossil pteridophytes and gymnosperms and process of fossilization
- CO3.Understand about the classification, salient features and relationships of major taxa of living gymnosperms
- CO4. Knowledge on angiosperm taxonomy, recent International Codes on Nomenclatures, roles of botanical gardens and herbarium and BSI
- CO5. Understand about the phylogeny of major orders of angiosperm
- CO6. Knowledge on origin and evolution of floral parts, understanding the mechanism of co- evolution of flower and pollinator.

Course: **BOT 1036 Ecology, Environment and Resource Management**

- CO1.Knowledge on various components of environment and their interaction, comprehensive knowledge about the niche concept, resource utilization and character displacement
- CO2 Knowledge about the population and community, ecological succession, energy flow and mineral cycling in the environment
- CO3.Knowledge on biodiversity & conservation strategies of RET plants and their environment.
- CO4. Knowledge on environmental issues, pollution and their solutions.
- CO5. Knowledge about the origin and evolution of economically important plants, GMO, IPR, INM, IPM.

- CO6. Enriched with the concept of phytogeography, centre of origin of cultivated plants, endemism, endemic flora and vegetation pattern of NE India

Course: BOT 1044 Algae, Fungi, Bryophytes and Pteridophytes (Practical)

- CO1. Practical knowledge on algae, fungi, bryophytes, pteridophytes and lichen of NE region.

Course: BOT 1054 Gymnosperm, Angiosperm, Ecology (Practical)

- CO1. Practical knowledge on Gymnosperm and Angiosperm of NE region, Knowledge on population and community analysis.

Course: BOT 2016 Cytogenetic, Plant Breeding and Evolution

- CO1. Knowledge on cellular structures and organization; genome organization; prokaryotic and eukaryotic gene expression; DNA damage and repair.
- CO2. Knowledge on principles of plant breeding and evolution

Course: BOT 2026 Microbiology and Plant Pathology

- CO1. Knowledge on microbial diversity, techniques, microbial genetics and physiology
- CO2. Knowledge on principles plant pathology and mechanism of pathogenesis, immunology and applied microbiology.

Course: BOT 2036 Plant Physiology and Biochemistry

- CO1. Knowledge on structure and function of membranes and biomolecules.
- CO2.Knowledge on kinetics, regulation and mechanism of enzyme catalysis, protein synthesis and processing.
- CO3.Knowledge on mechanism of photosynthesis, respiration and photorespiration
- CO4. Knowledge on biosynthesis, storage, breakdown, transport, physiological effects and mechanism of action of plant hormones.
- CO5.Knowledge on sensory photobiology; transpirations solutes transport and photoassimilate translocation

Course: BOT 2044 Microbiology, Plant Pathology and Cytogenetics (Practical)

- CO1. Practical knowledge on isolation, identification of microbes from different habitat and preparation of pure culture.
- CO2. Practical Knowledge on plant pathogenic fungi.
- CO3. Practical Knowledge on chromosome behavior

Course: BOT 2054 Plant Physiology and Biochemistry (Practical)

- CO1. Practical knowledge on extraction and estimation of proteins, carbohydrate, phenolics and chloroplast pigments.
- CO2. Practical knowledge on TLC and paper chromatography

Course: BOT 3016 Reproductive and Developmental Botany, Biostatistics

- CO1. Knowledge on embryology and anatomy of plants.
- CO2. Knowledge on concept of palynology and microtechniques and their application
- CO3. Knowledge on Biostatistics and their applications in biology

Course: BOT 3026 Molecular Biology, Plant Biotechnology & Bioinformatics

- CO1. Detail knowledge on replication, repair and recombination of DNA; Synthesis andprocessing of RNA, small RNAs.
- CO2. Knowledge on concept and mechanism of cell signaling.
- CO3. Knowledge on genetic engineering, biosafety issues; plant tissue culture and bioinformatics

Course: BOT 3036 Environment and Forest Management

- CO1. Basic Knowledge on environment and biodiversity conservation applicable in day to day life
- CO2. Knowledge on forest and ecosystem will be helpful for Civil Service Examinations

Course: BOT 3044 Anatomy and Reproductive and Developmental Botany, Biostatistic (Practical)

- CO1.Practical knowledge on secondary growth in plants, sporogenesis and gametogenesis
- CO2. Practical knowledge on morphogenesis, organogenesis and anatomy of plants.

- CO3. Practical knowledge on concept of palynology and microtechniques and their application
- CO4.Practical knowledge on Biostatistics and their applications in biology

Course: BOT 3054 Molecular Biology, Plant Biotechnology & Bioinformatics (Practical)

- CO1. Hands on knowledge on isolation of proteins and DNA, PCR and tissue culture
- CO2. Practical knowledge bioinformatics, nucleotide search, BLAST, sequence alignment, protein modeling and structure prediction

Course: BOT 4015 Angiosperm Taxonomy-I

- CO1. Knowledge on basics of taxonomy, Classification including APG
- CO2. Concept of Taxa and characters, nomenclature and taxonomic literatures

Course: BOT 4025 Angiosperm Taxonomy-II

- CO1. Knowledge on molecular systematic, sources of taxonomic characters
- CO2. Tools and material basis of taxonomy

Course: BOT 4035 Angiosperm Taxonomy-III

- CO1. Knowledge on phytogeography, endemism, BSI and flora of NE India
- CO2. Knowledge on phylogeny of major orders of angiosperms

Course: BOT 4045 Angiosperm Taxonomy (Dissertation)

- CO1. Knowledge on solving taxonomic problems of Assam

Course: BOT 4054 Angiosperm Taxonomy (Practical)

- CO1. Practical knowledge on locally available taxa and their identification
- CO2. Practices on solving nomenclatural problems, herbarium specimens

Course: BOT 4165: Microbiology-I

- CO1.Knowledge on Microbial interactions, bioremediation, microorganisms in mining and energy production
- CO2. Knowledge on soil microbes, soil metagenomics

- CO3. Knowledge of Biofertilizers and biocontrol of plant diseases
- CO4. Knowledge on Industrial production of organic acids, antibiotics , ethanol, vitamins and amino acids

Course: BOT 4175: Microbiology-II

- CO1. Microbial genetics, tools and techniques of genetic engineering
- CO2.Knowledge conjugation, transduction and transformation in Bacteria
- CO3. Knowledge on microbial biotechnology for human welfare

Course: BOT 4185: Microbiology-III

- CO1.Knowledge of laboratory diagnosis and control of AIDS, hepatitis, swine flue
- CO2. Knowledge on immunology including immunity, antigen – antibodies
- CO3.Basic knowledge of mutagens and carcinogens in cancer biology

Course: BOT 4195 Microbiology (Dissertation)

- CO1. Knowledge on solving the problems of degraded systems by employing candidate microbes

Course BOT 4204 Microbiology (Practical)

- CO1. Practices on isolation of microbes from different habitats
- CO2. Practices on biochemical test for activity of microbes
- CO3. Practices on biochemical test for identification of bacteria
- CO4. Practices on isolation and quantification of plasmid/DNA/proteins
- CO5. Practices on mycorrhizal spore population and root colonization

Subject: CHEMISTRY

Programme Outcome (PO), Programme Specific Outcomes (PSO) and Course Outcomes (CO)

M C College, Barpeta is an affiliated college of Gauhati University and it is included in the list of colleges maintained under section 2(f) & 12(B) of the UGC Act 1956. While exercising academic activities, it follows the rules and guidelines framed by the parent university and University Grants Commission (UGC). UGC, in the document "Learning Outcomes-based Curriculum Framework for Undergraduate Education", has clearly identified what the learning outcomes of a General Undergraduate Degree Programme should be. Being a Higher Education Institute under the umbrella of UGC, we are following the Undergraduate Prgramme Outcome from the LOCF document of UGC. Our college constantly works to inculcate the graduate attributes in our students prescribed by UGC.

Programme Outcome

Students of all undergraduate general degree programmes at the time of graduation will be able to attain:

PO1 **Disciplinary knowledge:** Capability of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.

PO2 **Communication Skills:** Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

PO3 **Critical thinking:** Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.

PO4 **Problem solving:** Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

PO5 **Analytical reasoning**: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyse and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.

PO6 **Research-related skills:** A sense of inquiry and capability for asking relevant/appropriate questions, problematising, synthesising and articulating; Ability to recognise cause-and-effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation.

PO7 **Cooperation/Team work**: Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team.

PO8 **Scientific reasoning:** Ability to analyse, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

PO9 **Reflective thinking:** Critical sensibility to lived experiences, with self-awareness and reflexivity of both self and society.

PO10 **Information/digital literacy:** Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

PO11 **Self-directed learning:** Ability to work independently, identify appropriate resources required for a project, and manage a project through to completion.

PO12 **Multicultural competence:** Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.

PO13 **Moral and ethical awareness/reasoning:** Ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in all work. Capable of demonstrating the ability to identify ethical issues related to one's work, avoid unethical behaviour such as fabrication, falsification or misrepresentation of data or committing plagiarism, not adhering to intellectual property rights; appreciating environmental and sustainability issues; and adopting objective, unbiased and truthful actions in all aspects of work.

PO14 **Leadership readiness/qualities:** Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.

PO15 **Lifelong learning**: Ability to acquire knowledge and skills, including „learning how to learn", that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.

Programme Specific Outcomes

As an affiliated institute, our college has to implement the programme wise curriculum designed by the parent university. The programme specific outcomes are not clearly stated in syllabi and curriculum framed by Gauhati University. However, the UGC document on "learning outcome-based curriculum framework in Chemistry" has guided us to visualize the learning outcomes of a Chemistry undergraduate programme. We are trying hard to help the students acquire the PSOs as stated in the UGC LOCF document. A student graduating with the Degree B.Sc (Honours) in Chemistry from our college will be able to acquire the following attributes:

PSO 1 **Core competency**: Students will acquire following core competency in the subject Chemistry, and in allied subject areas.

(i) Systematic and coherent understanding of the fundamental concepts in Physical chemistry, Organic Chemistry, Inorganic Chemistry, Analytical Chemistry and all other related allied chemistry subjects.

(ii) Students will be able to use the evidence based comparative chemistry approach to explain the chemical synthesis and analysis.

(iii) The students will be able to understand the characterization of materials.

(iv) Students will be able to understand the basic principle of equipments, instruments used in the chemistry laboratory.

(v) Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Chemistry.

PSO 2 **Disciplinary knowledge and skill:** A graduate student will be capable of demonstrating comprehensive knowledge and understanding of both theoretical and experimental/applied chemistry knowledge in various fields of interest like Analytical Chemistry, Physical Chemistry, Inorganic Chemistry, Organic Chemistry, Material Chemistry, etc. Further, the student will be capable of using of advanced instruments and related softwares for in-depth characterization of materials/chemical analysis and separation technology.

PSO 3 **Communication Skill:** The course curriculum incorporates basics and advanced training in order to make a graduate student capable of expressing the subject through technical writing as well as through oral presentation.

PSO 4 **Critical thinking and problem solving:** The course curriculum also includes components that can be helpful to graduate students to develop critical thinking ability by way of solving problems/numerical using basic chemistry knowledge and concepts.

PSO 5 **Sense of inquiry:** It is expected that the course curriculum will develop an inquisitive characteristic among the students through appropriate questions, planning and reporting experimental investigation.

PSO 6 **Team work:** The course curriculum has been designed to provide opportunity to act as team player by contributing in laboratory, field-based situation and industry.

PSO 7 **Skilled project manager:** The course curriculum has been designed in such a manner as to enabling a graduate student to become a skilled project manager by acquiring knowledge about chemistry project management, writing, planning, study of ethical standards and rules and regulations pertaining to scientific project operation.

PSO 8 **Digitally literacy:** The course curriculum has been so designed to impart a good working knowledge in understanding and carrying out data analysis, use of library search tools, and use of chemical simulation software and related computational work.

PSO 9 **Ethical awareness/reasoning:** A graduate student requires to understand and develop ethical awareness/reasoning which the course curriculum adequately provide.

PSO 10 **Life-long learning:** The course curriculum is designed to inculcate a habit of learning continuously through use of advanced ICT technique and other available techniques/books/journals for personal academic growth as well as for increasing employability opportunity.

COURSE OUTCOME(CO)S of BSc HONOURS (Chemistry) PROGRAMME

Semester	Paper Code	Paper Title	Course Outcome
Semester I	CHE-HC-1016	INORGANIC CHEMISTRY-I	On successful completion, students would have clear understanding of the concepts related to atomic and molecular structure, chemical bonding, periodic properties and redox behaviour of chemical species. 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.
	CHE-HC-1026	PHYSICAL CHEMISTRY I	In gaseous state unit the students will learn the kinetic theory of gases, ideal gas and real gases. In liquid state unit, the students are expected to learn the qualitative treatment of the structure of liquid along with the physical properties of liquid, viz, vapour pressure, surface tension and viscosity. In the molecular and crystal symmetry unit they will be introduced to the elementary idea of symmetry which will be useful to understand solid state chemistry and group theory in some higher courses. In solid state unit the students will learn the basic solid state chemistry application of x-ray crystallography for the determination of some very simple crystal structures. The students will also learn another important topic "ionic equilibria" in this course.
	CHE-HC-2016	ORGANIC CHEMISTRY I	Students will be able to identify different classes of organic compounds, describe their reactivity and explain/analyze their chemical and stereo chemical aspects.
	CHE-HC-	PHYSICAL	In this course the students are expected to

Semester II	2026	CHEMISTRY II	learn laws of thermodynamics, thermochemistry, thermodynamic functions, relations between thermodynamic properties, Gibbs Helmholtz equation, Maxwell relations etc. Moreover, the students are expected to learn partial molar quantities, chemical equilibrium, solutions and colligative properties. After completion of this course, the students will be able to understand the chemical systems from thermodynamic point of view.
Semester III	CHE-HC-3016	INORGANIC CHEMISTRY-II	On successful completion of this course students would be able to apply theoretical principles of redox chemistry in the understanding of metallurgical processes. Students will be able to identify the variety of s and p block compounds and comprehend their preparation, structure, bonding, properties and uses. Experiments in this course will boost their quantitative estimation skills and introduce the students to preparative methods in inorganic chemistry.
	CHE-HC-3026	ORGANIC CHEMISTRY-II	Students will be able to describe and classify organic compounds in terms of their functional groups and reactivity.
	CHE-HC-3036	PHYSICAL CHEMISTRY-III	The students are expected to learn phase rule and its application in some specific systems. They will also learn rate laws of chemical transformation, experimental methods of rate law determination, steady state approximation etc. in chemical kinetics unit. After attending this course, the students will be able to understand different types of surface adsorption processes and basics of catalysis including enzyme catalysis, acid base catalysis and particle size effect on catalysis.
Semester	CHE-HC-4016	INORGANIC CHEMISTRY-III	On successful completion, students will be able name coordination compounds according to IUPAC, explain bonding in this class of compounds, understand their various properties in terms of CFSE and predict reactivity. Students will be able to appreciate the general trends in the properties of transition elements in the periodic table and identify differences among the rows. Through the experiments students not only will be able to prepare, estimate or separate metal complexes/compounds but also will be able to design experiments independently which they should be able to apply if and when

IV			required.
	CHE-HC-4026	ORGANIC CHEMISTRY-III	Students shall demonstrate the ability to identify and classify different types of N-based derivatives, alkaloids and hetrocyclic compounds/explain their structure mechanism and reactivity/critically examine their synthesis and reactions mechanism.
	CHE-HC-4036	PHYSICAL CHEMISTRY-IV	In this course the students will learn theories of conductance and electrochemistry. Students will also understand some very important topics such as solubility and solubility products, ionic products of water, conductometric titrations etc. The students are also expected to understand the various parts of electrochemical cells along with Faraday's Laws of electrolysis. The students will also gain basic theoretical idea of electrical & magnetic properties of atoms and molecules.
Semester V	CHE-HC-5016	ORGANIC CHEMISTRY-IV	Students will be able to explain/describe the important features of nucleic acids, amino acids and enzymes and develop their ability to examine their properties and applications.
	CHE-HC-5026	PHYSICAL CHEMISTRY V	After completion of this course the students are expected to understand the application of quantum mechanics in some simple chemical systems such as hydrogen atom or hydrogen like ions. The students will also learn chemical bonding in some simple molecular systems. They will able to understand the basics of various kinds of spectroscopic techniques and photochemistry.
	CHE-HE-5026	ANALYTICAL METHODS IN CHEMISTRY	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.
	CHE-HE-5056	POLYMER CHEMISTRY	After completion of this course the students will learn the definition and classifications of polymers, kinetics of polymerization, molecular weight of polymers, glass transition temperature, and polymer solutions etc. They also learn the brief introduction of preparation, structure and properties of some industrially important and technologically promising polymers.
	CHE-HC-	INORGANIC	By studying this course, the students will be

Semester VI	6016	CHEMISTRY-IV	expected to learn about how ligand substitution and redox reactions take place in coordination complexes. Students will also learn about organometallic compounds, comprehend their bonding, stability, reactivity and uses. They will be familiar with the variety of catalysts based on transition metals and their application in industry. On successful completion, students in general will be able to appreciate the use of concepts like solubility product, common ion effect, pH etc. in analysis of ions and how a clever design of reactions, it is possible to identify the components in a mixture. With the experiments related to coordination compound synthesis, calculation of 10Dq, controlling factors etc. will make the students appreciate the concepts of theory in experiments.
	CHE-HC-6026	ORGANIC CHEMISTRY-V	Students will be able to explain/describe basic principles of different spectroscopic techniques and their importance in chemical/organic analysis. Students shall be able to classify/identify/critically examine carbohydrates, polymers and dye materials.
	CHE-HE-6016	GREEN CHEMISTRY	Apart from introducing learners to the principles of green chemistry, this course will make them conversant with applications of green chemistry to organic synthesis. Students will be prepared for taking up entry level jobs in the chemical industry. They also will have the option of studying further in the area.
	CHE-HE-6056	DISSERTATION	• To develop critical thinking ability by way of solving problems using basic chemistry knowledge and concepts. • To develop an inquisitive characteristic among the students through appropriate questions, planning and reporting experimental investigation. • To enable a graduate student to become a skilled project manager by acquiring knowledge about chemistry project management, writing, planning, study of ethical standards and rules and regulations pertaining to scientific project operation. • To impart a good working knowledge in understanding and carrying out data

			analysis, use of library search tools, and use of chemical simulation software and related computational work.

COURSE OUTCOME(CO)S of BSc Generic Elective/Regular Core Courses

Semester	Paper Code	Paper Title	Course Outcome
Semester I	CHE-RC-1016 CHE-HG-1016	CHEMISTRY1: ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS	After completion of this course the students will learn the atomic structure through the basic concepts of quantum mechanics. They will understand the chemical bonding through VB and MO approaches. In organic part, the students are expected to learn basic ideas used in organic chemistry, stereochemistry, functional groups, alkanes, alkenes, alkynes etc.
Semester II	CHE-RC-2016 CHE-HG-2016	CHEMISTRY2: s- AND p-BLOCK ELEMENTS, TRANSITION ELEMENTS, COORDINATION CHEMISTRY, STATES OF MATTER & CHEMICAL KINETICS	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. 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.
Semester III	CHE-RC-3016 CHE-HG-3016	CHEMISTRY 3: CHEMICAL ENERGETICS, EQUILIBRIA & FUNCTIONAL ORGANIC CHEMISTRY-I	After completion of this course the students will able to understand the chemical system from thermodynamic points of view. They will also learn two very important topics in chemistry- chemical equilibrium and ionic equilibrium. In organic chemistry part, the students are expected to learn various classes of organic molecules-alkyl halides, arylhalides, alcohols, phenols, ethers, aldehydes and ketones.
Semester IV	CHE-RC-4016 CHE-HG-4016	CHEMISTRY4 SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE,	After completion of this course the students learn solutions, phase rule and its application in specific cases, basics of conductance and electrochemistry. Students will also learn some important topics of organic and

		ELECTROCHEMISTRY & FUNCTIONAL GROUP ORGANIC CHEMISTRY	biochemistry- carboxylic acids, amines, amino acids, peptides, proteins and carbohydrates.
Semester V	CHE-RE-5026	ANALYTICAL METHODS IN CHEMISTRY	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.
Semester VI	CHE-RE-6016	GREEN CHEMISTRY	Apart from introducing learners to the principles of green chemistry, this course will make them conversant with applications of green chemistry to organic synthesis. Students will be prepared for taking up entry level jobs in the chemical industry. They also will have the option of studying further in the area.

Subject: MATHEMATICS

PROGRAMME SPECIFIC OUTCOME

Specific outcome of BSc in **Mathematics (Hons/Generic/Regular)** syllabus prescribed by Gauhati University may be cited below:

- Communicate mathematics effectively by oral, written, computational and graphic means.
- Create mathematical ideas from basic axioms.
- Gauge the hypothesis, theories, techniques and proofs provisionally.
- Utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis.
- Identify applications of mathematics in other disciplines and in the real world, leading to enhancement of career prospects in a plethora of fields.
- Appreciate the requirement of lifelong learning through continued education and research.

COURSE OUTCOME of BSc (Honours)

Semester	Paper Code	Paper Title	Course Outcome
I	MAT - HC – 1016	**Calculus (including practical)**	✓ CO1. Learn first and second derivative tests for relative extremum and apply the knowledge in problems in business, economics and life sciences. ✓ CO2. Sketch curves in a plane using its mathematical properties in different coordinate systems. ✓ CO3. Compute area of surfaces of revolution and the volume of solids by integrating over cross-sectional areas. ✓ CO4. Understand the calculus of vector functions and its use to develop the basic principles of planetary motion.
			✓ CO1. Employ De Moivre's theorem in a number of applications to solve numerical problems. ✓ CO2. Learn about equivalent classes and cardinality of a set. ✓ CO3. Use modular arithmetic and basic properties of congruences.

	MAT - HC – 1026	**Algebra**	✓ CO4. Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix. ✓ CO5. Learn about the solution sets of linear systems using matrix method and Cramer's rule
II	MAT – HC– 2016	**Real Analysis**	✓ CO1. Understand many properties of the real line *R*, including completeness and Archimedean properties. ✓ CO2. Learn to define sequences in terms of functions from *N* to a subset of *R*. ✓ CO3. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence. ✓ CO4. Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
	MAT – HC– 2026	**Differential Equations(including practical)**	✓ CO1. Learn basics of differential equations and mathematical modeling. ✓ CO2. Formulate differential equations for various mathematical models. ✓ CO3. Solve first order non-linear differential equations and linear differential equations of higher order using various techniques. ✓ CO4. Apply these techniques to solve and analyze various mathematical models.
	MAT – HC– 3016	**Theory of Real Functions**	✓ CO1. Have a rigorous understanding of the concept of limit of a function. ✓ CO2. Learn about continuity and uniform continuity of functions defined on intervals. ✓ CO3. Understand geometrical properties of continuous functions on closed and bounded intervals. ✓ CO4. Learn extensively about the concept of differentiability using limits, leading to a better

III			understanding for applications. ✓ CO5. Know about applications of mean value theorems and Taylor's theorem
	MAT – HC– 3026	**Group Theory - I**	✓ CO1. Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc. ✓ CO2. Link the fundamental concepts of groups and symmetrical figures. ✓ CO3. Analyze the subgroups of cyclic groups and classify subgroups of cyclic groups. ✓ CO4. Explain the significance of the notion of cosets, normal subgroups and factor groups. ✓ CO5. Learn about Lagrange's theorem and Fermat's Little theorem. ✓ CO6. Know about group homomorphisms and group isomorphisms.
	MAT – HC– 3036	**Analytical Geometry**	✓ CO1. Learn conic sections and transform co-ordinate systems ✓ CO2. Learn polar equation of a conic, tangent, normal and properties ✓ CO3. Have a rigorous understanding of the concept of three dimensional coordinates systems.
	MAT-SE-3014	**Computer Algebra Systems and Related Software**	✓ CO1. Use of softwares; Mathematica/MATLAB/Maxima/Maple etc. as a calculator, for plotting functions and animations ✓ CO2. Use of CAS for various applications of matrices such as solving system of equations and finding eigenvalues and eigenvectors. ✓ CO3.Understand the use of the statistical software **R** as calculator and learn to read and get data into **R.** ✓ CO4. Learn the use of **R** in summary calculation, pictorial representation of data and exploring relationship between data. ✓ CO5. Analyze, test, and interpret

			technical arguments on the basis of geometry
IV	MAT – HC– 4016	**Multivariate Calculus**	✓ CO1. Learn the conceptual variations when advancing in calculus from one variable to multivariable discussion. ✓ CO2. Understand the maximization and minimization of multivariable functions subject to the given constraints ✓ CO3. Learn about inter-relationship amongst the line integral, double and triple integral formulations. ✓ CO4. Familiarize with Green's, Stokes' and Gauss divergence theorems
	MAT – HC– 4026	**Numerical Methods (including practical)**	✓ CO1. 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. ✓ CO2. Know about methods to solve system of linear equations, such as False position method, Fixed point iteration method, Newton's method, Secant method and LU decomposition. ✓ CO3. Interpolation techniques to compute the values for a tabulated function at points not in the table. ✓ CO4.Applications of numerical differentiation and integration to convert differential equations into difference equations for numerical solutions.
	MAT – HC– 4036	**Ring Theory**	✓ CO1. Appreciate the significance of unique factorization in rings and integral domains. ✓ CO2. Learn about the fundamental concept of rings, integral domains and fields. ✓ CO3. Know about ring homomorphism and isomorphism theorems of rings. ✓ CO4. Learn about the polynomial rings over commutative rings, integral domains, Euclidean

			domains, and UFD
	MAT-SE-4014	**R Programming**	✓ CO1. Become familiar with **R** syntax and to use **R** as a calculator. ✓ CO2. Understand the concepts of objects, vectors and data types. ✓ CO3. Know about summary commands and summary table in **R**. ✓ CO4. Visualize distribution of data in **R** and learn about normality test. ✓ CO5. Plot various graphs and charts using **R**.
V	MAT – HC–5016	**Riemann Integration and Metric spaces**	✓ CO1. Learn about some of the classes and properties of Riemann integrable functions, and the applications of the Fundamental theorems of integration. ✓ CO2. Know about improper integrals including, beta and gamma functions. ✓ CO3. 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. ✓ CO4. Analyse how a theory advances from a particular frame to a general frame. ✓ CO5. Appreciate the mathematical understanding of various geometrical concepts, viz. Balls or connected sets etc. in an abstract setting. ✓ CO6. 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. ✓ CO7. Learn about the two important topological properties, namely connectedness and compactness of metric spaces.
			✓ CO1. Learn about the concept of linear independence of vectors over a field, and the dimension of a vector space. ✓ CO2. Basic concepts of linear transformations, dimension

	MAT – HC– 5026	**Linear Algebra**	theorem, matrix representation of a linear transformation, and the change of coordinate matrix. ✓ CO3. 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. ✓ CO4. Compute inner products and determine orthogonality on vector spaces, including Gram−Schmidt orthogonalization to obtain orthonormal basis. ✓ CO5. Find the adjoint, normal, unitary and orthogonal operators.
	MAT-HE-5026	**Mechanics**	✓ CO1. Know about the concepts in statics such as moments, couples, equilibrium in both two and three dimensions. ✓ CO2. Understand the theory behind friction and center of gravity. ✓ CO3. Know about conservation of mechanical energy and work-energy equations. ✓ CO4. Learn about translational and rotational motion of rigid bodies.
	MAT- HE – 5066	**Programming in C (including practical)**	✓ CO1. Understand and apply the programming concepts of C which is important to mathematical investigation and problem solving. ✓ CO2. Learn about structured data-types in C and learn about applications in factorization of an integer and understanding Cartesian geometry and Pythagorean triples. ✓ CO3. Use of containers and templates in various applications in algebra. ✓ CO4. Use mathematical libraries for computational objectives. ✓ CO5. Represent the outputs of programs visually in terms of well formatted text and plots.
			✓ CO1. Learn the significance of differentiability of complex functions leading to the understanding of Cauchy−Riemann equations.

VI	MAT– HC–6016	**Complex Analysis (including practical)**	✓ CO2. Learn some elementary functions and can evaluate the contour integrals. ✓ CO3. Understand the role of Cauchy−Goursat theorem and the Cauchy integral formula. ✓ CO4. 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.
	MAT – HC–6026	**Partial Differential Equations (including practical)**	✓ CO1. Formulate, classify and transform first order PDEs into canonical form. ✓ CO2. Learn about method of characteristics and separation of variables to solve first order PDE's. ✓ CO3. Classify and solve second order linear PDEs. ✓ CO4. Learn about Cauchy problem for second order PDE and homogeneous as well as nonhomogeneous wave equations. ✓ CO5. Apply the method of separation of variables for solving second order PDEs.
	MAT-HE-6016	**Boolean Algebra and Automata Theory**	✓ CO1. Learn about the order isomorphism, Hasse diagrams, building new ordered set. ✓ CO2. Learn about the algebraic structure lattices, properties of modular and distributive lattices. ✓ CO3. Get ideas about the Boolean algebra, Switching circuits and applications of switching circuits. ✓ CO4. Appreciate the theory of automata and its applications
	MAT-HE-6066	**Group Theory II**	✓ CO1. Learn about automorphisms for constructing new groups from the given group. ✓ CO2. Learn about the fact that external direct product applies to data security and electric circuits. ✓ CO3. Understand fundamental theorem of finite abelian groups. ✓ CO4. Be familiar with group actions and conjugacy in Sn. ✓ CO5. Understand Sylow theorems

			and their applications in checking non-simplicity.

COURSE OUTCOME of BSc (Generic/Regular)

Semester	Paper Code	Paper Title	Course Outcome
I	MAT-HG/RC-1016	**Calculus**	✓ CO1. Learn differentiability, limit and continuity tests for functions. ✓ CO2. Learn different theorems along with their geometric properties. ✓ CO3.Understand continuity and differentiability in terms of limits. ✓ CO4. Describe asymptotic behaviour in terms of limits involving infinity. ✓ CO5. Use derivatives to explore the behavior of a given function, locating and classifying its extrema, and graphing the function. ✓ CO6. Understand the importance of mean value theorems.
II	MAT-HG/RC-2016	**Algebra**	✓ CO1. Employ De Moivre's theorem to solve problems. ✓ CO2. Learn about matrices, determinant and application in solving system of equations. ✓ CO3. Learn about vector space algebra and their application. ✓ CO4. Learn how to solve the cubic and biquadratic equations, also learn about symmetric functions of the roots for cubic and

			biquadratic. ✓ CO5. Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix. Finding inverse of a matrix with the help of Cayley-Hamilton theorem. ✓ CO6. Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, ring etc. ✓ CO7. Learn about the concept of linear independence of vectors over a field, and the dimension of a vector space
III	**MAT-HG/RC-3016**	**Differential Equations**	✓ CO1. Learn basics of differential equations and methods for solving. ✓ CO2. Solve first order non-linear differential equations and linear differential equations of higher order using various techniques.
IV	**MAT-HG/RC-4016**	**Real Analysis**	✓ CO1. Understand many properties of the real line R, including completeness and Archimedean properties. ✓ CO2. Learn to define sequences in terms of functions from R to a subset of R. ✓ CO3. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence. ✓ CO4. Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite

			series of real numbers. ✓ CO5. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit, algebra of limit and uniform continuity of functions. ✓ CO6. Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
V	MAT-RE-5026	**Discrete Mathematics**	✓ CO1. Understand the notion of ordered sets and maps between ordered sets. ✓ CO2. Learn about lattices, modular and distributive lattices, sublattices and homomorphisms between lattices. ✓ CO3. Become familiar with Boolean algebra, Boolean homomorphism, Karnaugh diagrams, switching circuits and their applications.
	MAT-SE-5014	**Combinatorics and Graph Theory**	✓ CO1. Learn about the counting principles, permutations and combinations, Pigeonhole principle ✓ CO2. Understand the basics of graph theory and learn about social networks, Eulerian and Hamiltonian graphs, diagram tracing puzzles and Knight's tour problem.
			✓ CO1. 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. ✓ CO2. Know about iterative and non-iterative methods

VI	**MAT-RE-6016**	**Numerical Analysis**	to solve system of linear equations. ✓ CO3. Know interpolation techniques to compute the values for a tabulated function at points not in the table. ✓ CO4. Integrate a definite integral that cannot be done analytically. ✓ CO5. Find numerical differentiation of functional values. ✓ CO6. Solve differential equations that cannot be solved by analytical methods.
	MAT-SE-6014	**LaTeX and HTML(P)**	✓ CO1. Create and typeset a LaTeX document. ✓ CO2. Typeset a mathematical document using LaTex. ✓ CO3. Learn about pictures and graphics in LaTex. ✓ CO4. Create beamer presentations. ✓ CO5. Create web page using HTML.

Subject: PHYSICS

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Physics (Hons) syllabus prescribed by Gauhati University may be cited below:

1. Knowledge of mathematical methods for vector analysis, vector differentiation, integration of vectors, curvilinear co- ordinate system, Matrix, differential equations, Algebric operation etc.
2. Ability to understood mechanics.
3. Ability to understood waves & oscillation.
4. Knowledge of ray optics wave optics and modern optics.
5. Ability to understand the properties of matter: elasticity, surface tension & viscosity.
6. Ability to understand electrostatic and magneto statics.
7. Knowledge of classical, quantum and statistical mechanics.
8. Knowledge of computer and ability to apply computer language.
9. Know Understanding the edge of astrophysics and nuclear physics.
10. Understanding the theory of relativity.
11. Ability to undertake project work.

COURSE OUTCOME

Semester	**Course Code**	**Course Name**	**Course Outcome**
I	PHY-HC-1016	Mathematical Physics I	Mathematical physics is considered as the language of physics. The knowledge on mathematical physics provides the students more problem solving skill and deep understanding on physics.
	PHY-HC-1026	Mechanics	This course would empower the student to acquire engineering skills and Practical knowledge, which help the student in their everyday life. This syllabus will cater the basic requirements for their higher studies. This course will provide a theoretical basis for doing experiments in related areas.
II	PHY-HC-2016	Electricity and magnetism	These courses help students to provide a sound foundation in electricity and electrodynamics as well as in basic electronics, which have the key role in the development of Modern technological world. It is also the theoretical foundation of different practical in physics.
	PHY-HC-2026	Wave and optics	This course builds on the ideas of harmonics motion to cover in-depth the concept of waves in physics with particular reference on sound and light wave as the special case. Upon successful completion of this course, the students will learn different wave and optical phenomena such as superposition, polarization, interference, diffraction and different diffraction of images.
III	PHY-HC-3016	Mathematical Physics II	This course also focuses on computer programming and numerical analysis to emphasize its role in solving problems in Physics
	PHY-HC-3026	Thermal physics	This course develops a working knowledge of thermodynamics and to use this knowledge to explore various aspect in material science and the physics of condensed matter. Kinetic theory of gases provide the nature of gases in different conditions like pressure, temperature, volume etc.

	PHY-HC-3036	Digital system and applications	This course will help to understand the functioning and operation of CRO to measure physical quantities in electrical and electronic circuits. Student will learn the basics of IC and digital circuits, and difference between analog and digital circuits, various logic GATES and their realization using diodes and transmitters. The fundamental of Boolean algebra and their role in constructing digital circuits will be learnt by students. Learning about combinatorial and sequential systems by building block circuits to construct multi-vibrators and counters will also be the part of the course. Understand basics of microprocessor and assembly language programming with examples will be provide in the last unit.
	PHY-SE-3014	Physics Workshop Skills	The aim of this course is to enable the students to familiar and experience with various mechanical and electrical tools through hands-on mode
IV IV	PHY-HC-4016	Mathematical Physics III	Knowledge of various mathematical tools like complex analysis, integral transform will equip the student with reference to solve a given ODE, PDE. These skills will help in understanding the behavior of the modeled systems. In the laboratory course, the students will apply their C^{++}/Scilab programming language to solve different problems like (i) Solution first- and second- order ordinary differential equations with appropriate boundary conditions, (ii) Evaluation of the Gaussian integrals, (iii) Evaluation of a converging infinite series up to a desired accuracy, (iv) Evaluation of the Fourier coefficients of a given periodic function, (v) Plotting the Legendre polynomials and the Bessel functions of different orders and interpretations of the results, (vi) Least square fit of a given data to a graph,

	PHY-HC-4026	Elements of Modern Physics	This course offer main aspects of the inadequacies of classical mechanics and understand historical development of quantum mechanics and ability to discuss and interpret experiments that reveal the dual nature of matter. This course provides the central concepts of quantum mechanics: wave functions, momentum and energy operator, the Schrodinger equation, time dependent and time independent cases, probability density and the normalization techniques, skill development on problem solving e.g. one dimensional rigid box, tunneling through potential barrier, step potential, rectangular barrier. The properties of nuclei like density, size, binding energy, nuclear forces and structure of atomic nucleus, liquid drop model and nuclear shell model and mass formula are also discussed in this course.
hh	PHY-HC-4036	Analog System and Applications	At the end of the course the student is expected to assimilate the following and possesses basic knowledge of the following, ▪ N and P- type semiconductors, mobility, drift velocity, fabrication of P-N junctions; forward and reverse biased junctions. ▪ Application of PN junction for different type of rectifiers and voltage regulators. ▪ NPN and PNP transistors and basic configurations namely common base, common emitter and common collector, and also about current and voltage gain. ▪ Biasing and equivalent circuits, coupled amplifiers and feedback in amplifiers and oscillators. ▪ Operational amplifiers and knowledge about different configurations namely inverting and non- inverting and applications of operational amplifiers in D to A and A to D conversions. ▪ To characterize various devices namely PN junction diodes, LEDs, Zener diode, solar cells, PNP and NPN transistors. Also construct amplifiers and oscillators using discrete components. Demonstrate inverting and non-inverting amplifiers using op-amps.

jnn	PHY-HC-5016	Quantum Mechanics and application	After an exposition of inadequacies of classical mechanics in explaining microscopic phenomena, quantum theory formulation is introduced through Schrodinger equation in this course. The interpretation of wave function of quantum particle and probabilistic nature of its location and subtler points of quantum phenomena are exposed to the student. Through understanding the behavior of quantum particle encountering a i) barrier, ii) potential, the student gets exposed to solving non-relativistic hydrogen atom, for its spectrum and eigen functions. Study of influence of electric and magnetic fields on atoms will help in understanding Stark effect and Zeeman Effect respectively.
V	PHY-HC-5026	Solid State Physics	This course provides an introduction to the physics of Condensed Matter or solid state physics. This study attempts to explain various types of phenomena like different crystalline unit cell, magnetic properties of matter, super-conductivity and super fluidity. This is considered as the basic concept towards the material science.
	HY-HE-5036(DSE)	Advanced Mathematical Physics-I	After the completion of this course, students will be able to solve problems in Physics related to Linear Vector space, Matrix algebra, Tensor.
	HY-HE-5056(DSE)	Nuclear and Particle Physics	Upon completion of this course, students will have the understanding of the sub atomic particles and their properties. They will gain knowledge about the different nuclear techniques and their applications in different branches of Physics and societal application. The course will develop problem based skills and the acquire knowledge can be applied in the areas of nuclear, medical, archeology, geology and other interdisciplinary fields of Physics and Chemistry.
VI	PHY-HC-6016	Electromagnetic Theory	Achieve an understanding of the Maxwell_s equations, role of displacement current, gauge transformations, scalar and vector potentials, Coulomb and Lorentz gauge, boundary conditions at the interface between different media. Apply Maxwell_s equations to deduce wave equation,

			electromagnetic field energy, momentum and angular momentum density and wave propagation in the unbounded, bounded, vacuum, dielectric, guided and unguided media. Understand the fundamentals of propagation of electromagnetic waves through optical fibres and calculate numerical apertures for step and graded indices and transmission losses.
	PHY-HC-6026	Statistical Mechanics	This course gives the basic concepts and definition of physical quantities in classical statistics and classical distribution law and the application of classical statistics to theory of radiation. Understanding the failure of classical statistics and need for quantum statistics. Learn the following statistics to derive and understand, 1. Bose Einstein statistics and its applications to radiation 2. Ferm-Dirac statistic and its applications to quantum systems.
	PHY-HE-6036	Advanced Mathematical Physics II	After competition of the course students will be able to apply the concepts of Calculus of Variations, Group Theory and Probability Theory to solve numerical problems in Physics.
	PHY-HE-6056	CLASSICAL DYNAMICS	Upon completion of this course, students will have the overview of Newton's Laws of Motion, Special Theory of Relativity by 4-vectoer approach and fluids. Students will also have the understanding of the Lagrangian and Hamiltonian of a system.. By the end of this course, students will be able to solve the seen or unseen problems/numericals in classical mechanics.

Subject: ZOOLOGY

PROGRAMME SPECIFIC OUTCOME

Specific outcome of Zoology major syllabus prescribed by Gauhati University may be cited below:

- Broad understanding of animal diversity, including knowledge of the scientific classification; evolutionary relationships among the animals and the adaptations they show.

- Understanding of ecology and relationship between biological, chemical and physical factors of the environment; the need of wildlife conservation and management.

- Understanding of how organisms function at the level of the gene, genome, cell, tissue, organ and organ-system. Drawing upon this knowledge, they are able to study the histology and comprehend the comparative anatomy of the organisms.

- Understanding of the development, growth, reproduction, various structural and physiological adaptations as well as behaviour of different forms of animal life.

- Understanding the relationships between structure and functions at different levels of biological organization (e.g., molecules, cells, organs, organisms, populations, and species) in animals and their coordinated function (Physiological, Biochemical, Endocrine and Immune system).

- Understanding the Biological Techniques, Bioinformatics and the application of statistics in Biological science.

- Understanding of the applied biological sciences or economic Zoology such as sericulture, apiculture, aquaculture, lac culture, pest and its management for their career opportunities.

- Make able to think logically from the knowledge gathered undertaking research project, assimilate and analysis of the data and ideas and concluding in the form of project report.

COURSE OUTCOME

COURSE OUTCOME

(B.Sc. Generic/Regular)

ANIMAL DIVERSITY CODE: ZOO-RC-1016 (THEORY) (CREDITS 4)

- The students will have a knowledge on various classes of animals ranging from Protista to Mammalia.
- Basis of classification of Animals.
- Rules for identification of animals of various classes.
- Specific characters of various classes of animals.
- Functional and physiological aspects of specific animal groups.
- Evolutionary relationship among successive groups of animals.

COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES CODE: ZOO-RC-2016 THEORY (CREDITS 4)

- Successive stages of modification of specific organs and organ systems in groups of vertebrates ie. Succession of ograns in various groups of vertebrates.
- Idea about early embryonic development in frog, bird and mammals.
- A brief idea on implantation in mammals.
- Generate idea on metamorphosis.
- Develop idea about genetic control of development.

PHYSIOLOGY AND BIOCHEMISTRY CODE: ZOO-RC-3016 (credit 4)

- Develop idea about the functioning of various systems of animals like nervous system, muscles, digestive, respiratory, excretory, cardiovalsular, reproductive and endorcrine system.
- Learn about metabolism of Carbohydrate, Lipid and Protein.
- Understanding the mechanism of enzyme action, enzyme kinetics and regulation.
- To gain a practical idea about the structures of various tissues and endocrine glands and be able to identify them.

GENETICS AND EVOLUTIONARY BIOLOGY CODE: ZOO-RC-4016 THEORY (CREDITS 4)

- To develop ideas about genetics and its different aspects.
- To develop basic ideas about the causes of evolution.
- To develop knowledge on genetic mechanism related to evolutionary changes.
- To develop the concept of species and role of extinction in evolution.

- To undetstand the various evidences of evolution with the help of models/ pictures and diagrams.

DSE 2 APPLIED ZOOLOGY CODE: ZOO-RE-5026 THEORY (CREDITS 4)

- To have an idea about Host-parasite Relationship
- To generate a brief on Epidemiology of Diseases and their causing agents.
- To identify and study the life cycle of different medically and economically important insects.
- To generate a brief idea about genetic improvements in aquaculture, animal husbandary and poultry farming.

Zoo RE- 6016 Aquatic Biology (Credit 4)

- To familiarize the students about Aquatic resources.
- Management of aquatic resources.
- Understand pollution of aquatic resources and their control measures.

ZOO-SE-3014 ORNAMENTAL FISH AND FISHERIES

- Make students familiar with the ornamental fish diversity of NE India.
- Detail knowledge on construction and management of Home Aquarium.
- Brief idea on feed formulation of Ornamental fishes.
- Practical knowledge on Aquarium maintenance.
- Comprehensive knowledge planktons and their culture.

ZOO-SE-4014 APICULTURE

- Make students familiar with the economic benefits of Apiculture.
- Understand the biology of bees.
- To develop ideas on bee rearing.
- Practical knowledge on modern methods of Apiculture.
- Identification of bee diseases and enemies and their control methods.

ZOO-SE- 5016 NON MULBERY SERICULTURE.

- To gain knowledge on the life history and rearing of non-mulberry silk worms.
- To develop basic ideas on food of silk worms, diseases and their control.
- To become acquainted with the food plants of non-mulberry silk worms.
- Knowledge on employment generation and potential of sericulture.

ZOO-SE-6014 WILD LIFE PHOTOGRAPHY AND ECOTOURISM

- To develop expertise in Wildlife photography.
- Learn about about methods of documentation.
- To develop ideas of Eco tourism.
- Knowledge on scope of Eco tourism in NE region of India

COURSE OUTCOME IN B.Sc. ZOOLOGY

CORE COURSE I CODE: ZOO-HC-1016

NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES

- The students will have a knowledge on various classes of animals ranging from Protista to Pseudocoelomates.
- Basis of classification of these animals.
- Rules for identification of these animals of various classes.
- Specific characters of these classes of animals.
- Functional and physiological aspects of such animal groups.
- Evolutionary significance among such groups of animals.

CORE COURSE II CODE: ZOO-HC-1026

PRINCIPLES OF ECOLOGY THEORY (Credits 4)

- To generate idea on Ecosystem structure and function.
- Basic knowledge on population interactions.
- To gain knowledge on Wild life conservation and management.
- Practical knowledge on various parameters of ecosystem with the help of statistical methods

CORE COURSE III ZOO-HC-2016 NON CHORDATES II: COELOMATES

- The students will have a knowledge on various classes of animals ranging from Annelida to Echinodermata.
- Basis of classification of these animals.
- Specific characters of these classes of animals.
- Functional and physiological aspects of such animal groups.
- Gain knowledge on some special physiological and behavioural aspects of such animal groups.

CORE COURSE IV ZOO-HC-2026 CELL BIOLOGY

- To understand the details about the internal environment of cell
- Basic idea on cell cycle, cell division and its regulation.

- Understanding the importance of different cell organelles
- Practical knowledge on chromosomes and DNA study.

CORE COURSE V ZOO-HC-3016 DIVERSITY OF CHORDATA

- The students will have a knowledge on various classes of Chordates
- Basis of classification of these animals.
- Specific characters of these classes of animals.
- Functional and physiological aspects of such animal groups.
- To generate idea about connecting links between different classes of chordates.
- Brief idea about adaptive radiation.

CORE COURSE VI ZOO-HC-3026
ANIMAL PHYSIOLOGY: CONTROLLING AND CO ORDINATING SYSTEM

- Knowledge on co-ordination between various tissue systems of animals.
- Generate idea on molecular and chemical basis of muscle contraction, nerve impulse transmission and bone development.
- To have an idea about endocrine system and control of different organs
- Practical knowledge on tissue size and shapes
- Brief kbowledge on permanent slide preparation.

ZOO-HC-3036 FUNDAMENTALS OF BIOCHEMISTRY

- To generate knowledge on different bio molecules (structure and functions)
- Knowledge on Enzyme classification, mechanism of action, Kinetics and their regulation.
- To generate idea on different chemical bonds present in carbohydrate. Protein and lipid etc.
- Practical knowledge on factors associated with enzyme action

ZOO-HC-4016 ANATOMY OF VERTEBRATES

- To develop an overview on different organ systems of vertebrates.
- To have an idea about comparative account on brain, kidney heart, etc.
- Brief account of visual and auditory mechanicm in man.
- Practical knowledge on skeletal modifications in vertebrates.

ZOO-HC-4026 ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS

- Study on physiology of digestion. Respiration, excreation and circulation.
- Knowledge on hormonal control of different physiological system.
- Detail knowledge on blood components and their properties.
- Practica knowledge on blood grouping and nalysing.
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ZOO-HC-4036 BIOCHEMISTRY OF METABOLIC PROCESSES

- Basic ideas on sequence of reactions and regulation of carbohydrate, lipid and protein metabolism.
- Idea on ATP generation through ETS.
- Practical knowledge on activity of different enzymes.

ZOO-HC-5016 MOLECULAR BIOLOGY (CREDITS 4)

- Generate idea on structure of DNA and RNA
- To know in detail how the molecule of DNA replicates
- What is transcription and how does it occur and what are post transcriptional processes.
- Develop idea on Protein synthesis and its mechanism.
- Idea on gene reagulation.
- Understand how DNA damages occur and how they are repaired.
- Gain practical knowledge on structure of Chromosomes, growth of E. coli bacteria.
- Be able to estimate the amount of RNA.

ZOO-HC-5026 PRINCIPLES OF GENETICS (CREDITS 4)

- Students will be able to generate idea on Mendelian genetics.
- Causes of variations in genetic materials- Linkage and Crossing over, Mutation, Sex determination.
- Generate idea on extrachromosomal inheritance, Polygenic inheritance, Recombination in bacteria and virus, Transposable Genetic Elements.
- Practical idea on application of Mendel's laws, Linkage maps, Karyotype studies and Pedigree analysis.

ZOO-HE-5036 ENDOCRINOLOGY THEORY (CREDITS 4)

- Generate idea on History of endocrinology and Hormonal functions
- Structure and functions of various endocrine glands
- Develop idea on regulation of hormone actions.
- Students will be able to identify different endocrine glands in animals.

DSE ZOO-HE-5016- COMPUTATIONAL BIOLOGY AND BIOSTASTISTICS

- Students will have an idea of Bioinformatics.
- Students will know about Biological database, Data generation and Retrival.
- Generate basic idea about basic concepts Sequence Alignment.
- Knowledge on application of Bioinformatics and Biostatistics.

DEVELOPMENTAL BIOLOGY CODE: ZOO-HC-6016 (THEORY (CREDITS 4)

- Students shall have an idea on Historical perspective and basic concepts: Phases of development, Cell-Cell interaction, Pattern formation, Differentiation and growth, Differential gene expression, Cytoplasmic determinants and asymmetric cell division.

- Students will acquire knowledge about the early, late and post embryonic development.
- They will also acquire knowledge on implications of developmental biology like Teratogenesis, Invitro fertilization and Stem cell, and Amniocentesis.

EVOLUTIONARY BIOLOGY CODE: ZOO-HC-6026 THEORY (CREDITS 4)

- Generate idea about the origin of life.
- Be able to understand and analyse the various evidences of evolution.
- Understand the role of variation in evolution.
- Generate idea about Population genetics.
- Understand the changes of evolution.
- Processes of species extinction and evolution of man.
- Develop idea on Phylogenetic tree.

ZOO-HE-6026 FISH AND FISHERIES THEORY

- Learn about Classification, Morphology, Physiology of fishes.
- Types and management of different fisheries
- Knowledge on Aquaculture and application of fish in research.

ZOO-HE-6056 DISSERTATON

- Through this paper the students shall have to prepare a dissertation under the supervision of faculty members.
- They will acquire knowledge on undertaking scientific studies, analyze data and bring out findings and inferences.
- They will also learn to prepare reports on scientific studies.

Subject: COMPUTER SCIENCE

CO1: Introduction to Programming Language: This paper will develop the ability to learn new languages more quickly to understand the concept of functional programming language Develop ability to learn and write small programs in different programming Languages.

CO2: Basic Electronics: This paper will develop the ability to check the hardware issues in any electrical devices.

CO3: Practical Programming in C: This paper will develop the ability to learn basic programming skills and enhances the problem solving capacity using computer programming.

O4: ICT Hardware:- This paper specially focuses to understand the structure, function and characteristics of computer systems, to understand the design of the various functional units and components of computers. This paper also includes MS Word, MS power point, MS excel contents.

CO5: Discrete Mathematics: Students will be bale to learn functionalities of basic logic gates and Boolean Algebra and other discrete mathematics applications in computer science.

CO6: Practical ICT Hardware:- This paper specially focuses on the hardware part of the

Computer system specially the motherboard parts, diagnosis also Practical of MS office (MS power point, MS Excel, MS Word etc.).

CO7: Data Structures: This paper will develop the ability to learn the structures of data and how data can actually be organized and stored in computer memory.

CO8: Computer Organization and Architecture: This paper specially focuses to understand the structure, function and characteristics of computer systems, to understand the design of the various functional units and components of computers, identify the elements of instructions sets and their impacts on processor design, to explain the function of each element of a memory hierarchy and to identify and compare different methods for computer I/O modules.

CO9: Practical Data Structure :This paper provides practical approaches to design the available user defined data structures using programming language

CO10: Operating System: This paper focuses to understand the basic components of a

computer operating system, and the interactions among the various components. The course covers an introduction on the policies for disk scheduling, CPU scheduling, deadlocks, memory management, synchronization, system calls, and file systems.

CO11: Database Management System: This paper will develop the ability to learn the structural knowledge of data storage. It covers the introduction of Database and DBMS.

CO12: Practical Operating System DBMS: This paper will develop the practical based

knowledge of database management system.

CO13: Object Oriented Programming using C++: This paper specially focuses to students

understand the principles of object-oriented problem solving and programming. This paper also analyse problems and implement simple C++ application using an object-oriented software engineering approach. After completing this subject student will be able to learn the concept of object, class, Inheritance and polymorphism.

CO14: Computer Oriented Numerical Methods and Statistical Techniques: This paper specially focuses on solving various numerical methods theoretically like Bisection, NewtonRaphson, Simpson's rules, Runge-Kutta, Polynomials etc. with the help of computer programming.

CO15: Computer Networks: - This paper focuses to understand and describe the layered protocol model and describe,analyse and evaluate a number of data link, network, and transport layer protocols ,and evaluate networks and services homes,data centres,LANs,WANs.This paper also teach program network communication services for client/server and other applications layouts.This paper describes,anaylse and evaluate various related technical,administrative and social aspects of specific computer network protocols from standards documents and other primary materials found through research.

CO16: Microprocessor and Assembly Language Programming: This paper specially focuses to understand the structure, function and characteristics of computer systems, to understand the design of the various functional units and components of computers and different architectures which supports processor,provides interface for i/o devices,maintains timing and control of the computer.This paper will also help to learn assembly language program which helps students understanding the processor and memory functions,using assembly language program we can generate traffic control signal etc.This subjects also helps to identify the elements of instructions sets and their impacts on processor design, to explain the function of each element of a memory hierarchy and to identify and compare different methods for computer I/O modules.

CO17: Practical Object Oriented Programming and Computer Networks: This Lab paper

specially focuses on practical implementation of Object Oriented Programming through C++ language and Computer Networks protocols and other terminologies relating to it.

CO18: Practical Computer Oriented NMST Microprocessor and Assembly Language

Programming: This paper specially focuses on the practical of Computer oriented numerical methods like Bisection, Newton-Raphson, Simpson's rules etc. and assembly language programming.

CO19: Automata Theory and Languages: This paper focuses to understand the basic properties of Formal Languages and Grammars of Regular, Context-Free and Recursively Enumerable languages, study on grammars to produce strings from a specific language. It also acquires concepts relating to the theory of computation and computational models.

CO20: Web Technologies: On completion of this paper, a student will be familiar with clientserver architecture and able to gain basics of developing and hosting a web application using HTML, JAVASCRIPT, CSS, XML, ASP, PHP etc.

CO21: System Administration using Linux: This paper focuses to understand and describe the basics of file structures and processing with files using commands and System maintenance, Disk usage, User management, Networking and IP addressing basics and other system administration related tasks.

CO22: Practical Web Technologies System Administration using Linux: One part of this paper focuses on practical approaches to design, develop and host a web application using various languages and other part of the paper helps students to become familiar with Linux environment with various commands and tools and techniques learnt in the theory paper of System Administration using Linux.

CO23: Project: Each student is assigned with a project work based the knowledge and concepts of previous subjects taught to them and it strongly emphasizes on how a software is designed and developed from the stage of feasibility analysis to maintenance of the software.