COURSE OUTCOME

BA/BSC/BCOM HONOURS & NON-HONOURS COURSES / PGDCA COURSES

DULIAJAN COLLEGE

PROGRAMME	NATURE OF COURSE	COURSE	COURSE OUTCOME
B.A. ASSAMESE HONOURS	CORE COURSES (COMPULSORY COURSES)	C-1: HISTORY OF ASSAMESE LITERATURE (UPTO THE ERA OF SRI SRI SANKARDEVA)	এই কাকতৰ যোগেদি প্ৰথমতে অসমীয়া সাহিত্যৰ যুগবিভাজনৰ পৰিচয়েৰে ছাত্ৰ-ছাত্ৰীসকলক অসমীয়া সাহিত্যৰ সমগ্ৰ পৰিক্ৰমাৰ এক সাধাৰণ পৰিচয় প্ৰদান কৰি লৈ তাৰ পাছত লোক সাহিত্যৰ পৰা শংকৰোত্তৰ যুগলৈকে বচিত অসমীয়া সাহিত্যৰাজিৰ সামগ্ৰিক গতি-প্ৰকৃতিৰ ধাৰণা দিবলৈ বিচৰা হৈছে।
		C-2: HISTORY OF ASSAMESE LITERATURE (FROM ARUNUDOI THE ERA TO PRESENT)	সাহিত্যৰ বুৰঞ্জীৰ অন্তৰ্গতভাৱে ছাত্ৰ-ছাত্ৰীসকলক আধুনিক অসমীয়া ভাষা-সাহিত্যৰ প্ৰতিষ্ঠাকালৰেপৰা সাম্প্ৰতিক কাললৈকে সাহিত্যৰ গতি-প্ৰকৃতিৰ ধাৰণা প্ৰদানেই এই কাকতৰ উদ্দেশ্য।
		C-3: INTRODUCTION TO LINGUISTICS	প্ৰাচ্য আৰু পাশ্চাত্যৰ ভাষা সম্পৰ্কীয় চিন্তা-চৰ্চাৰ ইতিহাস জনাৰ লগতে ভাষা আৰু ভাষাবিজ্ঞান সম্পৰ্কীয় বিভিন্ন দিশসমূহৰ পৰিচয় পাব পৰাকৈ এই কাকতখন প্ৰস্তুত কৰা হৈছে।
		C-4: POETICS	অসমীয়া সাহিত্য অধ্যয়নৰ তাত্ত্বিক আধাৰৰূপে ভাৰতীয় তথা পাশ্চাত্য সাহিত্যতত্ত্বৰ জ্ঞান অপৰিহাৰ্য। এই দুয়ো পৰস্পৰাৰ সাহিত্যতত্ত্বৰ প্ৰাথমিক জ্ঞান দিবৰ বাবে এই কাকত প্ৰস্তুত কৰা হৈছে।
		C-5: LITERARY CRITICISM	সাহিত্য সমালোচনা সাহিত্য অধ্যয়নৰ অপৰিহাৰ্য অংগ। সেয়েহে বিভিন্ন প্ৰকাৰৰ সাহিত্য সমালোচনাৰ পৰিচয় আৰু পদ্ধতি তথা বিভিন্ন প্ৰকাৰৰ সাহিত্যৰ স্বৰূপ সম্পৰ্কীয় ধাৰণা প্ৰদান এই কাকতৰ উদ্দেশ্য।
		C-6: SELECTION FROM ASSAMESE POETRY	লোককবিতাৰে যাত্ৰা আৰম্ভ কৰা অসমীয়া কবিতাই চৰ্যাপদৰ ৰূপত প্ৰথম লিখিত ৰূপ গ্ৰহণ কৰে। অসমীয়া কবিতাৰ ইতিহাস তথা গতি-প্ৰকৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীক অৱগত কৰোৱা এই কাকতখনৰ প্ৰধান উদ্দেশ্য। ইয়াৰ বাবে লোককবিতাৰে আৰম্ভ কৰি চৰ্যাপদ-প্ৰাক্‌শংকৰী-শংকৰী-শংকৰোত্তৰ যুগ আৰু বৰ্তমান অসমীয়া কবিতাৰ পৰা উল্লেখযোগ্য কেইটিমান চানেকিৰ অধ্যয়নো এই কাকতত সন্নিবিষ্ট কৰা হৈছে। ইয়াৰপৰা ছাত্ৰ-ছাত্ৰীসকলে আৰম্ভণিৰেপৰা বৰ্তমান কাললৈ অসমীয়া কবিতা সম্পৰ্কে স্পষ্ট ধাৰণা লাভ কৰিব পাৰিব।
		C-7: STUDIES ON THE CULTURE OF ASSAM	সংস্কৃতিৰ সাধাৰণ ধাৰণাসহ অসমৰ নৃ-গোষ্ঠী আৰু সংস্কৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীক অৱগত কৰাৰৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।
		C-8: THEORY AND PRACTICE OF COMPARATIVE LITERATURE	এইখন কাকতে সাহিত্য অধ্যয়নৰ জগতত উদীয়মান বিষয় তুলনামূলক সাহিত্যৰ সাধাৰণ ধাৰণা দিয়াৰ লগতে ভাৰতীয় সাহিত্য তথা অসমীয়া সাহিত্যৰ প্ৰেক্ষাপটত তুলনামূলক সাহিত্য অধ্যয়নৰ প্ৰাসংগিকতা আৰু প্ৰণালীৰ আভাস দিব।

		C-9: INDO-ARYAN LANGUAGES AND ASSAMESE	ভাৰতীয়া আৰ্যভাষাৰ ক্ৰমবিকাশৰ ৰূপৰেখা আৰু সংস্কৃত, পালি আৰু প্ৰাকৃত ব্যাকৰণৰ বৈশিষ্ট্যসমূহৰ পৰিচয় পাব পৰাকৈ কাকতখন প্ৰস্তুত কৰা হৈছে। সংস্কৃত, পালি আৰু প্ৰাকৃত ভাষাৰ স্বৰূপৰ লগত পৰিচয় প্ৰদানৰ বাবে এই ভাষাবোৰৰ নিৰ্বাচিত পাঠ দিয়া হৈছে।
		C-10: SELECTION FROM ASSAMESE PROSE	প্ৰাচীন কালতে উদ্ভৱ ঘটা অসমীয়া গদ্য সাহিত্যই আধুনিক কালত আহি বৈবিধ্য-বৈচিত্ৰ্যময় ৰূপ লাভ কৰেহি। এই কাকতত অসমীয়া গদ্য সাহিত্যৰ উদ্ভৱ তথা বিকাশধাৰা সম্পৰ্কে জানিবৰ বাবে চমু পৰিচয়সহ অসমীয়া গদ্যৰ জনক ভট্টদেৱৰপৰা আৰম্ভ কৰি বৰ্তমানলৈকে অসমীয়া গদ্য সাহিত্যৰ নিৰ্বাচিত অংশ সন্নিবিষ্ট কৰা হৈছে।
		C-11: ASSAMESE DRAMA	অসমীয়া নাট্য সাহিত্যৰ ইতিহাস অন্যান্য ভাৰতীয় ভাষাসমূহতকৈ তুলনামূলকভাৱে অধিক সমৃদ্ধ। এই কাকতৰপৰা ছাত্ৰ-ছাত্ৰীসকলে প্ৰাচীন কালৰেপৰা পাশ্চাত্য লক্ষণসম্বলিত আধুনিক নাটকলৈকে অসমীয়া নাটকৰ চমু ইতিহাস জনাৰ লগতে নিৰ্বাচিত অসমীয়া নাটকৰ অধ্যয়নেৰে অসমীয়া নাট্য সাহিত্যৰ গতি-বিধি সম্পৰ্কে জানিব পাৰিব।
		C-12: STUDIES OF ASSAMESE LINGUISTICS	অসমীয়া ভাষাৰ ধ্বনিতত্ত্ব, ৰূপতত্ত্ব, বাক্যতত্ত্বৰ সম্পৰ্কে পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে। ইয়াৰ লগত সংগতি ৰাখি ধ্বনিবিজ্ঞানৰ তাত্ত্বিক জ্ঞান লাভৰ বাবে বাগিন্দ্ৰিয়ৰ পৰিচয়, ধ্বনি, বৰ্ণ, উপধ্বনিৰ সংজ্ঞা আৰু ধ্বনি পৰিবৰ্তনৰ নিয়মসমূহ প্ৰথম গোটটিত সন্নিবিষ্ট কৰা হৈছে।
		C-13: SELECTION FROM ASSAMESE PROSE	অসমীয়া গদ্যৰ নিৰ্বাচিত অংশৰ অধ্যয়নৰ যোগেদি আধুনিক কালৰ ভসৃষ্টিশীল গদ্য সাহিত্যৰ বৈবিধ্য-বৈচিত্ৰ্য তথা গতি-প্ৰকৃতি সম্পৰ্কে ছাত্ৰ-ছাত্ৰীয়ে জানিব পৰাকৈ এই কাকত প্ৰস্তুত কৰা হৈছে।
		C-14: LANGUAGE AND SCRIPT OF ASSAM	এই কাকতখনৰ যোগেদি অসমৰ ভাষাৰ সাধাৰণ পৰিচয়ৰ লগতে অসমীয়া ভাষা আৰু উপভাষাৰ সাধাৰণ পৰিচয় ছাত্ৰ-ছাত্ৰীসকলে পাব পাৰিব। অসমৰ ভাষাৰ ভাষাতাত্ত্বিক বৈশিষ্ট্য, অসমীয়া ভাষা আৰু আৰ্যভিন্ন ভাষাৰ আদান-প্ৰদান ইত্যাদি বিষয়সমূহৰ সামগ্ৰিক পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE-1: ASSAMESE GRAMMAR, LEXICON AND IDIOMATIC USAGES**	অসমীয়া ভাষাৰ শুদ্ধ উচ্চাৰণ, শুদ্ধ আখৰ জোটনি, অসমীয়া জতুৱা ঠাঁচ আৰু খণ্ডবাক্যৰ প্ৰয়োগৰ লগতে উপযুক্ত পৰিভাষাৰ প্ৰয়োগ, অসমীয়া ব্যাকৰণৰ বিবিধ দিশ আৰু অসমীয়া অভিধানৰ সাধাৰণ পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।
		DSE-2: INTRODUCTION TO INDIAN LITERATURE	বহু ভাষাৰে প্ৰকাশ লাভ কৰা ভাৰতীয় সাহিত্যৰ একক ৰূপত পৰিচয় প্ৰদানৰ লগতে নিৰ্বাচিত ৰচনাৰ অধ্যয়নৰ যোগেদি তাৰ কিছু আভাস দিবৰ উদ্দেশ্যেৰে এই কাকতখনি পাঠ্যক্ৰমত সন্নিবিষ্ট কৰা হৈছে।
		DSE-3: INTRODUCTION TO WORLD LITERATURE	'বিশ্ব সাহিত্য' পদটো অথআ ধাৰণাৰ সৃষ্টি আৰু বিস্তৃতিৰ লগতে বিশ্ব প্ৰেক্ষাপটত গুৰুত্ব আৰু খ্যাতি লাভ কৰা নিৰ্বাচিত সাহিত্যৰ অধ্যয়নৰ সুযোগ প্ৰদান এইখনি কাকতখনিৰ লক্ষ্য।

		DSE-4(A): SPECIAL AUTHORS	ছাত্র-ছাত্রীসকলক কোনো এজন বিশিষ্ট অসমীয়া লেখকৰ বিষয়ে বিস্তৃতভাৱে জনাৰ সুবিধা প্ৰদানৰ উদ্দেশ্যে তলত দিয়া লেখককেইজনৰ ভিতৰত যি কোনো এজনৰ জীৱন আৰু সাহিত্য-কৃতিৰ বিষয়ে অধ্যয়ন কৰাৰ সুবিধাৰ বাবে এই কাকতখন দিয়া হৈছে।
		DSE-4(B): PROJECT	গৱেষণা কৰ্মৰ সাধাৰণ ধাৰণাসহ প্ৰায়োগিক ক্ষেত্ৰত গৱেষণা কৰ্ম সম্পাদনৰ অভিজ্ঞতা প্ৰদানৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে। ইয়াৰ অন্তৰ্গতভাৱে ছাত্ৰ-ছাত্ৰীসকলক গৱেষণাৰ বাবে বিষয় নিৰ্বাচন, গৱেষণাৰ উদ্দেশ্য, পদ্ধতিৰে সৈতে গৱেষণা কৰ্ম সম্পাদন বিধিৰ পৰিচয় দি অসমীয়া ভাষা, সাহিত্য অথবা সংস্কৃতিৰ লগত জড়িত কোনো এটি বিষয় অধ্যয়নৰ বাবে বাচি লোৱাত শিক্ষকসকলে সহায় আগবঢ়াব। গৱেষণাৰ বিধি-নিয়ম অনুসৰণ কৰি অধ্যয়নৰ অন্তত প্ৰকল্পটিৰ প্ৰতিবেদন প্ৰস্তুত কৰিব লাগিব।
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE-1(A): PERFORMING ARTS**	লোক পৰিৱেশ্য কলাৰ ধাৰণা দি অসমৰ নিৰ্বাচিত কেইবিধমান লোক পৰিৱেশ্য কলাৰ আভাস দাঙি ধৰাই এই কাকতখনৰ উদ্দেশ্য।
		GE-1(B): CULTURE OF ASSAM AND CULTURAL TOURISM	অসমৰ সাংস্কৃতিক পৰিৱেশ তথা সম্পদৰ আধাৰত পৰ্যটন উদ্যোগ গঢ়াৰ সম্ভাৱনা সম্পৰ্কে ধাৰণা দিৱৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।
		GE-2(B): TEACHING OF ASSAMESE LITERATURE	অসমীয়া সাহিত্যৰ শিক্ষণ সম্পৰ্কে এক ধাৰণা লোৱা আৰু সাহিত্যৰ বিভিন্ন ক্ষেত্ৰসমূহৰ জ্ঞান ছাত্ৰ-ছাত্ৰীসকলক কেনেদৰে দিব লাগে এনে ক্ষেত্ৰত দক্ষতা অৰ্জন কৰাৰ বাবে এই কাকতখন যুগুত কৰা হৈছে।
		GE-3: TEACHING OF ASSAMESE LANGUAGE	অসমীয়া ভাষা ব্যৱহাৰ কৰোঁতে শুদ্ধকৈ কোৱা আৰু লিখাৰ ক্ষেত্ৰত দক্ষতা অৰ্জন কৰাৰ লগতে সম্যক জ্ঞান দিৱৰ বাবে এই কাকতখন যুগুত কৰা হৈছে।
		GE-4: SOCIOLOGY OF LITERATURE	সাহিত্যৰ অধ্যয়নৰ জগতত নতুনকৈ বিকশিত হোৱা সাহিত্যৰ সমাজতত্ত্ব নামৰ আন্তৰ্বিদ্যাৰতী বিষয়টোৰ লগত ছাত্ৰ-ছাত্ৰীসকলক পৰিচয় কৰাই সমাজতাত্ত্বিক দৃষ্টিভংগীৰে সাহিত্যৰ অধ্যয়নৰ প্ৰতি দৃষ্টি আকৰ্ষণ কৰোৱাৰ উদ্দেশ্যেৰে পাঠ্যক্ৰমত এই কাকতখনি সন্নিবিষ্ট কৰা হৈছে।
B.A. ASSAMESE NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**DSC-1A: LANGUAGE AND SCRIPT OF ASSAM**	অসমীয়া ভাষাৰ উদ্ভৱ আৰু বিকাশ, অসমীয়া ভাষা আৰু উপভাষাৰ সাধাৰণ পৰিচয় আৰু ভাষাতাত্ত্বিক বৈশিষ্ট্যৰ আভাস আৰু অসমৰ লিপিৰ সামগ্ৰিক পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।
		DSC-1B: ASSAMESE PROSE	এই কাকতখনে উদ্ভৱকালৰেপৰা বৰ্তমানলৈকে অসমীয়া গদ্য সাহিত্যৰ চমু পৰিচয়সহ প্ৰতিনিধিত্বমূলকভাৱে বিভিন্ন সময়ত ৰচিত অসমীয়া বিবিধ গদ্যৰ অধ্যয়নৰ সুযোগ প্ৰদান কৰিব।
		DSC-1C: ASSAMESE POETRY AND DRAMA	অসমীয়া কবিতা আৰু নাটক দুয়োবিধৰে প্ৰতিনিধিত্বমূলক পাঠ্যপুথিৰ অধ্যয়নেৰে সৈতে দুয়োবিধৰ সাহিত্যৰ চমু ইতিহাস উদাহৰণসহ অবগত কৰোৱাৰ উদ্দেশ্যে এই কাকতখন প্ৰস্তুত কৰা হৈছে।

		DSC-1D: LANGUAGE AND CULTURE OF ASSAM	অসমৰ ভাষাসমূহৰ সাধাৰণ পৰিচয় আৰু ভাষাতাত্ত্বিক বৈশিষ্ট্যৰ আভাস পাৰ পৰাকৈ লগতে সংস্কৃতিৰ ধাৰণা আৰু অসমীয়া সংস্কৃতিৰ বৈশিষ্ট্যৰ বিষয়ে ছাত্ৰ-ছাত্ৰীসকলে সম্যক জ্ঞান পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE-1A: ASSAMESE GRAMMAR, LEXICON AND IDIOMATIC USAGES**	অসমীয়া ভাষাৰ শুদ্ধ উচ্চাৰণ, শুদ্ধ আখৰ জোটনি, অসমীয়া জতুৱা ঠাঁচ আৰু খণ্ডবাক্যৰ প্ৰয়োগৰ লগতে উপযুক্ত পৰিভাষাৰ প্ৰয়োগ, অসমীয়া ব্যাকৰণৰ বিবিধ দিশ আৰু অসমীয়া অভিধানৰ সাধাৰণ পৰিচয় পাব পৰাকৈ এই কাকতখন যুগুত কৰা হৈছে।
		DSE-1B: INTRODUCTION TO WORLD LITERATURE	বহু ভাষাৰে প্ৰকাশ লাভ কৰা ভাৰতীয় সাহিত্যৰ একক ৰূপত পৰিচয় প্ৰদানৰ লগতে নিৰ্বাচিত ৰচনাৰ অধ্যয়নৰ যোগেদি তাৰ কিছু আভাস দিবৰ উদ্দেশ্যেৰে এই কাকতখনি পাঠ্যক্ৰমত সন্নিবিষ্ট কৰা হৈছে।
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE-1(A): TEACHING OF ASSAMESE LITERATURE**	অসমীয়া সাহিত্যৰ শিক্ষণ সম্পৰ্কে এক ধাৰণা লোৱা আৰু সাহিত্যৰ বিভিন্ন ক্ষেত্ৰসমূহৰ জ্ঞান ছাত্ৰ-ছাত্ৰীসকলক কেনেদৰে দিব লাগে এনে ক্ষেত্ৰত দক্ষতা অৰ্জন কৰাৰ বাবে এই কাকতখন যুগুত কৰা হৈছে।
		GE-1(B): TEACHING OF ASSAMESE LANGUAGE	অসমীয়া ভাষা ব্যৱহাৰ কৰোঁতে শুদ্ধকৈ কোৱা আৰু লিখাৰ ক্ষেত্ৰত দক্ষতা অৰ্জন কৰাৰ লগতে সম্যক জ্ঞান দিবৰ বাবে এই কাকতখন যুগুত কৰা হৈছে।
		GE-2(A): PERFORMING ARTS	লোক পৰিবেশ্য কলাৰ ধাৰণা দি অসমৰ নিৰ্বাচিত কেইবিধমান লোক পৰিবেশ্য কলাৰ আভাস দাঙি ধৰাই এই কাকতখনৰ উদ্দেশ্য।
		GE-2(B): CULTURE OF ASSAM AND CULTURAL TOURISM	অসমৰ সাংস্কৃতিক পৰিবেশ তথা সম্পদৰ আধাৰত পৰ্যটন উদ্যোগ গঢ়াৰ সম্ভাৱনা সম্পৰ্কে ধাৰণা দিবৰ বাবে এই কাকতখন প্ৰস্তুত কৰা হৈছে।
B.A. BENGALI NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**DSC-1(A): INTRODUCTION TO BENGALI LANGUAGE AND LITERATURE**	From this course students will learn about origin and evolution of Bengali language, source and evolution of Bengali words and phonetics, introduction to ancient Bengali literature.
		DSC-1(B): BENGALI POETRY AND CULTURE	From this course students will learn about ancient Bangla poetry, culture, folk music, folklores, etc.
		DSC-2(A): INTRODUCTION TO BENGALI LANGUAGE AND LITERATURE	From this course students will learn about classification of alphabets, semantic change and its types, Bengali ornaments and its types.
		DSC-2(B): BENGALI POETRY AND CULTURE	From this course students will learn about Vaishnav Padawali, Mongolkabya, Moimonsinha Gitika, Bengali folk songs.
		DSC-3(A): POETRY OF TWENTIETH CENTURY	From this course students will learn about poetry of selected poets like Chitra by Rabindranath Tagore, Sanchita by Nazrul Islam, selected poems of Jasimuddin, selected poems of Sukanta Bhattacharjee.
		DSC-3(B): DIVISIONS OF LITERATURE	From this course students will learn about different divisions of Bengali Literature – Children literature, travelogues and folk literature.

		DSC-4(A): BENGALI PROSE DRAMA AND ARTICLES (NINETEENTH CENTURY)	From this course students will learn about the Bengali short stories, novel, drama and articles from nineteenth century periods.
		DSC-4(B): BENGALI PROSE DRAMA AND ARTICLES (TWENTIETH CENTURY)	From this course students will learn about the Bengali short stories, novel, drama and articles from twentieth century periods.
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE-1(A): PRACTICE OF MODERN LANGUAGE**	From this course students will learn grammar of the modern Bengali language and synthesis of sentences.
		DSE-1(B): BENGALI SHORT STORIES AND CHILD LITERATURE	From this course students will learn about the Bengali short stories and child literature of selected writers.
		DSE-2(A): PROJECT	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for literature based Project. 3. solve problems faced in literature through project. 4. prepare a project report.
		DSE-2(B): MODERN BENGALI POETRY, PROSE AND INDIAN TRANSLATED LITERATURE	From this course students will learn about Bengali poetry from twentieth century, Bengali article literature with special reference to Bankimchandra Chotopadhya and Indian translated literature.
B.A. COMPUTER APPLICATION NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**DSC-1A: COMPUTER FUNDAMENTALS**	From this course students will learn Introduction to computer system, uses, types, Data Representation,types of software, Operating system as user interface, utility programs, computer devices, different types of memory, computer Organisation and Architecture, overview of Emerging Technologies like Bluetooth, cloud computing, big data, data mining, mobile computing and embedded systems, use of Computers in Education and Research: Data analysis, Heterogeneous storage, e-Library, Google Scholar, Domain specific packages such as SPSS, Mathematica etc.
		DSC -1A: COMPUTER FUNDAMENTALS LAB	
		DSC-2A: DATABASE MANAGEMENT SYSTEM	From this course students will learn about database, relational data model, DBMS architecture, data independence, DBA, database users, end users, front end tools; E-R Modeling: Entity types, entity set, attribute and key, relationships, relation types, E- R diagrams, database design using ER diagrams Relational Data Model: Relational model concepts, relational constraints, primary and foreign key, normalization: 1NF, 2NF, 3NF Structured Query Language: SQL queries, create a database table, create relationships between database tables, modify and manage tables, queries, forms, reports, modify, filter and
		DSC-2A: DATABASE MANAGEMENT SYSTEM LAB	

			view data.
		DSC-3A: COMPUTER NETWORKS AND INTERNET TECHNOLOGIES	From this course students will learn about Computer Networking, Network Models: Client/ server network and Peer-to-peer network, OSI, TCP/IP, layers and functionalities; Transmission Media: Introduction, Guided Media: Twisted pair, Coaxial cable, Optical fiber. Unguided media: Microwave, Radio frequency propagation, Satellite; LAN Topologies, Network Devices, Internet Applications, Introduction to Web Design and JavaScript Fundamentals.
		DSC-3A: COMPUTER NETWORKS AND INTERNET TECHNOLOGIES LAB	
		DSC-4A: MULTIMEDIA SYSTEMS AND APPLICATIONS	From this course students will learn about multimedia, Fonts & Faces, Using Text in Multimedia, Font Editing & Design Tools, Hypermedia & Hypertext, bitmaps, vector drawing, 3D drawing & rendering, natural light & colors, computerized colors, color palettes, image file formats, Sound files, how video works, analog video, digital video, video file formats, video shooting and editing, animation: Making Multimedia, Multimedia Hardware - Macintosh and Windows production Platforms, Hardware peripherals - Connections, Memory and storage devices, Multimedia software and Authoring tools.
		DSC-4A: MULTIMEDIA SYSTEMS AND APPLICATIONS LAB	
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE-1A: PROGRAMMING WITH PYTHON**	From this course students will learn about planning the Computer Program, Techniques of Problem Solving, Overview of Programming : Structure of a Python Program, Elements of Python, Creating Python Programs; Iteration and Recursion, Strings and Lists, Object Oriented Programming, Data Structures: Arrays, list, set, stacks and queues; Searching and Sorting: Linear and Binary Search, Bubble, Selection and Insertion sorting.
		DSE-1A: PROGRAMMING WITH PYTHON LAB	
		DSE-1B: VISUAL PROGRAMMING	From this course students will learn about GUI Environment, Controls, Operations, Decision Making, Modular programming, Forms Handling, Iteration Handling, Arrays and Grouped Data Control, Database Connectivity.
		DSE-1B: VISUAL PROGRAMMING LAB	
		DSE-2A: INFORMATION SECURITY AND CYBER LAWS	From this course students will learn about computer network as a threat, hardware vulnerability, software vulnerability, importance of data security, Digital Crime, Information Gathering Techniques, Risk Analysis and Threat, Introduction to Cryptography and Applications, Safety Tools and Issues , Cyber laws to be covered as per IT 2008.
		DSE-2A: INFORMATION SECURITY AND CYBER LAWS LAB	
		DSE-2B: SOFTWARE ENGINEERING	From this course students will learn about introduction to Software Engineering, Software Process, Project Management Process- Inspection Process- Configuration, Management Process, Need for SRS-Requirement process, Problem Analysis using UML (Unified
		DSE-2B: SOFTWARE ENGINEERING LAB	

			Modelling Language) and Data dictionary, Characteristics of SRS, Components of an SRS, Psychology of testing -Error, Fault and Failure-Black box testing-Boundary value analysis, Testing Process-Levels of Testing.
		DSE-2C: DISSERTATION / PROJECT WORK	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for computer application based Project. 3. solve problems faced in computer application field through project. 4. prepare a project report.
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE-1 : IT FUNDAMENTALS**	From this course students will learn about Introduction to logical organization of computer, input and output devices (with connections and practical demo), keyboard, mouse, joystick, scanner, OCR, OMR, monitor, printer, plotter, primary memory, secondary memory, auxiliary memory, User Interface, Database, computer Networking, Internet Applications, Use of Computers in Education and Research, Data analysis, Heterogeneous storage, e-Library, Google Scholar, Domain specific packages such as SPSS, Mathematica etc.
		GE-1 : IT FUNDAMENTALS PRACTICAL	
		GE-2 : MULTIMEDIA AND WEB DESIGN	From this course students will learn about Multimedia, Multimedia Input/Output Devices, Multimedia Storage Devices, Multimedia Tools, Web Designing: Concept of website, website as a communication resource. Internet, intranet and extranet, basic concepts related to website designing, HTML: Introduction to hypertext markup language (html) document type definition, creating web pages, graphical elements, lists, hyperlinks, tables, web forms, inserting images, frames, use of CSS
		GE-2 : MULTIMEDIA AND WEB DESIGN PRACTICAL	
B.A. ECONOMICS HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C101: 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.
		C102: MATHEMATICAL METHODS FOR ECONOMICS–I	This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at 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.
		C201: INTRODUCTORY MACROECONOMICS	This course aims to introduce the students to the basic concepts of Macroeconomics. This course discusses the preliminary concepts

			associated with the determination and measurement of aggregate macroeconomic variables like savings, investment, GDP, money, inflation and the balance of payments.
		C202 :MATHEMATICAL METHODS FOR ECONOMICS - II	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, 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.
		C301: ESSENTIALS OF MICROECONOMICS	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.
		C302: ESSENTIALS OF MACROECONOMICS	This course introduces the students to formal modeling of a macro-economy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces the students to various theoretical issues related to an open economy.
		C303: 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.
		C401: ADVANCED MICROECONOMICS	This course is a sequel to Essentials of Microeconomics. 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
		C402 :ADVANCED MACROECONOMICS	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.
		C403 :INTRODUCTORY ECONOMETRICS	This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers statistical concepts of hypothesis testing, estimation and diagnostic checking of simple and multiple regression models. The course also covers the consequences of and tests for misspecification of regression models.
		C501: INDIAN ECONOMY- I	Using appropriate analytical frameworks, this course reviews major trends in economic indicators in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Emphasis needs to be given in capturing the emerging issues.
		C502 :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.
		C601: INDIAN ECONOMY- II	This course examines sector-specific polices and their impact in shaping trends in key economic indicators in India. Emphasis needs to be given in capturing the emerging issues.
		C602: 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.
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE	**DSE501: 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

	COURSES)		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.
		DSE502 : APPLIED ECONOMETRICS	The aim of this course is to provide a foundation in applied econometric analysis and develop skills required for empirical research in economics. Topics include specification and selection of regression models, dynamic econometric models, advanced methods in regression analysis and panel data models. Since the emphasis is on application of methods, this course requires understanding of econometric software and computing skills.
		DSE503: ECONOMIC HISTORY OF INDIA (1857-1947)	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 in 1947.
		DSE504 : GAME THEORY	Game theory is an integral part of modern economic analysis. Game theory introduces the students to elementary game theory under complete information. This course introduces the basic concepts of game theory in a way that allows students to use them in solving simple problems. The course will deal with the solution concepts for normal form and extensive form games along with a variety of economic applications.
		DSE505 : 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.
		DSE506 : PUBLIC ECONOMICS	Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject

			encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.
		DSE601 : FINANCIAL ECONOMICS	This course introduces students to the economics of finance. Some of the basic models used to benchmark valuation of assets and derivatives are given to study in detail. The course ends with a brief introduction to corporate finance
		DSE602 : ENVIRONMENTAL ECONOMICS	This course aims to focus on economic causes of environmental problems; in particular, how economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies. It also aims to address Economic implications of environmental policy 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.
		DSE603 : 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, 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.
		DSE604 : THE ECONOMY OF NORTH-EAST INDIA	The objective of this course is to acquaint the learners with the characteristics as well as with the current issues of the economy of North-East India. The learners will also be able to know the performance and problems of the primary, secondary and tertiary sectors of North-East India.
		DSE605 : HISTORY OF ECONOMIC THOUGHT	The objective of this course is to acquaint the learners with the historical developments in the economic thoughts propounded by different schools.
		DSE 606: PROJECT REPORT	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for Economics Project. 3. solve problems faced in economy field through project. 4. prepare a project report.

	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE1 : 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.
		GE2 : 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 of payments.
		GE3.1 : INDIAN ECONOMY I	Using appropriate analytical frameworks, this course reviews major trends in economic indicators in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points. Emphasis needs to be given in capturing the emerging issues.
		GE3.2 : 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.
		GE3.3 : ENVIRONMENTAL ECONOMICS	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 familiarity with basic concepts of economics. Since several environmental problems are caused by economic activity (for instance, carbon emissions, overharvesting of renewable resources and air and water pollution as a by-product of industrial activity), this course examines different approaches to adjusting behaviour through economic institutions such as markets and incentives as well as through regulation, etc. It also addresses the economic implications of environmental changes. Conversely, the impact of economic growth on the environment is also addressed under the rubric of sustainable development. 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.
		GE4.1 : INDIAN ECONOMY-II	This course examines sector-specific polices and their impact in

			shaping trends in key economic indicators in India. Emphasis needs to be given in capturing the emerging issues.
		GE4.2 : ECONOMIC HISTORY OF INDIA (1857-1947)	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 in 1947.
		GE4.3 : 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.
B.A. ECONOMICS NON-HONOURS	**DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)**	**DSC101 : PRINCIPLES OF MICROECONOMICS - I**	This course intends to expose the students to the basic principles in Microeconomic theory and their applications.
		DSC201: PRINCIPLES OF MICROECONOMICS - II	This course intends to expose the students to the basic principles in Microeconomic theory and their applications
		DSC301: 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.
		DSC401: PRINCIPLES OF MACROECONOMICS-II	This is a sequel to Principles of Macroeconomics–I. It analyses various theories of determination of National Income in greater detail. It also introduces students to concept of inflation, its relationship with unemployment and some basic concepts in an open economy.
	DISCIPLINE SPECIFIC ELECTIVE COURSES (ELECTIVE COURSES)	**DSE1: 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.
		DSE2: 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.
		DSE3: ENVIRONMENTAL ECONOMICS	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 familiarity with basic concepts of economics. Since several environmental problems are caused by economic activity (for instance, carbon emissions, overharvesting of renewable resources and air and water pollution as a by-product of industrial activity), this course examines different approaches to adjusting behaviour through economic institutions such as markets and incentives as well as through regulation, etc. It also addresses the economic implications of environmental. Conversely, the impact of economic growth on the environment is also addressed under the rubric of sustainable development. 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.
		DSE4: 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.
		DSE5: ECONOMIC HISTORY OF INDIA (1857-1947)	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 in 1947.
		DSE6: 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.
		DSE7: PROJECT REPORT	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for

			Economics Project. 3. solve problems faced in economy field through project. 4. prepare a project report.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE1: 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.
		GE2: 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 of payments.
B.A. EDUCATION HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C101: PHILOSOPHICAL FOUNDATIONS OF EDUCATION**	On completion of the course, the students will be able to: (i) Describe the modern concept, aims, functions and role of education, (ii) Describe the role of Philosophy in Education, (iii) the basic tenants of the given Indian and Western Philosophies and their influence in Education and (iv) appraise the contribution of the given philosophers in the domain of education.
		C102: SOCIOLOGICAL FOUNDATIONS OF EDUCATION	After completion of this course, the students will be able to: 1. Explain the concept, approaches and theories of educational sociology. 2. Illustrate Social Aspects, Social Processes and role of Education. 3. Explain the role of Education in Social Change and Development. 4. Describe various Social Groups and their Education 5. Explain different Political Ideologies and their bearings on Education
		C201: PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	On completion of the course, the students will be able to: 1. Explain the concept, nature, scope and uses of psychology in Education. 2. Explain the influence of growth and development in education. 3. Describe the meaning, concept, variables, types and theories of learning. 4. Discuss the concept and theories of intelligence and creativity. 5. Explain the meaning, concept, factors and theories of personality. 6. Describe the concepts of mental health and mental hygiene, measures of mental health in school.
		C202: EDUCATIONAL ADMINISTRATION AND MANAGEMENT	On completion of the course, learners will be able to: 1. Define the concept of Educational Management. 2. Describe the types of management and modern trends of Educational management. 3. Define the concept of educational leadership and 4. explain the principles of educational leadership

		C301: GREAT EDUCATORS AND EDUCATIONAL THOUGHTS	After completion of the Course, the students will be able to: (i) Describe the contribution of the given philosophers in the domain of education and (ii) explain the relevance of the educational thought of the given philosophers
		C302 : MEASUREMENT AND EVALUATION IN EDUCATION	On completion of the course, the students will be able to: 1. Explain the meaning, nature, scope, need and types of measurement and evaluation in education. 2. Describe the meaning of psychological tests, their characteristics and process of construction. 3. Describe some specific tools to measure achievement, intelligence, personality and aptitude. 4. Describe the meaning and nature of different statistical measures and 5. use statistics in measurement and evaluation in education.
		C303: EXPERIMENTAL PSYCHOLOGY AND LABORATORY PRACTICAL	On completion of the course, the students will be able to : (i) Explain the concept, scope and need of Experimental psychology. (ii) Conduct and report of psychological experiments. (iii) Describe the meaning and nature of memory, Immediate memory, memory span and its related practical. (iv) Explain the concept of attention, span of attention and its related practical. (v) Explain the concept, theories and methods of learning and its related practical. (vi) State the concept of personality, different techniques of personality testing and its related practical and (vii) State the concept of intelligence, historical background of intelligence testing and its related practical.
		C401: EDUCATION IN PRE-INDEPENDENT INDIA	On completion of the course, the students will be able to: (i) explain the concept of education in the context of Indian heritage, (ii) describe the education in ancient India, particularly Vedic Education and Buddhist Education. (iii) Critically examine the education system in Medieval India and (iv) evaluate the education system during British period with special emphasis on the commissions and committees.
		C402: TECHNIQUES OF TEACHING	On completion of the course, the students will be able to: 1. explain the meaning and nature of teaching. 2. Describe the principles of teaching and learning. 3. Describe the role of teacher at different phases of teaching. 4. Explain the importance of planning lessons in teaching-learning process. 5. Describe the concept of teaching skills and the stages of microteaching cycle. 6. State the objectives of teaching different subjects in Elementary and Secondary levels and 7. Describe different methods and approaches of teaching.
		C402: TEACHING PRACTICE	On completion of the course, the students will be able to: (i)

		PRACTICAL	Demonstrate a few teaching skills in classroom, (ii) Integrate the teaching skills in real classroom situations and (iii) Prepare lesson plans for Microteaching and Practice teaching.
		C403: EDUCATIONAL TECHNOLOGY	Expected Learning Outcome, the students will be able to: 1. Describe the concept, nature and components of Educational Technology 2. Distinguish between Educational technology and Instructional Technology 3. apply ICT in teaching learning 4. Describe the concept, components and characteristics of communication 5. Demonstrate the skills of effective communication and 6. Apply Models of teaching, personalized system of instruction, programmed learning in teaching learning.
		C501: EDUCATION IN POST-INDEPENDENT INDIA	On completion of the course, the students will be able to: (i) describe the educational scenario at the time of Independence, (ii) explain the roles of various Commissions and Committees in the development of education in post independent India and (iii) describe the recent educational developments in India
		C502: EDUCATION IN WORLD PERSPECTIVE	On completion of the course, the students will be able to : 1. explain the meaning and definition, nature, scope and purpose of comparative education. 2. describe the factors influencing in national system of education. 3. describe the methods of comparative education. 4. explain the organization, administration, objectives and examination systems of the countries. 5. describe the vocational and teacher education of different countries, specially UK, USA, India and Japan. 6. explain the open education in world perspective
		C601: EMERGING TRENDS IN INDIAN EDUCATION	On completion of the course, the students will be able to 1. explain the need of constitutional provisions for education, and the role of constitution in equalizing educational opportunities in the diverse Indian Society. 2. identify the challenges of Indian education at different levels and suggest measures to overcome these. 3. define the new perspectives of education such as Environmental education, Inclusive education, Gender education, Inclusive education, Adult education, Human right education, Value education, population education etc. 4. critically examine and evaluate the initiatives taken by Government of India through various plans and policies to counter the challenges of Indian education. 5. explain the political influences on the national education system. 6. analyze the role of international agencies in development of education.
		C602: CHILD & ADOLESCENT	On completion of the Course, students will be able to: 1. explain the

		PSYCHOLOGY	significance of a study of childhood and adolescence today. 2. describe the developmental changes of childhood and adolescence. 3. summarize the effect of family dynamics on child and adolescent development 4. explain the significance of the role of society in monitoring and guiding young children in their proper development.
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE 501: GUIDANCE AND COUNSELLING**	On completion of the course, the students will be able to: 1. Describe meaning, nature, purpose and scope of guidance and counseling. 2. Describe the characteristics and functions of guidance and counseling. 3. State the basic principles of guidance and counseling. 4. Explain the types and areas of guidance and counseling. 5. Use various tools and techniques of guidance in appropriate context. 6. explain the qualities and role of a counselor.
		DSE 502: ALUE EDUCATION	On completion of the course, the students will be able to: 1. explain the concepts of values and value education. 2. Describe the importance of value education in the 21st century. 3. Describe the need of values in creating a better world and 4. Explain the promotion of value through education.
		DSE 503: INCLUSIVE EDUCATION	On completion of the course, the students will be able to: (i) Explain the concept of special education, integrated education, and inclusive education, (ii) Discuss the global and national commitments towards the education of children with diverse needs, (iii) Appreciate the need for promoting inclusive practice and the roles and responsibilities of all concerned personnel, (iv) Analyse critically the recommendations of various commissions and committees towards teacher preparation for inclusive education, (v) Describe the nature of difficulties encountered by children and in preparing conducive teaching learning environment in inclusive schools, (iv) identify existing support services for promoting inclusive practice, (vii) describe the policy perspectives related to education of socially disadvantaged section in India and (viii) describe the schemes and programmes for education of socially disadvantaged groups.
		DSE 504: MENTAL HEALTH ISSUES	On completion of the course, the students will be able to: 1. explain the need and importance of understanding the concepts of mental health and hygiene in the emerging society. 2. empathize with people having psychological and maladjustment problems. 3. describe the role of different agencies of society and their impacts on the development of an individual's personality. 4. describe the various components of positive psychology and its significance in the teaching learning

			processes. 5. integrate yoga in their day-to-day lives for holistic health.
		DSE 601: HUMAN RIGHTS EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning, definition, nature, scope, theories and constitutional perspectives of human rights. 2. describe the concept, objectives, principles, need and curriculum, of human rights education. 3. describe methods and activities of teaching human right education. 4. describe the factors promoting human right education. 5. describe the basics of human rights education i.e. societal, political, regionalism and limitations of its 6. explain the role of different agencies of human rights education
		DSE 602: ECONOMICS OF EDUCATION	On completion of the course, students will be able to: 1. describe the meaning, scope and importance of Economics of Education 2. define and illustrate the concepts used in economics of Education. 3. examine the historical development of Economics of Education. 4. explain the concept of Education as a good, demand and supply of education, Utility of Education etc. 5. explain the concept of investment in education, return on investment in education, education as production process etc. 6. explain the concepts of different types of Educational cost. 7. examine the concepts of human capital formation, Education financing, Educational Planning etc.
		DSE 603: GENDER AND EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning and nature of gender and its related terms. 2. describe the gender biases and gender inequality in family, school and society. 3. describe the gender issues related to school education. 4. analyse the laws and policies related to gender equality.
		DSE 604: PROJECT REPORT	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for Educational Project. 3. solve problems faced in educational field through project. 4. prepare a project report.
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE 101: GUIDANCE AND COUNSELLING**	On completion of the course, the students will be able to: 1. Describe meaning, nature, purpose and scope of guidance and counseling. 2. Describe the characteristics and functions of guidance and counseling. 3. State the basic principles of guidance and counseling. 4. Explain the types and areas of guidance and counseling. 5. Use various tools and techniques of guidance in appropriate context. 6. Explain the qualities and role of a counselor.
		GE 102: VALUE EDUCATION	On completion of the course, the students will be able to: 1. explain

			the concepts of values and value education. 2. Describe the importance of value education in the 21st century. 3. Describe the need of values in creating a better world and 4. Explain the promotion of value through education.
		GE 201: HUMAN RIGHTS EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning, definition, nature, scope, theories and constitutional perspectives of human rights. 2. Describe the concept, objectives, principles, need and curriculum, of human rights education. 3. Describe methods and activities of teaching human right education. 4. Describe the factors promoting human right education. 5. Describe the basics of human rights education i.e. societal, political, regionalism and limitations of its 6. explain the role of different agencies of human rights education
		GE 202: GENDER AND EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning and nature of gender and its related terms. 2. Describe the gender biases and gender inequality in family, school and society. 3. Describe the gender issues related to school education. 4. Analyse the laws and policies related to gender equality.
		GE 301: INCLUSIVE EDUCATION	On completion of the course, the students will be able to: (i) Explain the concept of special education, integrated education, and inclusive education, (ii) Discuss the global and national commitments towards the education of children with diverse needs, (iii) Appreciate the need for promoting inclusive practice and the roles and responsibilities of all concerned personnel, (iv) Analyse critically the recommendations of various commissions and committees towards teacher preparation for inclusive education, (v) Describe the nature of difficulties encountered by children and in preparing conducive teaching learning environment in inclusive schools, (iv) identify existing support services for promoting inclusive practice, (vii) describe the policy perspectives related to education of socially disadvantaged section in India and (viii) describe the schemes and programmes for education of socially disadvantaged groups.
		GE 302: MENTAL HEALTH ISSUES	On completion of the course, the students will be able to: 1. explain the need and importance of understanding the concepts of mental health and hygiene in the emerging society. 2. empathize with people having psychological and maladjustment problems. 3. describe the role of different agencies of society and their impacts on the development of an individual's personality. 4. describe the various components of

			positive psychology and its significance in the teaching learning processes. 5. integrate yoga in their day-to-day lives for holistic health.
		GE 401: ECONOMICS OF EDUCATION	On completion of the course, students will be able to: 1. describe the meaning, scope and importance of Economics of Education 2. Define and illustrate the concepts used in economics of Education. 3. Examine the historical development of Economics of Education. 4. Explain the concept of Education as a good, demand and supply of education, Utility of Education etc. 5. Explain the concept of investment in education, return on investment in education, education as production process etc. 6. Explain the concepts of different types of Educational cost. 7. examine the concepts of human capital formation, Education financing, Educational Planning etc.
B.A. EDUCATION NON-HONOURS	**DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)**	**DSC 101: PHILOSOPHICAL FOUNDATIONS OF EDUCATION**	On completion of the course, the students will be able to:(i) Describe the modern concept, aims, functions and role of education, (ii) Describe the role of Philosophy in Education, (iii) Explain the basic tenants of the given Indian and Western Philosophies and their influence in Education and (iv) Appraise the contribution of the given philosophers in the domain of education.
		DSC 201: PSYCHOLOGICAL FOUNDATIONS OF EDUCATION	On completion of the course, the students will be able to: 1. Explain the concept, nature, scope and uses of psychology in Education. 2. Explain the influence of growth and development in education. 3. Describe the meaning, concept, variables, types and theories of learning. 4. Discuss the concept and theories of intelligence and creativity. 5. Explain the meaning, concept, factors and theories of personality. 6. Describe the concepts of mental health and mental hygiene, measures of mental health in school.
		DSC 301: SOCIOLOGICAL FOUNDATIONS OF EDUCATION	On completion of the course, the students will be able to: 1. Explain the concept, approaches and theories of educational sociology. 2. Illustrate Social Aspects, Social Processes and role of Education. 3. Explain the role of Education in Social Change and Development. 4. Describe various Social Groups and their Education Page11 5. Explain different Political Ideologies and their bearings on Education
		DSC 401: EMERGING TRENDS IN INDIAN EDUCATION	On completion of the course, the students will be able to 1. explain the need of constitutional provisions for education, and the role of constitution in equalizing educational opportunities in the diverse Indian Society. Page14 2. identify the challenges of Indian education at different levels and suggest measures to overcome these. 3. define the

			new perspectives of education such as Environmental education, Inclusive education, Gender education, Inclusive education, Adult education, Human right education, Value education, population education etc. 4. critically examine and evaluate the initiatives taken by Government of India through various plans and policies to counter the challenges of Indian education. 5. explain the political influences on the national education system. 6. analyze the role of international agencies in development of education
	DISCIPILNE SPECIFIC ELETRIC COURSES (ELETRIC COURSES)	**DSE 501: GREAT EDUCATORS AND EDUCATIONAL THOUGHT**	After completion of the Course, the students will be able to- 1. describe the contribution of the given philosophers in the domain of education 2. explain the relevance of the educational thought of the given philosophers
		DSE 502: MEASUREMENT AND EVALUATION IN EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning, nature, scope, need and types of measurement and evaluation in education. 2. describe the meaning of psychological tests, their characteristics and process of construction. 3. describe some specific tools to measure achievement, intelligence, personality and aptitude. 4. describe the meaning and nature of different statistical measures. 5. use statistics in measurement and evaluation in education
		DSE 503: EDUCATION IN PRE-INDEPENDENT INDIA	On completion of the course, the students will be able to: 1. explain the concept of education in the context of Indian heritage. 2. Describe the education in ancient India, particularly Vedic Education and Buddhist Education. 3. critically examine the education system in Medieval India. 4. evaluate the education system during British period with special emphasis on the commissions and committees.
		DSE 504: EDUCATION IN WORLD PERSPECTIVE	On completion of the course, the students will be able to : 1. explain the meaning and definition, nature, scope and purpose of comparative education. 2. describe the factors influencing in national system of education. 3. describe the methods of comparative education. 4. explain the organization, administration, objectives and examination systems of the countries. 5. describe the vocational and teacher education of different countries, specially UK, USA, India and Japan. 6. explain the open education in world perspective.
		DSE 505: GUIDANCE AND COUNSELLING	On completion of the course, the students will be able to : 1. describe meaning, nature, purpose and scope of guidance and counselling. 2. describe the characteristics and functions of guidance and counselling. 3. state the basic principles of guidance and counselling. 4. explain the

			types and areas of guidance and counselling. 5. use various tools and techniques of guidance in appropriate context. 6. explain the qualities and role of a counsellor.
		DSE 506: VALUE EDUCATION	On completion of the course, the students will be able to : 1. explain the concepts of values and value education. 2. describe the importance of value education in the 21st century. 3. describe the need of values in creating a better world. 4. explain the promotion of value through education.
		DSE 507: INCLUSIVE EDUCATION	On completion of the course, the students will be able to: 1. explain the concept of special education, integrated education, and inclusive education. 2. discuss the global and national commitments towards the education of children with diverse needs. 3. appreciate the need for promoting inclusive practice and the roles and responsibilities of all concerned personnel. 4. analyse critically the recommendations of various commissions and committees towards teacher preparation for inclusive education. 5. describe the nature of difficulties encountered by children and in preparing conducive teaching learning environment in inclusive schools. 6. identify existing support services for promoting inclusive practice. 7. describe the policy perspectives related to education of socially disadvantaged section in India. 8. describe the schemes and programmes for education of socially disadvantaged groups.
		DSE 508: MENTAL HEALTH ISSUES	On completion of the course, the students will be able to : 1. explain the need and importance of understanding the concepts of mental health and hygiene in the emerging society. 2. Empathize with people having psychological and maladjustment problems. 3. describe the role of different agencies of society and their impacts on the development of an individual's personality. 4. describe the various components of positive psychology and its significance in the teaching learning processes. 5. integrate yoga in their day-to-day lives for holistic health.
		DSE 601: EDUCATIONAL ADMINISTRATION AND MANAGEMENT	On completion of the course, learners will be able to1. define the concept of Educational Management. 2. describe the types of management and modern trends of Educational management. 3. define the concept of educational leadership 4. explain the principles of educational leadership 5. describe the styles of leadership and its implication in educational leadership. 6. define the concept of educational planning and its importance 7. analyze the role and importance of educational supervision 8. Suggest measures to ensure

			quality in educational management.
		DSE 602: EDUCATION IN POST-INDEPENDENT INDIA	On completion of the course, the students will be able to: 1. describe the educational scenario at the time of Independence 2. explain the roles of various Commissions and Committees in the development of education in post independent India. 3. describe the recent educational developments in India
		DSE 603: EDUCATIONAL TECHNOLOGY	On completion of the course, the students will be able to: 1. describe the concept, nature and components of Educational Technology 2. distinguish between Educational technology and Instructional Technology 3. apply ICT in teaching learning 4. describe the concept, components and characteristics of communication 5. demonstrate the skills of effective communication 6. apply Models of teaching, personalized system of instruction, programmed learning in teaching learning.
		DSE 604: CHILD & ADOLESCENT PSYCHOLOGY	On completion of the Course, students will be able to: 1. explain the significance of a study of childhood and adolescence today. 2. describe the developmental changes of childhood and adolescence. 3. summarize the effect of family dynamics on child and adolescent development 4. explain the significance of the role of society in monitoring and guiding young children in their proper development.
		DSE 605: HUMAN RIGHTS EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning, definition, nature, scope, theories and constitutional perspectives of human rights. 2. describe the concept, objectives, principles, need and curriculum, of human rights education. 3. describe methods and activities of teaching human right education. 4. describe the factors promoting human right education. 5. describe the basics of human rights education i.e. societal, political, regionalism and limitations of its 6. explain the role of different agencies of human rights education.
		DSE 606: ECONOMICS OF EDUCATION	On completion of the course, learners will be able to- 1. describe the meaning, scope and importance of Economics of Education. 2. define and illustrate the concepts used in economics of Education. 3. examine the historical development of Economics of Education. 4. explain the concept of Education as a good, demand and supply of education, Utility of Education etc. 5. explain the concept of investment in education, return on investment in education, education as production process etc. 6. explain the concepts of different types of Educational cost. 7. examine the concepts of human capital formation,

			Education financing, Educational Planning etc.
		DSE 607: GENDER AND EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning and nature of gender and its related terms. 2. describe the gender biases and gender inequality in family, school and society. 3. describe the gender issues related to school education. 4. analyse the laws and policies related to gender equality.
		DSE 608: PROJECT REPORT	After completion of this course, the student will be able to: 1. explain the process of conducting a Project. 2. identify the problems for Educational Project. 3. solve problems faced in educational field through project. 4. prepare a project report.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE 501: EDUCATION IN PRE-INDEPENDENT INDIA**	On completion of the course, the students will be able to: 1. explain the concept of education in the context of Indian heritage. 2. Describe the education in ancient India, particularly Vedic Education and Buddhist Education. 3. critically examine the education system in Medieval India. 4. evaluate the education system during British period with special emphasis on the commissions and committees.
		GE 502: GUIDANCE AND COUNSELLING	On completion of the course, the students will be able to : 1. describe meaning, nature, purpose and scope of guidance and counselling. 2. describe the characteristics and functions of guidance and counselling. 3. state the basic principles of guidance and counselling. 4. explain the types and areas of guidance and counselling. 5. use various tools and techniques of guidance in appropriate context. 6. explain the qualities and role of a counsellor.
		GE 503: VALUE EDUCATION	On completion of the course, the students will be able to : 1. explain the concepts of values and value education. 2. describe the importance of value education in the 21st century. 3. describe the need of values in creating a better world. 4. explain the promotion of value through education.
		GE 601: EDUCATION IN POST-INDEPENDENT INDIA	On completion of the course, the students will be able to: 1. describe the educational scenario at the time of Independence 2. explain the roles of various Commissions and Committees in the development of education in post independent India. 3. describe the recent educational developments in India
		GE 602: HUMAN RIGHTS EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning, definition, nature, scope, theories and constitutional perspectives of human rights. 2. describe the concept, objectives, principles, need and curriculum, of human rights education. 3.

			describe methods and activities of teaching human right education. 4. describe the factors promoting human right education. 5. describe the basics of human rights education i.e. societal, political, regionalism and limitations of its 6. explain the role of different agencies of human rights education.
		GE 603: GENDER AND EDUCATION	On completion of the course, the students will be able to: 1. explain the meaning and nature of gender and its related terms. 2. Describe the gender biases and gender inequality in family, school and society. 3. describe the gender issues related to school education. 4. analyse the laws and policies related to gender equality.
B.A. ENGLISH HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C101: INDIAN CLASSICAL LITERATURE**	The objective of this course is to acquaint the students with the rich cultural heritage of ancient Indian literature, especially Sanskrit Literature. Indian classical literature can claim the rare distinction of attaining the summit of creative excellence and artistic/aesthetic sensibility, especially in Sanskrit in the immortal plays of Kalidasa, the epics The Ramayana and The Mahabharata, Shudraka's Mrcchakatika, among others.Although Srimanta Sankaradeva of Assam cannot be regarded as 'classical' from the purview of temporality, his works are characterised by classical sensibilities and in the context of Assamese literature and culture, his works are held as immortal classics. Therefore, Sankardeva's inclusion in this course is determined by his works' timeless appeal and relevance. One of his famous plays Parijata Harana has been included
		C102: EUROPEAN CLASSICAL LITERATURE	European Classical literature implies the literature of ancient Greece and Rome. The study of 'ancient Greek literature' implies a study of literature written in Greek in the preChristian period, by non-Christians in the first six centuries of the Christian era. Roman literature, written in the Latin language remains an enduring legacy of the culture of ancient Rome. Latin literature drew heavily on the traditions of other cultures, particularly the more mature literary tradition of Greece, and the strong influence of earlier Greek authors are seen. The purpose of this course is to acquaint learners with the great heritage of European classical literature, starting from Homer's epic The Iliad to the satires of Horace. The importance of this course rests on the fact that English literature is heavily indebted to the classical works of Greece and Rome. Whether it is tragedy or comedy, satire or criticism, epic or lyric, the influence of classical literature in the works of the English authors is clearly in evidence. Therefore, learners will be acquainted with

			immortal classics like The Iliad and Metamorphosis, they get to learn about the difference between the Greek classics and the Latin classics, the different genres dabbled in by the classical writers, such as, tragedy, comedy, epic, satire, criticism and so forth.
		C201: INDIAN WRITING IN ENGLISH	Indian Writing in English refers to the body of work by writers in India who write English and whose native language could be one of the numerous languages of India. It is also associated with the works of members of the Indian Diaspora. As a category, this production comes under the broader realm of postcolonial literature- the production from previously colonized countries such as India. Indian English Literature is an honest enterprise to demonstrate the ever rare gems of Indian Writing in English. From being singular and exceptional, rather gradual native flare - up of geniuses, Indian Writing in English has turned out to be a new form of Indian culture and voice in which India converses regularly. Indian Writers - poets, novelists, essayists, and dramatists have been making momentous and considerable contributions to world literature since pre - Independence era, the past few years have witnessed a gigantic prospering and thriving of Indian English Writing in the global market. Indian English Literature has attained an independent status in the realm of world Literature. Wide ranges of themes are dealt within Indian Writing in English. While this literature continues to reflect Indian culture, tradition, social values and even Indian history through the depiction of life in India and Indians living elsewhere, recent Indian English fiction has been trying to give expression to the Indian experience of the modern predicaments. The aim of this course is to introduce learners to Indian Writing in English from the colonial to the postcolonial period. Issues such as identity politics, gendered differences, home, dislocation, language among others shall be underscored with the intention to understand the diversity of Indian culture and tradition across spatiality.
		C202: BRITISH POETRY AND DRAMA: 14TH TO 17TH CENTURIES	The objective of this course is to acquaint the learners with British poetry and drama from Chaucer to Shakespeare. The texts prescribed relate to the Age of Chaucer, Pre-Elizabethan and Elizabethan periods. Shakespeare figures predominantly in this course, with a tragedy, comedy and two sonnets prescribed. Marlowe's play encapsulates the spirit of the Renaissance, thereby placing the Elizabethan period in a proper perspective.

		C301: AMERICAN LITERATURE	The objective of this course is to introduce the learners to American literature, a field that could be considered as comparatively recent in formulation, when compared to the literature of Britain and Continental Europe. It is a literature steeped in the reactionary philosophy of its Puritan forbears, and has a strong individualistic spirit running through it. The reality or illusion of the Great American Dream, the transcendentalist movement, the history of slavery in the South, the great economic depression etc., forms important contexts to American history and literature, and this course would attempt to highlight these issues as much as possible. All of these would be taken up in this course.
		C302: POPULAR LITERATURE	Popular literature includes those writings intended for the masses and those that find favour with large audiences. It can be distinguished from artistic literature in that it is designed primarily to entertain (brittania.com). The objective of this course is to acquaint learners with popular literature, such as crime thriller, graphic fiction, children's literature and so forth, generally regarded by purists to be 'low-brow' and meant for easy mass consumption. However, it would be wrong to assume such a position insofar as the lines of distinction between what is literary and what is popular tends to be blurred.
		C303: BRITISH POETRY AND DRAMA: 17TH AND 18TH CENTURIES	English literature of the Seventeenth and the Eighteenth century was dominated by epoch-making political events, such as the Puritan Interregnum and the Restoration. These events were responsible for ushering in changes in the thought-processes of poets like Milton and Pope, dramatists like Webster and Behn, and so forth. From the romantic excesses of the Elizabethan literature to a literature marked by restraint and order, the learners would be in a position to experience a whole gamut of feelings that define a period and contradistinguishing it from another.
		C401: BRITISH LITERATURE: 18TH CENTURY	Continuing with Eighteenth-century literature, this course offers an array of texts across genres. The eighteenth-century was an age in which new modes of creative expression were coming to the fore, particular prose narratives of the likes of Swift and Sterne, among others. Irony and satire became important tools to depict society's ills. The age was also characterised by importance given to gender issues. Congreve's play bears enough testimony to this fact. Since, this period is also referred to as the Age of Enlightenment; 'reason' became the locus from which human's actions and cognition issued forth.

			Therefore, a fundamental philosophical shift ushered in, in the wake of the culture of positivism that set in during this period.
		C402: BRITISH ROMANTIC LITERATURE	The literature of the Romantic period is considered to be the most affective in terms of the ways in which it was able to connect with people across class lines. Product of the revolutionary zeal precipitated by two great revolutions – the French Revolution and the American War of Independence – the highly imaginative, rhetorical, emotive, visionary, metaphysical, epical, sensuous aspects of the works, especially poetry, gave tremendous heft to this literature celebrating Nature in all its beauty, majesty and terror. The Gothic Novel became a dominant genre, which attempted to debunk the structure of rationality by emphasising on the reality of the supernatural.
		C403: BRITISH LITERATURE: 19TH CENTURY	The nineteenth-century is emblematic of a certain spiritual crisis that had set in due to the powerful impact of scientific ideology. Utilitarian values exhorting personal aggrandisement at the cost of social responsibility became the practice of daily lives of the people. Such an attitude finds ample illustration in the works of the nineteenth-century novelists and poets. This period, especially after 1837 is termed as 'Victorian' literature – a term that evokes notions of propriety, prudishness, censorship, among others, that was in sharp relief against the spirit of the erstwhile Romantic period. The period is also marked by groundbreaking theories propounded by Darwin, Marx and Freud, which impacted the thought processes of the people to such a remarkable extent that its effects are felt up to the present. Therefore, a reading of nineteenth-century English literature provides a fascinating opportunity to immerse oneself into the fraught historical context determined by contradictory, oppositional drives and processes.
		C501: WOMEN'S WRITING	Unarguably the truest fact about human society is domination of women by men. Patriarchy believes in the superiority of man over women in all walks of life. Therefore, women were denied agency to air their views publicly or in writings. The fact that women had to resort to male pseudonyms in order to find readership is merely one instance to prove how patriarchal ideology has a stranglehold over the society at large. Since women have been systematically silenced by 'phallogocentric' ideology, they find it rather difficult to articulate their views. Privileging women's writing is a way by means of which the thought, anxieties, fears, desires, emotions of the 'second sex' can be

			addressed. The objective of this course is to introduce learners to women's writing, and in doing so attempting to underline the manner in which power operates to silence women from articulating their views. Apart from that, the course would also try to situate women's writing in a space that transcends or upends the male writing tradition through various (subversive) ways.
		C502: BRITISH LITERATURE: THE EARLY 20TH CENTURY	The early Twentieth-century British literature was characterised by experimentations on the level of both form and content. The imperialistic World War I impacted the minds of the people across Europe to such an extent that they began to suffer from various neurotic symptoms. Capitalism with its dehumanized processes and practices produced alienated, disenfranchised subjects, triggering a philosophical shift that was encapsulated in symbolism, existentialism, cubism, Dadaism, expressionism, and nihilism. These philosophies found ample space in Modernism in Literature, and this particular course attempts to chart these philosophical trajectories through early twentieth-century texts, particularly novels and poetry.
		C601: MODERN EUROPEAN DRAMA	The twentieth century marked the revival of drama after it was forced to shut down during the Puritan Interregnum. Even though the revival started during the Restoration Period, it subsequently lost ground during the Romantic and the Victorian Period. It was with the onset of the twentieth-century that drama made a magnificent return. It was in Europe, particularly the plays of the Norwegian playwright Henrik Ibsen, the German playwright Bertolt Brecht and French playwright Samuel Beckett that drama became an important vehicle for representing the political, social, individual, economic conditions the post-war Europe, with all its attendant ills and trauma. This course intends to read the plays by placing the epochal events of the period as the backdrop.
		C602: POSTCOLONIAL LITERATURES	his course introduces postcolonial literature to the learners. The importance of postcolonial studies in a globalised world in which more than three-quarters of the people living in the world today have had their lives shaped by the experience of colonialism, cannot be overestimated. The main focus in the course is on literary texts and literary analysis. The literary works chosen are English language texts from the erstwhile colonized countries including the countries subsumed under the rubric "the Commonwealth." In this course we will deploy postcolonial theory to engage critically with texts within a

			postcolonial framework. We will focus on such issues as language, identity, point of view, displacement, physical and mental colonisation, Decolonisation, nationalism, fundamentalism, globalisation and diaspora, colonial legacy, gender and sexuality, regionalism, ethnicity, genocide, race, and so forth, and we will discuss how such issues are expressed in the literary texts
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE 50110: MODERN INDIAN WRITING IN ENGLISH TRANSLATION**	Salman Rushdie had stirred the hornet's nest by claiming that Writings in English from India were infinitely superior to that of 'vernacular' literatures existing in all regional Indian languages. This notion was vehemently opposed by many writers and intellectuals, with the likes of Amit Chaudhuri writing sustained critique against Rushdie's position. A cursory reading of translated works of Indian writing across regions would prove how significant has been the contributions of authors writings in the various regional languages. Since, reading these works in the original is most often not possible due to linguistic variations, English translation of immortal works of modern Indian writing would perhaps go a long way in understanding and appreciating the best in regional literature. This course aims to acquaint learners with the works of Indian writers working on regional literature from the north to the south, from the west to the east.
		DSE 50120: LITERATURE OF THE INDIAN DIASPORA	Generally, diasporic literature deals with alienation, displacement, existential rootlessness, nostalgia, quest for identity, hybridity and so forth. Indian diaspora writers have contributed immensely to literature, especially those writing in English. Salman Rushdie, Amitav Ghosh, Vikram Seth, Jhumpa Lahiri, Rohintron Mistry, V.S. Naipaul etc. are luminaries in the field of fiction and their works have earned both critical acclaim and commercial success. The objective of this course is to introduce learners to literature of the Indian diaspora keeping in view the issues that haunt the writers who have settled abroad, despite being Indians in terms of roots and emotional make-up.
		DSE 50130: LITERARY CRITICISM	The course presents an overview of major trends in literary criticism from the Romantic period to the present. The critical trajectory comprises of Romantic theory of poetry propounded by Wordsworth and Coleridge, modernist poetics of Woolf and Eliot, New Criticism of Richards and Cleanth Brooks, and an introduction to recent trends in criticism, particularly feminist criticism (by Maggie Humm).
		DSE 50140: WORLD LITERATURES	World literature is sometimes used to refer to the sum total of the world's national literatures, but usually it refers to the circulation of

			works into the wider world beyond their country of origin. It is important insofar as it enables the learners to know about the form and content of texts that are part of different spatialities.
		DSE 60110: LITERARY THEORY	Literary theory is a field which is presently in great academic demand. It involves reading texts by deploying discourse/s. These discourses have political, social, economic, gendered, cultural values, and when one reads literature through such discursive lenses, interpretation of texts tend to be multiple and heterogeneous. The objective of this course is to acquaint learners with four relevant discourses or theories. These are Marxism, Feminism, Poststructuralism, and Postcolonial Studies.
		DSE 60120: LITERATURE AND CINEMA	This course investigates relationships between two media, film and literature, studying works linked across the two media by genre, topic, and style. It aims to sharpen appreciation of major works of cinema and of literary narrative.
		DSE 60130: PARTITION LITERATURE	The Partition was perhaps the most horrific event of the twentiethcentury subcontinent's history. Thousands of innocent people across the divided nation (India and Pakistan) lost their lives, millions lost their homes, and migrations of unimaginable magnitude took place. It is important to understand the backgrounds and reason for the partition, but also to consider its effects on the lives of the people involved. The historical accounts may not be enough; imaginative literature helps fill in the gaps in understanding the emotional impact of these events on people's lives. So, the objective of this course is to read literature that captures the sense of the times. There will also be film screenings since cinema also helps capture both the horror and the repercussions of these events.
		DSE 60140: TRAVEL WRITING	Travel writing is an important field of study nowadays. It is concerned with writings of travellers as they document the ways of a foreign culture, which might be ethnocentric in assumption, or some form of reverse ethnocentrism might be at work as well. The objective of this course is to read travellers' accounts of places from the past to the present. It encompasses writings of eminent travel writers from the medieval period to the present. The course will attempt to underscore the problematic associated with the genre, such as, the claims to authenticity of the narrativised events, the role of imagination, the ethnocentric gaze, the element of wonder, and so forth.
	GENERIC ELECTIVE (GE)	**GE.10210: LANGUAGE**	This course is designed to introduce the students with the basic

		LITERATURE AND CULTURE (Instead of ACADEMIC WRITING AND COMPOSITION)	concepts of language its characteristics its structure and how it functions The course further aims to familiarize the students how language is influenced by the socio-political-economic cultural realities of the society It also wants to acquaint the students about the relation between language and literature.
		GE.20210: MEDIA AND COMMUNICATION SKILLS	The objective of this course is to introduce learners to media and communication skills. In this digital-visual landscape, it is necessary to be equipped with knowledge and technical expertise of new media. This course will enable learners with skills pertaining to mass communication in all its manifestations.
		GE.30210: TEXT AND PERFORMANCE (To be replaced in lieu of Language and Linguistics	This course aims at enabling the students to understand the link between texts and the contexts against which they are created. It is designed to help students be acquainted with the technical aspects of performance while at the same time enabling them to appreciate the significance of adaptations of literacy of a particular social milieu
		GE.40210: CONTEMPORARY INDIA: WOMEN AND EMPOWERMENT	This course will familiarise learners with gender issues related to its construction, legislation, resistance and marginalisation in the pan-Indian context. The objective of this course is to sensitise learners to the multiple forms of subjugation that patriarch subjects women. It will also attempt to suggest strategies to resist or subvert such strategic silencing by means of an alternative discourse – feminism – a means to empower what Simone de Beauvoir ironically termed as the 'second sex.'
B.A. ENGLISH NON-HONOURS	**DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)**	**DSC 1A: THE INDIVIDUAL AND SOCIETY**	This course has been designed to acquaint and sensitise learners to the issues of caste/class, race , gender and violence that have become so much a part of everyday discourse. The learners will get acquainted with social issues, including the politics of how these are constructed, reinforced and sustained.
		DSC 1B: MODERN INDIAN LITERATURE	The objective of this course is to introduce learners to the most outstanding works produced in Modern Indian literature (from Premchand to Mahasweta Devi). Contemporary concerns find ample space texts ranging from short stories to poems.
		DSC 1C: BRITISH LITERATURE	This course has been devised with the intention of making the learners understand and appreciate the best of British literature from the Renaissance to the nineteenth century.
		DSC 1D: LITERARY CROSS CURRENTS	The objective of this course is to read literary texts across culture and space.

B.A. HINDI NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**DSC-01(A): HISTORY OF HINDI LITERATURE**	हिंदी साहित्य के विद्यार्थियों को हिंदी साहित्य के इतिहास का ज्ञान जरूरी है। हिंदी साहित्य लेखन की परंपरा, काल विभाजन, नामकरण और आदिकालीन साहित्य की जानकारी जब तक नहीं होगी; तब तक विद्यार्थियों का ज्ञान अधूरा माना जाएगा। उसी तरह हिंदी साहित्य का स्वर्णयुग कहा जाने वाला भक्तिकाल के कालजयी रचनाकारों कबीरदास, जायसी, सूरदास और तुलसीदास के साहित्य के बारे में भी जानना जरूरी है। स्वतंत्रता आंदोलन में हिंदी के योगदान को भी नकारा नहीं जा सकता है; इसमें पत्रकारिता का क्या योगदान था और हिंदी में गद्य लेखन की शुरुआत कब से होती है? इन सारे प्रश्नों के जवाब इस पत्र में उपलब्ध है। यही कारण है कि इस पत्र को पाठ्यक्रम में रखा गया है।
		DSC-01(B): HINDI POETRY IN MEDIAVAL PERIOD	हिंदी काव्य की एक अविच्छिन्न धारा आदिकाल से प्रवाहित होती रही है। हिंदी साहित्य को विभिन्न काल-खण्डों में बाँटा गया है। आदिकालीन काव्य के अंतःस्रोत के काव्य केवल; सुदृढ ही नहीं हुआ; बल्कि स्वर्णयुग के गरिमामय महिमा से मंडित होने का श्रेय भी प्राप्त किया। हिंदी का यह स्वर्णमय कालखंड भक्तिकाव्य है। भक्तिकाल में एक अन्य प्रवृति का विकास हुआ, वह था रीतिकाव्य। रीति काव्यधारा ने हिंदी काव्य प्रवाह में एक नया रंग घोला। अतः इस काल का सम्यक अध्ययन कर इस काल के कवियों एवं उनके द्वारा सृजित कविताओं का अध्ययन इस पत्र का मुख्य उद्देश्य है।
		DSC-01(C): MODERN HINDI POETRY	हिंदी साहित्य का आधुनिक काल का प्रारम्भ 1850 ई० से माना जाता है जिसका मूल कारण पाश्चात्य प्रभाव रहा है। पाश्चात्य संसाधनों से रूबरू होने के कारण हमारी सोच में परिवर्तन होने लगा। इस काल में भारत में राष्ट्रीय बीज अंकुरित हुए। छापेखाने का आविष्कार हुआ जिसका प्रभाव प्रत्यक्ष और परोक्ष रूप से हिंदी काव्य पर भी पड़ा। बीसवीं शताब्दी भारत के लिए उथल-पुथल वाला काल रहा है। हर क्षेत्र में यहाँ बदलाव देखने को मिलता है। साहित्यिक दृष्टि से देखें तो जितना परिवर्तन पिछले सौ वर्षों में नहीं हुआ था; उतना बदलाव अगले 50 वर्षों में दिखने को मिला। इस काल में भारत को आजाद कराने की छटपटाहट और आजादी के बाद राजनीति से बहुत जल्द ही मोहभंग होने लगा। जिसके प्रति एक विद्रोही स्वर स्वाधीनोत्तर कविताओं में देखने को मिलती है। अतएव इस काल के विषय में सम्यक अनुशीलन करने तथा जानकारी हासिल करना ही इस पत्र का मुख्य उद्देश्य है।
		DSC-01(D): HINDI LITERATURE (PROSES)	संस्कृत साहित्य में गद्य की सुदीर्घ परंपरा रही है, लेकिन हिंदी में इसका आगमन बहुत बाद में होता है। 19 वीं शताब्दी के बाद हिंदी में गद्य साहित्य की इतनी उन्नति हुई कि इस काल को गद्य काल की संज्ञा दे दी गई । आधुनिक काल के पहले गद्य अविकसित भले ही रहा है, लेकिन उसका अभाव नहीं रहा है। इसके विकास में भारतेन्दु युग का महत्वपूर्ण योगदान रहा है। हिंदी गद्य का प्रौढ़तम रूप द्विवेदी युग के परवर्ती युग में दिखाई पड़ता है। गद्य के विभिन्न विधाओं की दृष्टि से भी यह युग वैविध्य पूर्ण दिखाई पड़ता है। इस पत्र में इस युग की गद्य-साहित्य की समस्त विधाओं को नहीं; केवल उपन्यास, कहानी और निबंध को जगह दी गई है। इसे पढ़कर विद्यार्थी अपने गद्य साहित्य की जानकारी को बढ़ा सकेंगे।

	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**DSE-01: KABIRDAS**	निर्गुण भक्ति काव्यधारा के प्रमुख संत कवि कबीर जैसा व्यक्तित्व लेकर दूसरा कोई और कवि पैदा नही हुआ। कबीर ने अपनी कविताओं के माध्यम से जन साधारण का ध्यान अपनी ओर खींचा है। अपने निर्भीक वाणियों के द्वारा कबीर ने समाज में फैले कुरीतियों जैसे - जाति, धर्म, संप्रदाय, ऊंच-नीच, भेद-भाव, और बाहयचार के खिलाफ जितनी मुस्तैदी से आवाज उठाई है और अपनी कविताओं से सबको लपेटा है; उतना उस काल में कौन कहे आज भी किसी कवि में हिम्मत नहीं है। सामाजिक जीवन में रहकर भी सामाजिक बुराईयों से कैसे बचा जा सकता है, वह कबीर से सीखने की जरूरत है। आज के युग में भी कबीर उतने ही प्रासंगिक हैं; जितना पहले थे। उम्मीद है; छात्र कबीर की व्यक्तित्व और कविताओं से प्रभावित होंगे। इस बात को ध्यान में रखते हुए इस पत्र को पाठ्यक्रम में रखा गया है।
		DSE-02: TULSIDAS	विषयगत विशेष ऐच्छिक पाठ्यक्रम के संयोजन का एक विशेष महत्त्व है। मुख्य पाठ्यक्रम के साथ यह संबन्धित है। संत तथा कवि तुलसीदास की रचनाओं पर आधारित यह पाठ्यक्रम विद्यार्थियों के लिए अत्यंत लाभदायक सिद्ध होगा। उनके द्वारा लिखित भक्ति के पद सम्पूर्ण भक्ति साहित्य की अनमोल निधि हैं । उन्होंने **रामचरितमानस** की रचना कर तत्कालीन अशांत भारत में आदर्श और मर्यादा को पुनः स्थापित किया था। उनका काव्य लोकमंगल का काव्य है। इसीलिए आज भी तुलसीदास की रचनाएँ प्रासंगिक हैं। इस पाठ्यक्रम का उद्देश्य और इसकी प्रमुख उपलब्धियाँ कुछ प्रकार हैं, तुलसीदास के असाधारण व्यक्तित्व पर प्रकाश डालना। **रामचरितमानस** के अध्ययन से विद्यार्थियों को आदर्श और मर्यादा के साथ साथ नैतिक ज्ञान भी प्राप्त होगा। **कवितावली** और **गीतावली** के माध्यम से तुलसीदास की काव्य प्रतिभा तथा भक्ति की जानकारी प्राप्त होगी। **विनयपत्रिका** हिंदी साहित्य की अनमोल निधि है। तुलसीदास ने **विनयपत्रिका** में दास्य भक्ति का अत्यंत सुंदर प्रदर्शन किया है। आत्मसमर्पण का ऐसा निदर्शन अन्यत्र दुर्लभ है ।
		DSE-03: HINDI ARTICLES	निबंध आधुनिक गद्य साहित्य की एक लोकप्रिय और सशक्त विधा है। इस विधा का ढाँचा पाश्चात्य साहित्य से ग्रहण किया गया है। निबंध को आचार्य रामचन्द्र शुक्ल ने गद्य की कसौटी कहा है। भारतेन्दु युग में निबंध का ढाँचा ढीला-ढाला था, लेकिन महावीर प्रसाद द्विवेदी युग में आकार लोगों में चीजों को विवेकपूर्ण और वैज्ञानिक दृष्टि से देखने की प्रवृत्ति बढ़ी और ज्ञान-विज्ञान के अनेक विषयों पर निबंध लिखे जाने लगा। आचार्य रामचन्द्र शुक्ल इस काल में सशक्त निबंधकार के रूप में उभरे और यह काल शुक्ल युग से जाना जाने लगा। इस पत्र में बालकृष्ण भट्ट से लेकर कुबेरनाथ राय तक के निबंधों को लिया गया है, जिससे छात्रों को निबंध की एक सुदीर्घ परंपरा के बारे में जानकारी मिलेगी। साथ ही निबंध लिखने की क्षमता बढ़ेगी।

		DSE-04: PROYOJONPOROK HINDI	साहित्य भाषा को प्रतिष्ठा दे सकता है लेकिन विस्तार नहीं। भाषा को विस्तार देता है उसका प्रयोजनमूलक स्वरूप। प्रयोजनमूलक भाषा के रूप में हिंदी को वैश्विक प्रसार मिला हैं। हिंदी के प्रयोजनमूलक स्वरूप के विकास के कारण ही आज सम्पूर्ण भारत में ही नहीं बल्कि विश्व में भी हिंदी को समझने और बोलने वाले मिल जाते हैं। हिंदी का विकास आज राजकीय माध्यमों के द्वारा नहीं बल्कि दूसरे माध्यमों से हो रहा है, जिसमें चलचित्र, दूरदर्शन उद्योग और व्यापार का योगदान अधिक है। आज हिंदी के प्रयोजनमूलक संदर्भों से जो क्षेत्र जुड़े हुये हैं उसका ज्ञान अर्जित करने हेतु प्रयोजनपरक हिंदी को पाठ्यक्रम में स्थान दिया गया है।
	GENERIC ELECTIVE (GE)	**GEC-1: MODERN INDIAN POETRY**	साहित्य अपने समय का सच्चे अर्थों में प्रतिबिंब होता है। भारत एक बहुभाषिक देश है। हर भाषा का अपना साहित्य होता है। कवि अपने समाज की गतिविधियों पर पैनी निगाह रखता है और समाज में जो गतिविधियां चलती रहती है; उसे ही आधार बनाकर अपनी भावनाओं को शब्दबद्ध कर कविता का रूप देता हैं। एक भाषा के कवियों की संवेदना, भाव एवं विचार दूसरी भाषा के कवियों में भी एक साथ दिखाई देती है, यानी संवेदना, भाव एवं विचार पूरे देश के कवियों की एक ही होती है। इस पत्र में उत्तर से दक्षिण और पूरब से पश्चिम तक के कवियों की संवेदनाओं को एक साथ समझने का साझा प्रयास किया गया है। इस पत्र के माध्यम से छात्र हिंदी कविताओं के अलावा दूसरी भाषा के कवियों की कविताओं का एक साथ आनंद उठा सकेंगे। इसी उद्देश्य से इसे पाठ्यक्रम में रखा गया है।
		GEC-2: WESTERN PHILOSOPHY AND HINDI LITERATURE	पश्चिम में साहित्य चिंतन की सुदीर्घ परंपरा को विद्यार्थियों के लिए सहज, ग्राह्य रूप से सुलभ कराने की दिशा में प्रस्तुत पाठ्यक्रम एक महत्वपूर्ण प्रयास है। विश्लेषण पद्धति, नई समीक्षा, विभिन्न वाद, इस पाठ्यक्रम का प्रमुख आकर्षण है। भारतीय काव्यशास्त्र के साथ-साथ पाश्चात्य काव्यशास्त्र के बारे में भी जानना आवश्यक है। इसमें विद्यार्थी विभिन्न विद्वानों के द्वारा दिये गए सिद्धांतो के साथ पाश्चात्य काव्यशास्त्र के स्वरूप के बारे भी समझने में सक्षम होंगे।
B.A. HISTORY HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C101: COURSE HISTORY OF INDIA- I**	The objective of this course is to analyze the various source materials for the reconstruction of Ancient Indian History and the approaches of historical reconstruction. The students will be acquainted the various ancient cultures, the technological, economic, political and religious development of the period concerned.
		C102: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD	The students will acquainted with the evolution of humankind, the beginning of food production, the Bronze Age., advent of iron, the slave society in ancient Greece, the economy and the Political culture of the ancient Greece .
		C103: HISTORY OF INDIA II	The objective of this course is to acquaint the students with agrarian economy (i) the growth of urban centres in northern and central India and the Deccan as well as craft production, trade routes and coinage (ii) Process of state formation and the Mauryan and post-Mauryan plities with special reference to the Kushnas, Satavahanas and Gana-Sanghas. (iii) Land grants, land rights and peasantry, urban decline and

			religious traditions of early India
		C104: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD	The learners will be acquainted with the Roman Empire, slave society, the cultural and trade. (ii) The learners will be acquainted with the crisis and disintegration of the Roman Empire (iii) The learners will be exposed to Economic development in Europe from 7th to 14th centuries covering production, technological developments, growth of towns and trade and feudal crisis
		C105: HISTORY OF INDIA III (C. 750 -1206)	Studying Early Medieval India, Political Structures: Agrarian Structure and Social Change, Trade and Commerce, Religious and Cultural Developments:
		C106: RISE OF THE MODERN WEST - I	Transition from Feudalism to Capitalism: Problems and Theories, Early Colonial Expansion: Motives, Voyages and Explorations, The Conquests of the Americas: Beginning of the era of Colonization; Mining and Plantation and The African Slaves.
		C107: HISTORY OF INDIA IV (C.1206 - 1550)	Interpreting the Delhi Sultanate: Survey of sources:, Sultanate Political Structures, Emergence of provincial Dynasties, Society and Economy and Religion, Society and Culture
		C108: RISE OF THE MODERN WEST - II	Agriculture and Industry in Europe in the 17th century , 17th century European crisis: economic dimensions, Political and social dimension of the 17th century European crisis and Impact of the 17th century crisis on Italy, France, Spain and England.
		C109: HISTORY OF INDIA V (C. 1550 - 1605)	Sources and Historiography, Establishment of Mughal rule, Consolidation of Mughal rule under Akbar, Society and Economy and Political and religious ideals
		C1010: PAPER X: HISTORY OF INDIA VI (C. 1605 - 1750S)	Sources, Political Culture under Jahangir and Shah Jahan, Mughal Empire under Aurangzeb and after, Visual Culture and Trade and Commerce.
		C1011: HISTORY OF MODERN EUROPE- I (C. 1780-1919)	The French Revolution and its European Repercussions, Restoration and Revolution: c. 1815 – 1848, Capitalist Industrialization and Social and Economic, Varieties of Nationalism and the Remaking of States in the 19th and 20th Centuries and World War I.
		C1012: HISTORY OF INDIA VII (C. 1750 - 1857)	India in the Mid-18th Century, Colonial State and Ideology, Rural Economy and Society, Trade and Industry and Popular Resistance.
		C1013: HISTORY OF INDIA VIII (C. 1857 - 1950)	Cultures Changes and Social and Religious Reform Movements.
		C1014: HISTORY OF	Liberal Democracy, Working Class Movements and Socialism in the

		MODERN EUROPE II (C. 1780 -1939)	19th and 20th Centuries
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**DSE501: EARLY AND MEDIEVAL ASSAM TILL 1826**	Sources: Archaeological, Numismatic, Epigraphy, Literary Sources, State Formation in Early Assam, Varmana, Salastambha and Pala dynasty
		DSE502: HISTORY OF MODERN ASSAM: 1826 – 1947	Political Condition in Assam on the Eve of the British rule. Establishment and Consolidation of the British rule – Reforms and Reorganizations - David Scott, Jenkins and Robertson – Annexation of Lower Assam, Administrative Reorganizations and Revenue Measures.
		DSE601: SOCIAL AND ECONOMIC HISTORY OF ASSAM	Social and Economic History of Ancient Assam, Society in Medieval Assam, Economy in Medieval Assam, Society in Colonial Assam and Economy in Colonial Assam.
		DSE602: HISTORIOGRAPHY	Concept and Sources, Evolution of Historiography, Renaissance to Enlightenment Historiography, Historical Traditions in India and Development of History Writing in India in Modern Period.
		DSE603: HISTORY OF THE UNITED STATES OF AMERICA (C.1776-1945)	The land and Indigenous People: Settlement and Colonization by Europeans, Revolution: Sources of Conflict, Revolutionary groups, Ideology: The War of Independence and its Historical Interpretations, Processes and Features of Constitution Making: Debates.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE 1 : HISTORY OF ASSAM: 1228 –1826**	The objective of this paper is to give a general outline of the history of Assam from the 13th century to the occupation of Assam by the English East India Company in the first quarter of the 19th century. It aims to acquaint the students with major stages of developments in the political, social and cultural history of the state during the most important formative period.
		GE 2 : HISTORY OF INDIA FROM THE EARLIEST TIMES TO 1526	The objective of this paper is to acquaint the students with the general outline of the history of India from the known earliest times to the coming of the Mughals to India in the first quarter of the 16th century. It is aimed at giving them a comprehensive idea of the developments in all spheres of life during this period
		GE 3 : HISTORY OF INDIA: 1526 - 1947	Political Conditions in Northern India in the beginning of the 16th century- The Afghan Empire and the Mughals- Resistance vs. Struggle for Hegemony. The Age of the Mughals- Foundation of the Mughal Empire- Humayun and His struggleConflict with Sher Shah Akbar to Aurangzeb- Political Supremacy and Administrative Developments.
		GE 4.1 HISTORY OF MODERN ASSAM: 1826 –	Political Condition in Assam on the Eve of the British rule. Establishment and Consolidation of the British rule – Reforms and

		1947	Reorganizations - David Scott, Jenkins and Robertson – Annexation of Lower Assam, Administrative Reorganization and Revenue Measures
		GE 4.2 HISTORY OF EUROPE: 1453-1815	Renaissance- meaning -background-impacts Reformation- origin, courses and consequences; Counter Reformation The Thirty Years War- causes and consequences
B.A. HISTORY NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C101: HISTORY OF ANCIENT INDIA**	The paper intends to acquaint the students with the emergence of state system in north India, the development of imperial state structure, the state formation in the Deccan and in South India in the early period. The paper will apprise the students with the changes and transformations in polity, economy and society in the early period and the cultural interactions of early India with the Southeast Asian Countries.
		C201: HISTORY OF MEDIEVAL INDIA	The Objective of the Paper is to acquaint the pupils with political development in India between 1200- 1750. It requires the pupils to understand the States in Medieval Times, Administrative apparatus and society, economy and culture of India in Pre-Modern Period.
		C301: HISTORY OF MODERN INDIA	Decline and the Disintegration of the Mughal Empire and the Growth of Regional Powers Eighteenth Century Debate in Indian History The Battle of Plassey and the Battle of Buxar - the Establishment of the British Rule in India. Robert Clive- Dual Administration in Bengal.
		C401: EARLY AND MEDIEVAL ASSAM TILL 1826	Sources: Archaeological, Numismatic, Epigraphy, Literary Sources, State Formation in Early Assam, Varmana, Salastambha and Pala dynasty.
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**DSE1: RISE OF MODERN WEST**	Renaissance- meaning -background-impacts Reformation- origin, courses and consequences; Counter Reformation The Thirty Years War- causes and consequences.
		DSE 2.1: HISTORY OF EUROPE: 1815 - 1945	The Congress of Vienna, The Concert of Europe : Peace Settlements and its impact, Metternich System and Balance of Power.
		DSE 2.2: POLITY, SOCIETY AND ECONOMY OF MODERN ASSAM (1826-1947)	Political Condition in Assam on the Eve of the British Rule. Establishment and Consolidation of the British rule – Reforms and Reorganizations- the role of David Scott, Robertson and Jenkins, Early phase of Revolts and Resistance to British rule- Gomdhar Konwar, Piyali Phukan, U.Tirut Singh, the Khamti and the Singpho rebellion.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-5: WOMEN IN INDIAN HISTORY**	Definition and Scope, Feminist Movements and Development of Women's History, Key Concepts in Women's Studies – Gender, Patriarchy and Sexual Division of Labour, Sources for Reconstruction of Women's History – Oral Narratives, Memoirs, Diaries, Autobiographies

			etc.
		GE-6: ENVIRONMENTAL HISTORY	Emergence of Environmental History as a Branch of History, Mode of Resource Utilization: Gathering, Nomadic, Pastoralism, Agricultural Mode and Industrial Mode; Resource Use Patterns in Indian History, Ecology and Environment, Ecosystem and Population Interaction and Geographical Background of the Indian Subcontinent
B.A. POLITICAL SCIENCE HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**1.1 COURSE -I: UNDERSTANDING POLITICAL THEORY**	The units introduce the students to the idea of political theory, its history and approaches, and an assessment of its critical and contemporary trends. Further the last two units tend to reconcile political theory and practice through reflections on the ideas and practices related to State, Citizenship and Democracy.
		1.2 COURSE II: CONSTITUTIONAL GOVERNMENT AND DEMOCRACY IN INDIA	This course acquaints the students with the constitutional design of States' structure and institutions, and their actual working over time. The Constitution of India accommodates conflicting impulses (of liberty and justice, territorial decentralization and a strong union, for instance) within itself. The course traces the embodiment of some of these conflicts in constitutional provisions, and shows how these have played out in political practice. It further encourages a study of state institutions in their mutual interaction, and in interaction with the larger extra-constitutional environment.
		2.1 COURSE III: POLITICAL THEORY: CONCEPTS AND DEBATES	The Course 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. Further this course introduces the students to the important debates in the subject. These debates prompt us to consider that there is no settled way of understanding concepts and that 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.
		2.2 COURSE IV: 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.
		3.1 COURSE V: 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.
		3.2 COURSE -VI: 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.
		3.3 COURSE VII: 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.
		4.1 COURSE VIII: 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.
		4.2 COURSE -IX: PUBLIC	The paper seeks to provide an introduction to the interface between

		POLICY AND ADMINISTRATION IN INDIA	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.
		4.3 COURSE – X: 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.
		5.1 COURSE - XI: 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.
		5.2 COURSE – XII: 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.
		6.1 COURSE – XIII: MODERN POLITICAL PHILOSOPHY	Philosophy and politics are closely intertwined. We explore this convergence by identifying five 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.
		6.2 COURSE – XIV: 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
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**SEMESTER-V: DSE-1A: CONTEMPORARY POLITICS IN ASSAM**	The primary aim of this paper is acquaint with the students with the politics of contemporary Assam and its neighbouring states. Moreover, being located in the Northeast region it is invariably the concern of the students to have proper understanding of the region.
		SEMESTER-V: DSE-1B: DILEMMAS IN POLITICS	This course is designed to explore, analyze and evaluate some of the central issues, values and debates in the/ contemporary world that has a bearing on normative political inquiry. The eight issues selected as dilemmas, though not exhaustive, are some of the salient ones discussed across societies.
		SEMESTER-V: DSE-2A: HUMAN RIGHTS IN COMPARATIVE PERSPECTIVE	This course attempts to build an understanding of human rights among students through a study of specific issues in a comparative perspective. It is important for students to see how debates on human rights have taken distinct forms historically and in the contemporary world. The course seeks to anchor all issues in the Indian context, and pulls out another country to form a broader comparative frame. Students will be expected to use a range of resources, including films, biographies, and official documents to study each theme. Thematic discussion of sub-topics in the second and third sections should include state response to issues and structural violence questions.
		SEMESTER-V: DSE-2B: DEVELOPMENT PROCESS AND SOCIAL MOVEMENTS IN CONTEMPORARY INDIA	Under the influence of globalization, development processes in India have undergone transformation to produce spaces of advantage and disadvantage and new geographies of power. The high social reproduction costs and dispossession of vulnerable social groups involved in such a development strategy condition new theatres of contestation and struggles. A variety of protest movements emerged to interrogate and challenge this development paradigm that evidently also weakens the democratic space so very vital to the formulation of critical consensus. This course proposes to introduce students to the conditions, contexts and forms of political contestation over development paradigms and their bearing on the retrieval of democratic voice of citizens.
		SEMESTER-VI: DSE 3A: PUBLIC POLICY IN INDIA	This course provides a theoretical and practical understanding of the concepts and methods that can be employed in the analysis of public policy. It uses the methods of political economy to understand policy

			as well as understand politics as it is shaped by economic changes. The course will be useful for students who seek an integrative link to their understanding of political science, economic theory and the practical world of development and social change.
		SEMESTER-VI: DSE 3B: UNDERSTANDING GLOBAL POLITICS	This course aims to provide students a basic yet interesting and insightful way of knowing and thinking about the world around them. It is centered around three sets of basic questions starting with what makes the world what it is by instructing students how they can conceptualize the world and their place within it. The second module focuses on the basic fault lines that drives the world apart and the last one is designed to help students explore how and why they need to think about the 'world' as a whole from alternate vantage points.
		SEMESTER: VI DSE 4A: INDIA'S FOREIGN POLICY IN A GLOBALIZING WORLD	This course's objective is to teach students the domestic sources and the structural constraints on the genesis, evolution and practice of India's foreign policy. The endeavour is to highlight integral linkages between the 'domestic' and the 'international' aspects of India's foreign policy by stressing on the shifts in its domestic identity and the corresponding changes at the international level. Students will be instructed on India's shifting identity as a postcolonial state to the contemporary dynamics of India attempting to carve its identity as an 'aspiring power'. India's evolving relations with the superpowers during the Cold War and after, bargaining strategy and positioning in international climate change negotiations, international economic governance, international terrorism and the United Nations facilitate an understanding of the changing positions and development of India's role as a global player since independence.
		SEMESTER: VI DSE 4B: UNDERSTANDING SOUTH ASIA	The course introduces the historical legacies and geopolitics of South Asia as a region. It imparts an understanding of political regime types as well as the socioeconomic issues of the region in a comparative framework. The course also apprises students of the common challenges and the strategies deployed to deal with them by countries in South Asia.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**SEMESTER-I GE-1A: NATIONALISM IN INDIA**	The purpose of this course is to help students understand the struggle of Indian people against colonialism. It seeks to achieve this understanding by looking at this struggle from different theoretical perspectives that highlight its different dimensions. The course begins with the nineteenth century Indian responses to colonial dominance in the form of reformism and its criticism and continues through various

			phases up to the events leading to the Partition and Independence. In the process, the course tries to highlight its various conflicts and contradictions by focusing on its different dimensions: communalism, class struggle, caste and gender questions.
		GE-1B: CONTEMPORARY POLITICAL ECONOMY	Given the growing recognition worldwide of the importance of the political economy approach to the study of global order, this course has the following objectives: 1. To familiarize the students with the different theoretical approaches; 2. To give a brief overview of the history of the evolution of the modern capitalist world; 3. To highlight the important contemporary problems, issues and debates on how these should be addressed.
		SEMESTER-II GE-2A: FEMINISM: THEORY AND PRACTICE	The aim of the course is to explain contemporary debates on feminism and the history of feminist struggles. The course begins with a discussion on construction of gender and an understanding of complexity of patriarchy and goes on to analyze theoretical debates within feminism. The paper also covers the history of feminism in the west, socialist societies and in anti-colonial struggles. Further a gendered analysis of Indian society, economy and polity with a view to understanding the structures of gender inequalities.
		SEMESTER-II GE-2B: GANDHI AND THE COTEMPORARY WORLD	This course seeks to elaborate Gandhian thought and examine its practical implications. It will introduce students to key instances of Gandhi's continuing influence right up to the contemporary period and enable them to critically evaluate his legacy.
		SEMESTER-III GE-3A: UNDERSTANDING AMBEDKAR	This course is broadly intended to introduce Ambedkar's ideas and their relevance in contemporary India, by looking beyond caste. Ambedkar's philosophical contributions towards Indian economy and class question, sociological interpretations on religion, gender, caste and cultural issues; ideas on politics such as concepts of nation, state,democracy, law and constitutionalism are to be pedagogically interrogated and interpreted.This will help students to critically engage themselves with the existing social concerns, state and economic structures and other institutional mechanisms. This also will facilitate them to strengthen their creative thinking with a collective approach to understand ongoing social, political, cultural and economic phenomena of the society.
		SEMESTER-III GE-3B: GOVERNANCE: ISSUES AND CHALLENGES	This paper deals with concepts and different dimensions of governance highlighting the major debates in the contemporary times. There is a need to understand the importance of the concept of

			governance in the context of a globalising world, environment, administration, development. The essence of governance is explored through the various good governance initiatives introduced in India.
		SEMESTER-IV GE-4A: POLITICS OF GLOBALIZATION	The objective of this generic elective paper is to make students from diverse background understand the process of globalization from a political perspective. This paper will create a broad understanding of the issues and processes globalization based on critical analysis of the various anchors and dimensions of globalization.
		SEMESTER-IV GE-4B: UNITED NATIONS AND GLOBAL CONFLICTS	This course provides a comprehensive introduction to the most important multilateral political organization in international relations. It provides a detailed account of the organizational structure and the political processes of the UN, and how it has evolved since 1945, especially in terms of dealing with the major global conflicts. The course imparts a critical understanding of the UN's performance until now and the imperatives as well as processes of reforming the organization in the context of the contemporary global system.
B.A. POLITICAL SCIENCE NON-HONOURS	**DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)**	**SEMESTER-I DSC- 1 A: INTRODUCTION TO POLITICAL THEORY**	This course aims to introduce certain key aspects of conceptual analysis in political theory and the skills required to engage in debates surrounding the application of the concepts.
		SEMESTER-II DSC- 1 B: INDIAN GOVERNMENT AND POLITICS	This course aims to introduce with the learner regarding Indian Government and its policy relating to running of the Government.
		SEMESTER-III DSC- 1C: COMPARATIVE GOVERNMENT AND POLITICS	This course aims to introduce with the learner regarding comparative Government and its policy relating to running of the Government.
		SEMESTER-IV DSC- 1D: INTRODUCTION TO INTERNATIONAL RELATIONS	This Course is designed to give students a sense of some important theoretical approaches to understand international relations; a history from 1945 onwards to the present; and an outline of the evolution of Indian foreign policy since independence and its possible future trajectory.
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**SEMESTER-V DSE 1A (I) : THEMES IN COMPARATIVE POLITICAL THEORY**	This course aims to familiarize students with the need to recognize how conceptual resources in political theory draw from plural traditions. By chiefly exploring the Indian and Western traditions of political theory through some select themes, the overall objective is to appreciate the value and distinctiveness of comparative political theory.

		SEMESTER-V DSE 1A (II): ADMINISTRATION AND PUBLIC POLICY: CONCEPTS AND THEORIES	This course aims to introduce with the learner with administration and public policy – its basic concept and the theory behind the administration and its policy.
		SEMESTER-VI DSE 1B (I): DEMOCRACY AND GOVERNANCE	This Paper tries to explain the institutional aspects of democracy and how institutions function within a constitutional framework. It further delves into how democracy as a model of governance can be complimented by institution building.
		SEMESTER-VI DSE 1B (II): UNDERSTANDING GLOBALIZATION TOTAL LECTURES AND TUTORIALS - 84	The Purpose of this course is to give students a basic understanding of what is meant by the phenomenon of globalization, its sources and forms. In addition, students will obtain a familiarity with both key global actors and certain urgent problems that require solutions at global level.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**SEMESTER-V GE 1: READING GANDHI**	The course seeks to meet two essential objectives: one, to acquaint the students with the art of reading texts, to enable them to grasp its conceptual and argumentative structure and to help them acquire the skills to locate the texts in a broader intellectual and socio-historical context. Second, it aims to acquaint the students with the social and political thought of Gandhi. The themes in Gandhian thought that are chosen for a close reading are particularly relevant to our times.
		SEMESTER-VI GE 2: HUMAN RIGHTS GENDER AND ENVIRONMENT	This course aims at enabling the students to understand the issues concerning the rights of citizens in general and the marginalized groups in particular, and assess the institutional and policy measures which have been taken in response to the demands of various movements. Conceptual dimensions, international trends and the Indian experience form the contents of the course.
B.A. SOCIOLOGY HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**CORE COURSE 1: INTRODUCTION TO SOCIOLOGY – I (SEMESTER I)**	The mandate of the course is to introduce the discipline to students from diverse trainings and capabilities. The course is intended to introduce the students to a sociological way of thinking. It also provides a foundation for the other more detailed and specialized courses in sociology.
		CORE CORSE 02: SOCIOLOGY OF INDIA – I (SEMESTER I)	This paper introduces the processes and modes of construction of knowledge of India. Further, it aims to draw attention to the key concepts and institutions which are useful for the understanding of Indian society.
		CORE COURSE 03: INTRODUCTION TO	The course aims to provide a general introduction to sociological thought. The focus is on studying from the original texts to give the

		SOCIOLOGY II (SEMESTER II)	students a flavor of how over a period of time thinkers have conceptualized various aspects of society. This paper also provides a foundation for thinkers in the other papers.
		CORE COURSE 04: SOCIOLOGY OF INDIA – II (SEMESTER II)	This paper aims to draw attention to the variety of ideas and debates about India. Further, it critically engages with the multiple socio-political forces and ideologies which shape the terrain of the nation.
		CORE COURSE 05: POLITICAL SOCIOLOGY (SEMESTER III)	This course introduces the students to some major theoretical debates and concepts in Political Sociology, while situating these within contemporary political issues. A key thrust of the paper is towards developing a comparative understanding of political relationships through themes such as power, governance and state and society relationships.
		CORE COURSE 06: SOCIOLOGY OF RELIGION (SEMESTER III)	The course lays primacy to the understanding of religious over individual religions. Drawing heavily from classical writings on the subject it reinforces importance of the positions developed in these texts. Implicitly numerous interconnections can be at-tempted between various themes, manifestly the overarching concern of the paper is to follow up the linkage between social and religious through different registers mentioned in the outline.
		CORE COURSE 07: SOCIOLOGY OF GENDER (SEMESTER III)	The course introduces gender as a critical sociological lens of enquiry in relation to various social fields. It also interrogates the categories of gender, sex, and sexuality.
		CORE COURSE 08: ECONOMIC SOCIOLOGY (SEMESTER IV)	The course provides an understanding of the social and cultural bases of economic activity. It highlights the significance of sociological analysis for the study of economic processes in local and global contexts.
		CORE COURSE 09: SOCIOLOGY OF KINSHIP (SEMESTER IV)	This course aims to introduce general principles of kinship and marriage by reference to key terms and theoretical statements substantiated by ethnographies. The course looks at the trajectories and new directions in kinship studies.
		CORE COURSE 10: SOCIAL STRATIFICATION	This course introduces students to Sociological Study of Social Inequalities. It acquaints students with principal theoretical

		(SEMESTER IV)	perspectives on and diverse forms of Social inequality in articulation with each other.
		CORE COURSE 11: SOCIOLOGICAL THINKERS I (SEMESTER V)	The course introduces the students to the classics in the making of the discipline of sociology through selected texts by the major thinkers.
		CORE COURSE 12: SOCIOLOGICAL RESEARCH METHODS I (SEMESTER V)	The course is a general introduction to the methodologies of sociological research methods. It will provide the student with some elementary knowledge of the complexities and philosophical underpinnings of research.
		CORE COURSE 13: SOCIOLOGICAL THINKERS II (SEMESTER VI)	To introduce students to post-classical sociological thinking through some original texts.
		CORE COURSE 14: SOCIOLOGICAL RESEARCH METHODS II (SEMESTER VI)	The course is an introductory course on how research is actually done. With emphasis on formulating research design, methods of data collection, and data analysis, it will provide students with some elementary knowledge on how to conduct both, quantitative and qualitative research.
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**DSE-01: URBAN SOCIOLOGY**	This course provides an exposure to key theoretical perspectives for understanding urban life in historical and contemporary contexts. It also reflects on some concerns of urban living while narrating the subjective experiences of urban communities. With case studies from India and other parts of the world this course will help students relate to the complexities of urban living.
		DSE-02: AGRARIAN SOCIOLOGY	This course explores the traditions of enquiry and key substantive issues in agrarian sociology. It is comparative in nature, but pays attention to Indian themes. It also introduces emerging global agrarian concerns.
		DSE-03: ENVIRONMENTAL SOCIOLOGY	This course is designed to introduce students to the core debates of environmental sociology, different approaches within the sub-discipline and how

			these approaches may be used to understand environmental issues and movements in India.
		DSE-04: SOCIOLOGY OF WORK	The course introduces the idea that though work and production have been integral to societies through time, the origin and spread of industrialization made a distinct rupture to that link. This rupture can also be seen mirrored in the coming of sociology as a discipline that considered work as central to the study of society. Based on this premise the paper goes on to provide an outline as to how values and ideals of pluralized industrialism(s) have caused an absorbed multiple transformative shifts to the local and global social networks of the contemporary world.
		DSE-05: SOCIOLOGY OF HEALTH AND MEDICINE	The course introduces students to the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge. Theoretical perspectives examine the dynamics shaping these constructions. Negotiations of health and illness are explored through ethnographies.
		DSE-06: INDIAN SOCIOLOGICAL TRADITIONS	Traditions in Indian sociology can be traced with the formal teaching of sociology as a subject in Bombay university way back in 1914. While the existence of a —Sociology in India and —Sociology of India have been largely debated in terms of whether it has been influenced by western philosophy, is there a need of indigenization etc., sociologist in India have primarily been engaged with issues of tradition and modernity, caste, tribe and gender. This paper primarily provides perspectives of key Indian sociologists on some of these issues.
		DSE-07: VISUAL CULTURE	This paper introduces the students to the construction of ‗seeing' as a social process. Through case studies covering various visual environments, the paper allows a scope to contextualize everyday visual culture within larger social debates around power, politics, identity and resistance
		DSE-08: READING ETHNOGRAPHIES	This course encourages the student to read ethnographic texts in their entirety. Any one set of texts from the four pairs are to be chosen. Readers are relatively free to interpret the texts within the parameters mentioned below. Suggested readings can be utilized to frame specific questions while reading the ethnographic texts and writing about them. The examination, however, will be patterned on the parameters

			mentioned in the outline.
		DSE-09: SOCIETIES IN NORTH EAST INDIA	The course aims at providing a sociological understanding of Societies in North East India. It seeks to provide a multi-dimensional understanding of North East India with respect to social, historical, political and economic dimensions. Further, this course aims to provide a sociological understanding of the specificity of world views of diverse communities along with the emerging socio economic processes of the region.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-01: INDIAN SOCIETY: IMAGES AND REALITIES**	This course seeks to provide an interdisciplinary introduction to Indian society.
		GE-02: FAMILY AND INTIMACY	Family is one of the vital institutions of human society. It is experienced intimately and debated keenly. This course attempts to introduce students to a range of contemporary concerns pertaining to this institution from a sociological perspective and with an interdisciplinary orientation.
		GE-03: RETHINKING DEVELOPMENT	This paper examines the ideas of development from a sociological perspective. It introduces students to different approaches to understanding development and traces the trajectory of Indian experience with development from an interdisciplinary perspective.
		GE-04: GENDER AND VIOLENCE	Gendered violence is routine and spectacular, structural as well as situated. This course attempts to provide an understanding of the logic of that violence, awareness of its most common forms and tries to equip the students with a sociologically
		GE-05: SOCIOLOGY OF SOCIAL MOVEMENTS	This course looks at social movements from a sociological perspective. It introduces the contexts and concepts of social movements and attempts to theoretically locate them through concrete case studies.
		GE-06: SOCIOLOGY OF EDUCATION	This course intends to familiarize the students with perspectives on the social meaning of education and the relationship between education and society. This includes issues of knowledge, comprehension, empowerment and contestation to sites and practices of education.
		GE-07: SOCIOLOGY OF MEDIA	The purpose of this paper is to introduce the students to certain major themes of outlining the interconnections between media and society. The focus specifically is on the transmission and reception of media content and thus the various sections in this paper study the production, control and reception of media and its representations.

		GE-08: POPULATION AND SOCIETY	Course Objective: This course provides a critical understanding of the interface between population and society. It analyses the role of fertility, morality and migration on the composition, size and structure of population. The course addresses the issue of domestic and international population movement and their economic, political and social implication.
B.A. SOCIOLOGY NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**DSC-01: INTRODUCTION TO SOCIOLOGY**	This course is a broad introduction to the discipline of sociology. It familiarizes the students with the history and some of the fundamental concepts and concerns of the discipline.
		DSC-02: SOCIOLOGY OF INDIA	This paper aims to provide an outline of the institutions and processes of Indian society. The central objective is to encourage students to view the Indian reality through a sociological lens.
		DSC-03: SOCIOLOGICAL THEORIES	The course introduces the students to the classical sociological thinkers, whose work has shaped the discipline of sociology.
		DSC-04: METHODS OF SOCIOLOGICAL ENQUIRY	The course is a general introduction to the methodologies of sociological research methods. It will provide the student with some elementary knowledge of the complexities and philosophical underpinnings of research.
	DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)	**DSE-01: RELIGION AND SOCIETY**	This course acquaints students with a sociological understanding of religion. It examines some forms of religion in India and its role in modern society.
		DSE-02: MARRIAGE, FAMILY AND KINSHIP	This course aims to highlight and critically examine contemporary concerns in the fields of marriage, family and kinship. It considers theoretical issues and ethnographies with particular emphasis on diversity of practices.
		DSE-03: SOCIAL STRATIFICATION	The course introduces the student to various ideas of Social inequality and their sociological study. The different forms and institutional manifestations of social stratification are explored here both theoretically and through case studies.
		DSE-04: GENDER AND SEXUALITY	This course aims to introduce students to a basic understanding of gender by interrogating the categories of gender, sex and sexuality. The complexity of gender relations in contemporary societies are further explored by looking in the areas of work and family.
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-01: POLITY AND SOCIETY IN INDIA**	This course seeks to introduce the students to the study of Indian politics from a sociological Perspective. In the process, it attempts to give the students theories, categories and conceptual tools to

			understand politics in relation to society in general.
		GE-02: ECONOMY AND SOCIETY	The course introduces the students to the complex ways in which economic activity is embedded in social relations form a sociological view point.
B.A./B.SC./B.COM. HONOURS (ALL)	**ABILITY ENHANCEMENT COMPULSORY COURSE**	**AECC 1: ENGLISH COMMUNICATION**	It is hoped that after studying this course, students will find a difference in their personal and professional interactions. The recommended readings given at the end are only suggestive; the students and teachers have the freedom to consult other materials on various units/topics given below. Similarly, the questions in the examination will be aimed towards assessing the skills learnt by the students rather than the textual content of the recommended books.
		AECC 2: ALTERNATIVE ENGLISH	After completing this course, learners will be in a position to understand and appreciate the value of the two sub-genres, prose and short stories. The former is non-fictional,and the latter is fictional in mode.They will be able to understand cultural practices of two different spatiality-theWest and the East. It will broaden their perspective to accommodate disparte ideologies that operate in different spaces on account of cultural differences.
		AECC 2: COMMUNICATIVE ASSAMESE	It is hoped that after studying this course, students will be able to improve their personal and professional interactions as well as their communication skills.
		AECC 2: COMMUNICATIVE BENGALI	It is hoped that after studying this course, students will be able to improve their personal and professional interactions as well as their communication skills.
		AECC 2: COMMUNICATIVE HINDI	It is hoped that after studying this course, students will be able to improve their personal and professional interactions as well as their communication skills.
B.A./B.SC./B.COM. HONOURS & NON-HONOURS (ALL)	**ABILITY ENHANCEMENT COMPULSORY COURSE**	**AECC 3: ENVIRONMENTAL SCIENCE**	It is hoped that after studying this course, students will be able to grasp the concept of environment structure and functioning, need of environment protection, global and local environmental problems, social issues associated with the environment.
B.A/B.COM. NON-HONOURS (ALL)	**ABILITY ENHANCEMENT COMPULSORY COURSE**	**AECC: MULTIDISCIPLINARY COURSE**	The primary objective of this course is to acquaint the students of the B.A. and B.Com. Programmes about the basic foundations of the expansion of various disciplines/ subjects, which will help them in preparing for acquiring lateral knowledge of the relevant disciplines after being graduated. In general, students of the B.A. and B.Com. Non-Honours Programmes need to study not more than two subjects

			of the multi-faceted disciplines to complete a bachelor's degree, although he/ she will require at least some basic ideas of different areas of knowledge in future. The proposed course endeavors to cover these areas with an inter-disciplinary approach.
B.A./B.SC. HONOURS & NON-HONOURS (ALL)	**GENERIC ELECTIVE (COMPUTER APPLICATION)**	**GE-1 : IT FUNDAMENTALS**	Learners will have the knowledge about logical organization of computers, user interface, database and networking, internet application, application in education and research. They wiil learn to operate Open Office/ MS Office tools using document preparation, spreadsheet handling packages and presentation software.
		GE-2 : MULTIMEDIA AND WEB DESIGN	Learners will have the knowledge about components, uses and application of multimedia. They will learn to create Open Office tools using presentation software, web design and development tools, image editing tools (Gimp) and animation tools such as Blender.
B.A./B.SC. HONOURS & NON-HONOURS (ALL)	**SKILL ENHANCEMENT COURSE**	**SEC-I & II:NATIONAL SERVICE SCHEME**	Learners will have the knowledge about NSS and its role in the fields of health, hygiene and sanitation so as to build a strong country. They will be able to use Yoga for healthy living. Learners will learn to appreciate the concerns regarding the environment. They will have the background information to start a venture. They will also be able to prepare a socio-economic development plan.
		SEC-I & II:VERMICOMPOST TECHNOLOGY	Learners will come to know in detail about vermiculture and vermicomposting techniques, earthworm species suitable for vermicomposting, role of earthworm in soil health and fertility, local earthworm species available, application and usefulness of vermicompost.
		SEC-I & II : ENTREPRENEURSHIP DEVELOPMENT	To enable the students to understand the concept of entrepreneurship and the supporting programmes launched by Govt. of India with special reference to N.E. India.
		SEC-I & II : RETAIL MANAGEMENT	To enable the students to understand the concept of retailing in business with special reference to India marketing systems.
		SEC-I & II: TOURISM & TRAVEL MANAGEMENT	To enable the students to understand the basic concepts of tourism, services associated with tourism, sustainable tourism, communication process in tourism.
		SEC-I & II: WEB DESIGN	On completion of the course, students will be able to 1. Develop and publish web sites 2. Resolve Code and troubleshoot HTML web pages, incorporating CSS, JavaScript and PHP

		SEC-I & II: LIBRARY & INFORMATION SCIENCE	It will enable the students – 1. To foster a basic understanding on academic library system and services. 2. To acquaint with the enormous resources available on various domain of knowledge. 3. To acquaint with the exponential growth of information & ensuring smoother access. 4. To enhance the information search skill and to make student efficient enough to identify qualitative information resources for study and research. 5. To enrich their credibility of library use 6. Ability enhancement in identifying and access the various sources of information. 7. Augmenting information literacy skill for access and application. 8. Ability to understand basics of library activities.
B.A./ B.COM. NON-HONOURS (ALL)	**DISCIPILNE SPECIFIC CORE COURSES (COMPULSORY COURSES)**	**DSC-1.1: WRITING SKILL-I (GENERAL ENGLISH)**	The course enhances the skills of reading, writing, speaking and listening. It encourages recognition and awareness of different genres like the short story, poetry, feature articles, etc. Topical and social themes form an integral part of the course The course teaches the students speaking and listening skills in class and tests these skills for a constant monitoring of their proficiency. The course broadens the horizons of the text by project work which is flexible, and enhances the creativity of the student. The course uses activities centred on translation for students, and gives them a composite view of multiculturalism. By the end of the two-semester course the learner should have sufficient vocabulary to read and understand narratives, write coherently, summarise and understand tape scripts/read-aloud, speak fluently and narrate at length with minimal errors in syntax.
		DSC-1.2: WRITING SKILL-II (COMMUNICATIVE ENGLISH)	
		DSC-1.3: HISTORY OF ASSAMESE LITERATURE (ASSAMESE M.I.L.-1)	স্নাতক সাধাৰণ পাঠ্যক্ৰমৰ ছাত্ৰ-ছাত্ৰীসকলক অসমীয়া সাহিত্যৰ আৰম্ভণিৰেপৰা ৰামধেনু যুগ পৰ্যন্ত বিভিন্ন যুগসমূহেৰে অসমীয়া সাহিত্যৰ বুৰঞ্জীৰ সাধাৰণ আভাস দাঙি ধৰাৰ উদ্দেশ্যেৰে এই কাকতখন প্ৰস্তুত কৰা হৈছে।
		DSC-1.4: SELECTION FROM ASSAMESE LITERATURE (ASSAMESE M.I.L.-2)	অসমীয়া ভাষাৰ প্ৰথম সাহিত্য চৰ্যাপদৰ পৰা ধৰি যুদ্ধোত্তৰ যুগলৈকে বিভিন্ন যুগত ৰচিত অসমীয়া সাহিত্যৰ নিৰ্বাচিত অংশ সন্নিবিষ্ট কৰি এই কাকতখনৰ যোগেদি ছাত্ৰ-ছাত্ৰীসকলক প্ৰতিনিধিত্বমূলকভাৱে অসমীয়া সাহিত্যৰ সামগ্ৰিক ৰূপৰ লগত চিনাকি কৰি দিবলৈ বিচৰা হৈছে।
		DSC-1.3: INTRODUCTION TO BENGALI LITERATURE (BENGALI M.I.L.-1)	Learners will have the knowledge about classics, drama, short stories and novels of Bengali literature.

		DSC-1.4: BENGALI SHORT STORIES & COMMERCIAL APPLIED LITERATURE (BENGALI M.I.L.-2)	Learners will have the knowledge about selected Bengali short stories, commercial terms and letters, reporting and essay writing techniques.
		DSC-1.3: HINDI LANGUAGE AND GRAMMAR (HINDI M.I.L.-1)	भाषा दो व्यक्तियों के बीच संप्रेषण की माध्यम है। भाषा के बिना मनुष्य गूंगा है। जीवित प्राणियों में एक मनुष्य ही ऐसा है जो अपनी भाषा को संरक्षित रखा है। मनुष्यों में भी अलग-अलग देशों, प्रदेशों और प्रदेशों में भी अलग-अलग क्षेत्रों की अपनी भाषा होती है। ऐसे परिस्थितियों में मनुष्य इशारों की सहायता से अपना काम चलाता है, लेकिन उसे भाषा की संज्ञा नहीं दी जा सकती है। इस पत्र में भाषा की विशेषताओं पर प्रकाश डाला गया है। व्यक्ति जब भाषा का प्रयोग करता है तो उसे कई प्रकार की कठिनाईयों का सामना करना पड़ता है, जैसे- उच्चारण की समस्या, लिंग निर्धारण की समस्या, वाक्यों के गठन, संप्रेषण। इसी बात को ध्यान में रखकर इसे पाठ्यक्रम में स्थान दिया गया है।
		DSC-1.4: HINDI LANGUAGE AND GRAMMAR (HINDI M.I.L.-2)	आधुनिक भारतीय भाषा के रूप में यह विषय पढ़ाया जाएगा। इस पत्र में भक्तिकालीन निर्गुण और सगुण दोनों धाराओं के कवियों को रखा गया है। कबीर अपने समय की सामाजिक बुराईयों पर प्रहार करने वाले कवि हैं, तो तुलसीदास मर्यादित और सांस्कारिक कवि के रूप में जाने जाते हैं। रसखान मुसलमान होकर भी कृष्ण की भक्ति में रंगे नजर आते हैं तो भूषण रीतिकाल में आदिकालीन प्रवृति को जिंदा रखने के लिए विख्यात हैं। निबंध और कहानी आधुनिक साहित्य की महत्वपूर्ण विधा है; जिससे छात्र अवगत होंगे। दृश्य काव्य के रूप में आधे-अधूरे नाटक को भी स्थान दिया गया है; जिसमें मध्यमवर्गीय मानसिकता को दर्शाया गया है। जहां व्यक्ति की पहचान परिवार नहीं प्रतिष्ठा और पैसा है। छात्र शहरीकरण से होने वाले नुकसान से भी परिचित होंगे। इसी बात को ध्यान में रखकर इस पत्र को पाठ्यक्रम में रखा गया है।
		DSC-1.3: ALTERNATIVE ENGLISH	This course is intended for those students who have opted for English, in lieu of MIL. The texts selected for study have been classified into three genre: poetry, prose and fiction. The objective of the course is to focus on issues that have contemporary relevance, especially pertaining to race, class, gender and environment.
		DSC-1.4: ALTERNATIVE ENGLISH	
B.SC. BOTANY HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**BC101T : MICROBIOLOGY AND PHYCOLOGY**	The objective of this course is to provide knowledge to the students on various forms of microbes and algae - their characteristics and economic importance.
		BC101P - PRACTICAL: MICROBIOLOGY AND PHYCOLOGY	The objective of this course is to provide practical knowledge and skill to the students to study various forms of microbes and algae - their characteristics and identification.
		BC102T: BIOMOLECULES AND CELL BIOLOGY	The objective of this course is to expose the students on molecular organisations life and also discusses cellular and molecular processes of life.
		BC102P - PRACTICAL: BIOMOLECULES AND CELL	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of qualitative tests of some

		BIOLOGY	biomolecules, cytology, some phenomena of plant physiology and cell division.
		BC203T : MYCOLOGY AND PHYTOPATHOLOGY	The objective of this course is to expose the students on the fungal world, different fungal diseases; their economic importances etc.
		BC203P - PRACTICAL: MYCOLOGY AND PHYTOPATHOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of studying the morphology and anatomy of some fungi, lichen and plant diseases.
		BC204T: ARCHEGONIATE	The objective of this course is to expose the students on Bryophyte, Gymnosperms and Fossil Plants
		BC204P - PRACTICAL: ARCHEGONIATE	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of studying the morphology and anatomy of some bryophytes, pteridophytes and gymnosperms.
		BC305T : ANATOMY OF ANGIOSPERMS	The objective of this course is to expose the students on the structural and anatomical organisations of plant tissues and their development
		BC305P - PRACTICAL: ANATOMY OF ANGIOSPERMS	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of studying structural and anatomical organisations of plant tissues.
		BC306T : ECONOMIC BOTANY	The objective of this course is to expose the students on various economically important plants and plant products
		BC306P - PRACTICAL: ECONOMIC BOTANY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of studying different aspects of economically important plants and their parts.
		BC307T CORE COURSE VII: GENETICS	The objective of this course is to impart knowledge of the principles of heredity and different mechanisms of inheritance to the students
		BC307P - PRACTICAL: GENETICS	The objective of this course is to provide practical knowledge and skill to the students to learn the basic techniques of studying different topics of genetics like Mendel's laws, pedigree analysis, chromosome mapping, blood typing, etc.
		BC408T : MOLECULAR BIOLOGY	The objective of this course is to impart knowledge of the molecular mechanisms involved in heredity.
		BC408P - PRACTICAL: MOLECULAR BIOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn the basic techniques of molecular biology.
		BC409T : PLANT ECOLOGY AND PHYTOGEOGRAPHY	The objective of this course is to impart knowledge of the basic as well as advanced concepts of plant ecology and plant geography.

		BC409P - PRACTICAL: PLANT ECOLOGY AND PHYTOGEOGRAPHY	The objective of this course is to provide practical knowledge and skill to the students to learn the basic techniques of ecological study like qualitative and quantitative parameters of soil and water along with application of some statistical methods for vegetation study.
		BC410T : PLANT SYSTEMATICS	The objective of this course is to expose the students on the diversity, classification, identification and nomenclature of plants and their evolution.
		BC410P - PRACTICAL: PLANT SYSTEMATICS	The objective of this course is to provide practical knowledge and skill to the students to learn the basic techniques of classification, identification and nomenclature of plants along with herbarium preparation.
		BC511T : REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	The objective of this course is to impart knowledge of the process of reproduction in angiosperms.
		BC511P - PRACTICAL: REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	The objective of this course is to provide practical knowledge and skill to the students to learn the basic techniques of studying the phenomena involved in reproduction.
		BC512T : PLANT PHYSIOLOGY	The objective of this course is to impart knowledge of the some important aspects of life processes plants.
		BC512P – PRACTICAL: PLANT PHYSIOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn the some techniques of studying the processes involved in some of the physiological activities of plants and factors affecting such activities.
		BC613T : PLANT METABOLISM	The objective of this course is to impart knowledge of the some important aspects of metabolic processes plants.
		BC613P - PRACTICAL: PLANT METABOLISM	The objective of this course is to provide practical knowledge and skill to the students to learn the some techniques of studying the factors controlling some metabolic processes.
		BC614T : PLANT BIOTECHNOLOGY	The objective of this course is to impart knowledge of the some important aspects of biotechnology including it's application.
	DISCIPLINE SPECIFIC ELECTIVE COURSES (ELECTIVE COURSES)	**BC614P - PRACTICAL: PLANT BIOTECHNOLOGY**	The objective of this course is to provide practical knowledge and skill to the students to learn the some basic techniques involved in plant biotechnology.
		BD501T : ANALYTICAL TECHNIQUES IN PLANT SCIENCES	The objective of this course is to impart knowledge of the some important and advanced techniques involved in plant science.
		BD501P - PRACTICAL: ANALYTICAL TECHNIQUES IN	The objective of this course is to provide practical knowledge and skill to the students to learn the some advanced analytical techniques

		PLANT SCIENCES	involved in plant science.
		BD502T : BIOINFORMATICS	The objective of this course is to impart knowledge of the some basic and advanced topics and tools of bioinformatics.
		BD502P - PRACTICAL: BIOINFORMATICS	The objective of this course is to provide practical knowledge and skill to the students to learn tools used in bioinformatics.
		BD503T : RESEARCH METHODOLOGY	The objective of this course is to impart knowledge regarding the basic concepts of research techniques and its presentation techniques.
		BD503P - PRACTICAL: RESEARCH METHODOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn techniques of experimentation, poster presentation and technical writing of research topics.
		BD504T : INDUSTRIAL AND ENVIRONMENTAL MICROBIOLOGY	The objective of this course is to impart knowledge about the application of microbes in industrial production of different commodities, environment protection, agriculture and remediation processes
		BD504P - PRACTICAL: INDUSTRIAL AND ENVIRONMENTAL MICROBIOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn the principles and functioning of instruments in microbiology laboratory along with sterilization techniques and media preparation.
		BD605T : PLANT BREEDING	The objective of this course is to impart knowledge about the breeding of economically important plant species for crop improvement.
		BD605P - PRACTICAL: PLANT BREEDING	The objective of this course is to provide practical knowledge and skill to the students to learn the hybridization techniques, to examine pollen morphology and seed samples.
		BD606T : NATURAL RESOURCE MANAGEMENT	The objective of this course is to impart knowledge about the management of natural resources through sustainable utilization.
		BD606P - PRACTICAL: NATURAL RESOURCE MANAGEMENT	The objective of this course is to provide practical knowledge and skill to the students to learn the ecological modeling, calculation and analysis of ecological footprints, etc.
		BD607T : HORTICULTURAL PRACTICES AND POST-HARVEST TECHNOLOGY	The objective of this course is to impart knowledge about the scope and importance of horticulture and its role in rural economy and employment generation, horticultural plants and crops, techniques of horticulture, landscaping and disease management.
		BD607P -PRACTICAL: HORTICULTURAL PRACTICES AND POST-HARVEST TECHNOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn about the use of horticultural tools, techniques, preparation of organic manure, application of fertilizers and growth regulators, harvesting and storage techniques.
		BD608T : BIOSTATISTICS	The objective of this course is to impart knowledge about the

			application of statistics in different biological studies.
		BD608P - PRACTICAL: BIOSTATISTICS	The objective of this course is to provide practical knowledge and skill to the students to learn about the application of statistics in different biological studies.
		BD609: DISSERTATION (PROJECT WORK)	The objective of this course is to develop the written and verbal communication. To present information in a clear an effective manner, to write report in a scientific style and to solve scientific problems. Students will gain an understanding of: --- i. Communication effectively, verbally and written for the purpose of conveying biological information to both professional scientist and to the public. ii. Availability of instrument for conducting specific, scientific research
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-IT: BIODIVERSITY (MICROBES, ALGAE, FUNGI, LICHEN AND ARCHEGONIATE)**	The objective of this course is to impart knowledge about the different groups of plants and microorganisms.
		GE-IP: BIODIVERSITY (MICROBES, ALGAE, FUNGI, LICHEN AND ARCHEGONIATE)	The objective of this course is to provide practical knowledge and skill to the students to study about the vegetative and reproductive structures of microbes and different plant groups.
		GE-IIT: PLANT ECOLOGY AND TAXONOMY	The objective of this course is to impart knowledge about the basic concepts of palnt ecology and plant taxonomy.
		GE-IIP: PLANT ECOLOGY AND TAXONOMY	The objective of this course is to provide practical knowledge and skill to the students to learn the procedure of using some instruments of ecological studies and methods of taxonomic studies.
		GE-IIIT: PLANT ANATOMY AND EMBRYOLOGY	The objective of this course is to impart knowledge about the structures of tissues and reproductive structures of angiosperms.
		GE-IIIP: PLANT ANATOMY AND EMBRYOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of studying tissues and reproductive structures.
		GE-IVT: PLANT PHYSIOLOGY AND METABOLISM	The objective of this course is to impart knowledge about the life processes and metabolic processes of plants.
		GE-IVP: PLANT PHYSIOLOGY AND METABOLISM	The objective of this course is to provide practical knowledge and skill to the students to learn techniques of studying physiological and metabolic processes in plants.
		GE-VT: ECONOMIC BOTANY AND PLANT	The objective of this course is to impart knowledge about the economically important plant species and some basic concepts of

		BIOTECHNOLOGY	biotechnology.
		GE-VP: ECONOMIC BOTANY AND PLANT BIOTECHNOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn basic techniques of tissue culture, microchemical tests of produces of some economically important plants, PCR, PAGE, AGE.
		GE-VIT. ENVIRONMENTAL BIOTECHNOLOGY	The objective of this course is to impart knowledge about the global environmental problems and their remedies, sustainable development and international and national legislations and policies for environmental protection.
		GE-VIP. ENVIRONMENTAL BIOTECHNOLOGY	The objective of this course is to provide practical knowledge and skill to the students to learn about the techniques of analysis of certain parameters of soil and water, gravimetric analysis of effluents, microbial assessment of air and water.
B.SC. CHEMISTRY HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C-101:INORGANIC CHEMISTRY, ATOMIC STRUCTURE AND CHEMICAL BONDING**	To develop the basic knowledge of chemistry in relation to atomic structure, bonding, periodicity etc. Students will gain an understanding of i. Sign of wave function, counter boundary and probability diagrams etc. ii. Variations of orbital energy with atomic number. iii. Properties of elements, atomic radii, ionic radii, size effect of ionic bond, salvation energy, covalent character of ionic bond, redox equations, principle involved in volumetric analysis etc.
		C-101- PRACT.:INORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of titrametric analysis, acid-base titrations and redox titrimetry.
		C-102: PHYSICAL CHEMISTRY, STATES OF MATTER AND IONIC EQUILIBRIUM	Objective of the Course is to emphasize on different states of matter & their mechanical treatment. Students will gain an understanding of i. Kinetic molecular model of a gas, behaviour of real gases etc ii. Effect of addition of various solute on surface tension and viscosity. Cleansing action of detergents. iii. Nature of solid state, elementary idea of symmetry. iv. Idea of solubility and solubility product of sparingly soluble salts.
		C-102-PRACT.: PHYSICAL CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of surface tension and viscosity measurements and pH-metry techniques.
		C-201: ORGANIC	Objective of the Course is to develop preliminary knowledge in basic

		CHEMISTRY, HYDROCARBONS AND STEREOCHEMISTRY	organic chemistry, Hydrocarbons, stereochemistry & conformational analysis. Students will gain an understanding of --- i. Knowledge of basic organic chemistry, definition, classification of stereoisomerism, optical activity, absolute and relative configuration etc. ii. Knowledge of elimination reaction, electrophilic and nucleophilic addition. iii. Relative stability of cyclic hydrocarbon, Bayer's strain theory etc.
		C-201-PRACT: ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of purification of organic compounds by crystallization, determination of melting points of unknown organic compounds, effect of impurities on melting point, separation of organic compound mixtures by paper chromatography and TLC.
		C-202: PHYSICAL CHEMISTRY, CHEMICAL THERMODYNAMICS AND ITS APPLICATIONS	Objective of the Course is to develop a strong knowledge on chemical thermodynamics, their mathematical expression & application. Students will gain an understanding of i. The application of mathematical tools to calculate thermodynamic properties ii. The concept of free energy change and spontaneity. iii. Thermodynamics derivation of relation between Gibbs free energy of reaction and reaction quotient. iv. Derive relation between the four colligative properties using chemical potential (Thermodynamics derivation)
		C-202-PRACT: PHYSICAL CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of certain experiments of thermochemistry like determination of heat capacity of calorimeter, enthalpy of neutralization, enthalpy of ionization, enthalpy of solution, enthalpy of hydration, etc.
		C-301: INORGANIC CHEMISTRY, S- & P-BLOCK ELEMENTS AND METALLURGY	Objective of the Course is to make the student familiar with the chemistry of s, p block elements, noble gases, inorganic polymers & metallurgy. Students will gain an understanding of --- i. Predict the purification of metal, study of compounds with emphasis on structure, bonding, preparation and properties. ii. Real world applications, shapes etc of noble gas. iii. Structural aspects and applications of inorganic polymer

		C-301-PRACT: INORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of iodometric titrations, iorganic preparations of cuprous chloride, potash alum, manganese(III) phosphate.
		C-302: ORGANIC CHEMISTRY HALOGEN & OXYGEN CONTAINING FUNCTIONAL GROUPS	Objective of the Course is to develop preliminary knowledge on the synthesis, properties of organic compounds of Halogen & oxygen containing Functional groups. Students will gain an understanding of --- i. The prediction of mechanism for organic reactions ii. How to design synthesis of organic molecule. iii. The reactivity and stability of organic molecule based on structure iv. An idea of alcohols, phenols, carbonyl compounds, acids and their derivatives, etc
		C-302-PRACT: ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of functional group tests for alcohol, carbonyl and carboxylic groups, organic preparation involving acetylation, benzolyation, oxidation, nitration, reduction, hydrolysis, aldol condensation of certain organic compounds,
		C-303: PHYSICAL CHEMISTRY , PHASE EQUILIBRIA AND CHEMICAL KINETICS	Objective of the Course is to acquaint students in details on phase equilibria, chemical kinetics, catalysis and surface chemistry. Students will gain an understanding of --- i. Types of catalysis, Michaelis – Menten mechanism, mechanism of catalysed reaction at solid state. ii. Steady - state approximation in reaction mechanism. iii. Concept of phases, phase diagrams for systems of solid- liquid equilibria involving eutectic, congruent and incongruent mp, solid solution etc
		C-303-PRACT: PHYSICAL CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of determination of critical solution temperature and composition of the phenol-water system and to study the effect of impurities on it, distribution of acetic/ benzoic acid between water and cyclohexane, study of kinetics of certain reactions, verification of the Freundlich and Langmuir isotherms for adsorption of acetic acid/oxalic acid on activated charcoal.
		C-401: INORGANIC CHEMISTRY, COORDINATION CHEMISTRY	Objective of the Course is to develop a vivid knowledge on coordination chemistry and its application extended to biological system.

		AND ITS APPLICATIONS	Students will gain an understanding of --- i. Predicting metal ion present in biological systems ii. Use of chelating agents in medicine. iii. Quantitative aspect of ligand field and MO theory, stability of various oxidation states and emf of transition elements
		C-401-PRACT: INORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of gravimetric analysis for estimation of nickel(ii) using Dimethylglyoxime, copper as CuSCN, iron as Fe2O3 by precipitating iron as Fe(OH)3, Inorganic Preparation of Tetraamminecopper(II) sulphate, ii. Tetraamminecarbonatocobalt(III) ion, Potassium tris(oxalate)ferrate(III), Paper chromatographic separation of metal ions, viz. i. Ni(II) and Co(II) ii. Fe(III) and Al(III)
		C-402: ORGANIC CHEMISTRY, HETEROCYCLIC CHEMISTRY	Objective of the Course is to develop the knowledge on the preparation and properties of different classes nitrogen containing compounds. Emphasis is given to heterocyclic compounds of both synthetic and natural origin . Students will gain an understanding of i. Reaction for preparation of Heterocyclic compounds, polynuclear hydrocarbons ii. Reaction and mechanism of substitution in heterocyclic compounds. iii. Methods of structure elucidation of terpenoids
		C-402-PRACT: ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of detection of elements (N, S and Halogens), functional group test for nitro, amine and amide group, qualitative analysis of unknown organic compounds (alcohols, carboxylic acids, phenols and carbonyl compounds).
		C-403: PHYSICAL CHEMISTRY, ELECTROCHEMISTRY	The objective of this course is to develop the basic knowledge on electrochemistry, various laws governing electro chemical process and their application. Students will gain an understanding of --- i. Quantitative aspects of Faraday's laws of electrolysis ii. Application of conductance measurement iii. Electrical and magnetic properties of atoms and molecules
		C-403-PRACT: PHYSICAL CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of selected experiments of

			conductometry and potentiometry.
		C-501: ORGANIC CHEMISTRY, BIOMOLECULES	The objective of this course is to acquire knowledge in organic synthesis, retro synthesis, and to understand biochemistry. Students will gain an understanding of --- i. The chemical basis for biological phenomena and cellular structure. ii. The chemical properties of amino acids co factors and sugar. iii. Enzyme kinetics, chemical logic of metabolism iv. Health, disease and modern medicine are all rooted in biological chemistry.
		C-501-PRACT: ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of estimation of glycine by Sorenson's formalin method, study of the titration curve of glycine. estimation of proteins by Lowry's method, study of the action of salivary amylase on starch at optimum conditions, effect of temperature on the action of salivary amylase, saponification value of an oil or a fat, determination of Iodine number of an oil/ fat, isolation and characterization of DNA from onion/ cauliflower/peas.
		C-502: PHYSICAL CHEMISTRY, QUANTUM CHEMISTRY AND SPECTROSCOPY	The objective of this course is to make the students familiar with the various aspects of photo chemistry and quantum chemistry. Students will gain an understanding of i. The difference between classical and quantum mechanics ii. Qualitative treatment of hydrogen atom and hydrogen like ions. iii. How to interpret spectra iv. Role of photochemical reaction in biochemical processes
		C-502-PRACT: PHYSICAL CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the applications of UV/Visible spectroscopy in the study of absorption spectra of certain compounds, application of colorimetry in determining concentration of certain compounds.
		C-601: INORGANIC CHEMISTRY, ORGANOMETALLIC CHEMISTRY	The objective of this course is to make familiar with various aspects of knowledge on organometalic chemistry, its application and Inorganic Reaction Mechanism. Students will gain an understanding of i. Basic principles involved in analysis of anions, cations solubility product, common ion effect etc ii. Inorganic reaction mechanism iii. Use of Wilkinson's catalyst in industrial process of hydrozenation of alkene, gas synthesis by metel carbonyl iv. Hapacity of organic ligands, 18 electron rule, Zeise's salt etc.

		C-601-PRACT: INORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of qualitative inorganic analysis of mixtures containing 2 anions and 3 cations containing one interfering anion, or insoluble component.
		C-602: ORGANIC CHEMISTRY, SPECTROSCOPY, DYES AND POLYMERS	The objective of this course is to acquaint students on application of Spectroscopy (UV – visible, IR and NMR), carbohydrates, dyes and polymers. Students will gain an understanding of : i. Application of UV, IR, NMR spectroscopy, mass spectra in organic molecules ii. Biological importance of carbohydrates iii. Biodegradable polymer, colour and constitution of dyes and applications of different dyes.
		C-602-PRACT: ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn the techniques of qualitative analysis of unknown organic compounds containing monofunctional groups (carbohydrates, aryl halides, aromatic hydrocarbons, nitro compounds, amines and amides) and simple bifunctional groups, for e.g. salicylic acid, cinnamic acid, nitrophenols etc., extraction of caffeine from tea leaves, analysis of Carbohydrate: aldoses and ketoses, reducing and non-reducing sugars, identification of simple organic compounds by IR spectroscopy and NMR Spectroscopy (Spectra to be provided).
	DISCIPLINE SPECIFIC ELECTIVE COURSES (ELECTIVE COURSES)	**DSE-501: ANALYTICAL METHODS IN CHEMISTRY**	The objective of this course is to develop a strong knowledge on spectroscopy, qualitative and quantitative aspects of analysis and thermal analysis. Students will gain an understanding of i. The principles and applications of modern chemical instrumentation, experimental design and data analysis. ii. The composition of written laboratory reports that summarize experimental procedures and the accurately present and interprete data iii. Qualitative and quantitave aspect of solvent extraction, chromatographic method of analysis -TLC & HPLC
		DSE-501-PRACT., ANALYTICAL METHODS IN CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn some of the analytical techniques like Paper chromatographic separation of Fe3+, Al3+, Cr3+, Ag+, Hg22+, and Pb2+, Separation and identification of the monosaccharides present in the given mixture (glucose & fructose) by paper chromatography,

			Separate a mixture of Sudan yellow and Sudan Red by TLC technique and identify them on the basis of their Rf values, Chromatographic separation of the active ingredients of plants, flowers and juices by TLC, etc.
		DSE-502: GREEN CHEMISTRY	The objective of this course is to develop the basis knowledge of green chemistry and its future trends. Students will gain an understanding of i. concept of green chemistry ii. Use of safer chemicals iii. Concept of atom economy iv. Use of green solvent v. Use of green chemistry in our day to day life
		DSE-502-PRACT., GREEN CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn some of the analytical techniques like use of safer starting materials (The Vitamin C clock reaction using Vitamin C tablets, tincture of iodine, hydrogen peroxide and liquid laundry starch – study of effect of concentration on clock reaction), Using Renewable Resources (Preparation of biodiesel from vegetable oil), Principle of atom economy. Green Reactions (Reaction between furan and maleic acid in water and at room temperature rather than in benzene and reflux. Solvent free, microwave assisted one pot synthesis of phthalocyanine complex of copper(II). Photoreduction of benzophenone to benzopinacol in the presence of sunlight.)
		DSE-503: RESEARCH METHODOLOGY FOR CHEMISTRY	The objective of this course is to demonstrate a familiarity with literature survey methods of scientific research, chemical safety and ethical handling of chemicals and data analysis. Students will gain an understanding of i. Literature survey ii. Writing scientific paper iii. Chemical safety and ethical handling of chemicals iv. Statistical methods of data analysis, hypothesis testing etc
		DSE-504: ELEMENTARY COMPUTATIONAL CHEMISTRY	The objective of this course is to demonstrate an advanced understanding of computational chemistry. Students will gain an understanding of a) Model of computer, BASIC,FORTAN, role of computers in chemistry b) writing simple programs in BASIC language c) molecular modelling

		DSE-601: INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	The objective of this course is to learn about fertilizers, surface coating, silicate industries, batteries etc. Students will gain an understanding of i. Properties and the types of different glasses, ceramics and cements ii. Different types and manufacture of fertilizers, composition of paint pigments. iii. Working principle of different batteries, elements present in alloys, different types of steel etc.
		DSE-601-PRACT: INORGANIC MATERIALS OF INDUSTRIAL IMPORTANCE	The objective of this course is to provide practical knowledge and skill to the students to learn a. Determination of free acidity in ammonium sulphate fertilizer. b. Estimation of Calcium in Calcium ammonium nitrate fertilizer. c. Estimation of phosphoric acid in superphosphate fertilizer. d. Electroless metallic coatings on ceramic and plastic material. e. Determination of composition of dolomite (by complexometric titration). f. Analysis of (Cu, Ni); (Cu, Zn) in alloy or synthetic samples. g. Analysis of Cement. h. Preparation of pigment (zinc oxide).
		DSE-602: INDUSTRIAL CHEMICALS &ENVIRONMENT	The objective of this course is to impart knowledge about nuclear pollution, ecosystem, handling of industrial gases, semi conductor technology etc. Students will gain an understanding of i. Stored and handle different types of industrial gases and chemicals ii. Semiconductor technology iii. The effect of hazardous chemicals, purification method of water and industrial waste management.
		DSE-602-PRACT: INDUSTRIAL CHEMICALS &ENVIRONMENT	The objective of this course is to provide practical knowledge and skill to the students to learn i) Determination of dissolved oxygen in water. ii) Determination of Chemical Oxygen Demand (COD) iii)Determination of Biological Oxygen Demand (BOD) iv) Percentage of available chlorine in bleaching powder. v)Estimation of total alkalinity of water samples (CO_3^{-2}, HCO_3^-) using double titration method. vi) Measurement of dissolved CO_2
		DSE-603: DISSERTATION (PROJECT WORK)	The objective of this course is to develop the written and verbal communication. To present information in a clear an effective manner,

			to write report in a scientific style and to solve scientific problems. Students will gain an understanding of: --- i. Communication effectively, verbally and written for the purpose of conveying chemical information to both professional scientist and to the public. ii. Availability of instrument for conducting specific, scientific research
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-101: ATOMIC STRUCTURE, BONDING,GENERAL ORGANIC CHEMISTRY AND ALIPHATIC HYDROCARBONS**	The objective of this course is to impart knowledge about some basic concepts of inorganic chemistry like atomic structure with special reference to quantum mechanics, chemical bonding and molecular structure; some fundamental concepts of organic chemistry, stereochemistry and aliphatic hydrocarbons.
		GE-101-PRACT: INORGANIC AND ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn i. Estimation of Fe (II) ions by titrating it with K2Cr2O7 using internal indicator. ii. Estimation of oxalic acid by titrating it with KMnO4. iii. Estimation of water of crystallization in Mohr's salt by titrating with KMnO4. iv. Estimation of Fe (II) ions by titrating it with KMnO4. v. Estimation of Cu (II) ions iodometrically using Na2S2O3. vi. Detection of characterized element (N, S, Cl, Br, I) in an organic compound. vii. Separation of mixtures by Chromatography.
		GE-201: CHEMICAL ENERGETICS, EQUILIBRIA AND FUNCTIONAL ORGANIC CHEMISTRY	The objective of this course is to impart knowledge about some basic concepts of chemical energetics including the laws of thermodynamics and standard enthalpies; chemical and ionic equilibrium; preparation and reactions of some aromatic hydrocarbons, alkyl and aryl halides, alcohols, phenols and ethers.
		GE-201-PRACT.: PHYSICAL AND ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn about some experiments of thermochemistry and ionic equilibrium like determination of heat capacity, enthalpy of neutralization, ionization, solution, hydration, measurement of pH, preparation of buffer solutions; purification of organic compounds by crystallization, etc.
		GE-301: SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE, ELECTROCHEMISTRY AND	The objective of this course is to impart knowledge about some basic concepts of solutions, phase equilibrium, conductance, electrochemistry, organic compounds like carboxylic acids and their derivatives, amines and diazonium salts, carbohydrates, amino acids,

		FUNCTIONAL GROUP ORGANIC CHEMISTRY-II	peptides and proteins.
		GE-301-PRACT.: PHYSICAL AND ORGANIC CHEMISTRY	The objective of this course is to provide practical knowledge and skill to the students to learn about Phase Equilibria and conductance i. Construction of the phase diagram of a binary system (simple eutectic) using cooling curves. ii. Determination of the critical solution temperature and composition of the phenol water system and study of the effect of impurities on it. iii. Study of the variation of mutual solubility temperature with concentration for the phenol water system and determination of the critical solubility temperature. iv. Determination of cell constant v. Perform the following conductometric titrations: a. Strong acid vs. strong base or, b. Weak acid vs. strong base Organic Chemistry: Systematic Qualitative Organic Analysis of Organic Compounds possessing mono-functional groups (-COOH, phenolic, aldehydic, ketonic, amide, nitro, amines) and preparation of one derivative.
		GE-401: *TRANSITION METALS, COORDINATION CHEMISTRY, STATES OF MATTER AND CHEMICAL KINETICS*	The objective of this course is to impart knowledge about some basic concepts of 3d transition series elements, lanthanoids and actinoids, VB and Crystal field theory under coordination chemistry, kinetic theory of gases, physical properties of liquids and solids including crystallography, concepts of chemical kinetics.
		GE-401-PRACT.: *INORGANIC AND PHYSICAL CHEMISTRY*	The objective of this course is to provide practical knowledge and skill to the students to learn about Inorganic Chemistry: A. Semi-micro qualitative analysis using H2S of mixtures- not more than four ionic species (two anions and two cations and excluding insoluble salts) Physical Chemistry: I. Surface tension measurement (use of organic solvents excluded). Determination of the surface tension of a liquid or a dilute solution using a stalagmometer. II. Viscosity measurement (use of organic solvents excluded). Determination of the relative and absolute viscosity of a liquid or

			dilute solution using an Ostwald's viscometer.
B.SC. MATHEMATICS HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C1.1: CALCULUS**	After going through this course the students will be able to • Apply Calculus in real life problems • Formulate mathematical models
		C1.2: ALGEBRA	After going through this course the students will be able to • Describe various algebraic structures on sets • Identify the algebraic structures present in different branches of Sciences
		C2.1: REAL ANALYSIS	After going through this course the students will be able to • Identify the properties of the number system. • Describe various analytical properties of the real number system.
		C2.2: DIFFERENTIAL EQUATIONS	After going through this course the students will be able to • Use the techniques to solve differential equations. • Apply these techniques in various mathematical models used in real life problems.
		C3.1: THEORY OF REAL FUNCTIONS	After going through this course the students will be able to • Discuss limit, continuity and differentiability of real valued functions • Expand functions in series and different form of remainders
		C3.2: GROUP THEORY I	After going through this course the students will be able to • Describe various group structures on sets. • Indentify the group structures present in different branches of sciences.
		C3.3: PDE AND SYSTEMS OF ODE	After going through this course the students will be able to • make mathematical formulations and their solutions of various physical problems; • design mathematical models used in heat, wave. • Describe the Laplace equation and their solutions.
		C4.1: NUMERICAL METHODS	After going through this course the students will be able to • Discuss various numerical methods and interpolation ormulae • Apply numerical techniques for solving differential equation.
		C4.2: RIEMANN INTEGRATION AND SERIES OF FUNCTIONS	After going through this course the students will be able to • Riemann integration, improperintegrals • Differentiation and integration of powerseries
		C4.3: RING THEORY AND LINEAR ALGEBRA I	After going through this course the students will be able to • Describe various ring structures on sets. • Solve the system of linear equations.
		C5.1: MULTIVARIATE	After going through this course the students will be able to

		CALCULUS	• Extend the concepts from one variable calculus to function of several variables • Demonstrate the ability to think critically and solving application of real world problems involving double/triple integrals.
		C5.2: GROUP THEORY II	After going through this course the students will be able to • Apply results from preliminary concepts to solve contemporary problems. • Apply in communication theory, electrical engineering, computer science and cryptography
		C6.1: METRIC SPACES AND COMPLEX ANALYSIS	After going through this course the students will be able to describe • various properties of metrics paces • complex number system, its differentiation and integration.
		C6.2: RING THEORY AND LINEAR ALGEBRA II	Students will be able to • Apply theorems proof/ solution techniques to solve real world problems • Find the matrix associated with a linear transformation w.r.t. given bases and can understand the relationship between operations of linear transformations and corresponding matrices.
	DISCIPLINE SPECIFIC ELECTIVE COURSES (ELECTIVE COURSES)	**DSE1.1: ANALYTICAL GEOMETRY**	After going through this course the students will be able to • Sketch parabola, ellipse and hyperbola • Solve various geometrical problems analytically.
		DSE1.2: PORTFOLIO OPTIMIZATION	After going through this course the students will be able to define portfolio optimization and apply them to real world problems
		DSE1.3: FINANCIAL MATHEMATICS	After going through this course the students will be able to • Build quantitative models of financial mathematics/industries • Apply models to obtain information of practical value in the financial mathematics
		DSE2.1: MATHEMATICAL MODELING	After going through this course the students will be able to solve differential equations and linear programming problems used in mathematical modelling
		DSE2.2: MECHANICS	After going through this course the students will be able to • Describe Moment of a force and couple, general equation of equilibrium • Solve Problems of translation and rotation of rigid bodies
		DSE2.3: NUMBER THEORY	After going through this course the students will be able to • obtain solutions of Diophantine equations • define number theoretic functions

		DSE2.4: BIO-MATHEMATICS	After going through this course the students will be able to discuss various models and techniques to study Bio-mathematical real life problems.
		DSE2.5: INDUSTRIAL MATHEMATICS	After going through this course the students will be able to • Use various type of numerical methods to model problems and use simulation to solve problem • Apply different methods to solve financial problems
		DSE 3.1: HYDRO-MECHANICS	After going through this course the students will be able to describe the basic properties of Fluid Mechanics.
		DSE3.2: LINEAR PROGRAMMING	After going through this course the students will be able to • describe various optimization techniques pertaining to linear programming. • apply linear programming to problems arising out of real life problems.
		DSE 3.3: DISCRETE MATHEMATICS	After going through this course, the students should be able to • Explain various discrete structures. • Design graph theoretic models of real life problems.
		DSE3.4: THEORY OF EQUATIONS	After going through this course the students will be able to discuss various properties of algebraic equations, symmetric properties of roots and determination of roots.
		DSE 3.5: DYNAMICAL SYSTEMS	After going through this course the students will be able to • Discuss the qualitative properties of difference/differential equations.
		DSE 4.1: MATHEMATICAL METHODS	After going through this course the students will be able to • Construct mathematical models or real world problems. • Solve real world problems through the studied theories.
		DSE 4.2: BOOLEAN ALGEBRA AND AUTOMATA THEORY	After going through this course the students will be able to • Define a lattice • identify various lattice properties and apply them to describe switching circuits.
		DSE4.3: PROBABILITY AND STATISTICS	After going through this course the students will be able to • Characterize the statistical techniques. • Define various statistical distributions and obtain their related properties • Describe the mathematical theory of probability
		DSE 4.4: DIFFERENTIAL GEOMETRY	After going through this course the students will be able to • Describe various properties of space curves, surfaces and Geodesics

			• Discuss the properties of algebra and calculus of tensors.
		DSE 4.5: DISSERTATION (PROJECT WORK)	The objective of this course is to develop the written and verbal communication. To present information in a clear an effective manner, to write report in a scientific style and to solve scientific problems. Students will gain an understanding of: --- i. Communication effectively, verbally and written for the purpose of conveying mathematical information to both professional scientist and to the public. ii. Availability of instrument for conducting specific, scientific research
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-1.1: DIFFERENTIAL CALCULUS**	Students will be able to • differentiate functions • find tangent normal, curvature, asymptotes etc.
		GE-1.2: OBJECT ORIENTED PROGRAMMING IN C++	After going through this course the students will be able to • Write C-programmes to solve Mathematical problems. • Design algorithms to solve problems.
		GE-1.3: FINITE ELEMENT METHODS	Students will be able to • Describe finite element methods • Differential equations using finite element methods
		GE-2.1: DIFFERENTIAL EQUATION	Students will be able to describe various methods for solving differential equations.
		GE-2.2: ECONOMETRICS	After going through this course the students should be able to design models and solve problems related to Economic issues.
		GE-3.1: REAL ANALYSIS	After going through this course the students will be able to • Analyse the properties of the number line • Describe various analytical properties of the real number system
		GE3.2: CRYPTOGRAPHY AND NETWORK SECURITY	After going through this course the students will be able to • Discuss the principles of Cryptography • Explain various ways of attacks in complex networks. • Explain the structure and organization of the complex etwork.
		GE 3.3: INFORMATION SECURITY	After going through this course the students will be able to • Describe security issues and data integrity
		GE-4.1: ALGEBRA	After going through this course the students will be able to • Describe various algebraic structures onsets • Identify the algebraic structures present in different branches ofSciences
		GE-4.2: APPLICATIONS OF ALGEBRA	After going through this course students will be able to • Explain various algebraic structure

			• Solve system of linear equations.
		GE4.3: COMBINATORIAL MATHEMATICS	After going through this course students will be able to • Use combinatorial approach in solving algebraic problems • Explain counting principles.
B.SC. PHYSICS HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C-I: MATHEMATICAL PHYSICS – I**	At the completion of this course, a student will be able to 1. Write a problem in Physics in the language of Mathematics. 2. Identify a range of diverse mathematical techniques to formulate and solve a problem in basic Physics. 3. Analyze some of the basic mathematical concepts and methods. 4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of elementary branches of Physics like mechanics, electromagnetic theory, statistical Physics, thermal Physics etc. 5. Learn computer programming and numerical analysis and know its role in solving problems in Physics. 6. Construct a problem in Physics computationally.
		C I: MATHEMATICAL PHYSICS-I (LAB)	The objective of this course is to provide practical knowledge and skill to the students to learn about Basics of scientific computing, Errors and error Analysis, Review of C & C++ Programming Fundamentals, Programs, Random number generation, Solution of algebraic and transcendental equation by Bisection, Newton Raphson and Secant methods, Interpolation by Newton Gregory Forward and Backward difference formula, Error estimation of linear interpolation, Numerical differentiation (Forward and backward interpolation formula) and Integration (Trapezoidal and Simpson rules), Monte Carlo method, Solution of Ordinary Differential Equations (ODE), First order Differential equation Euler, modified Euler and Runge-Kutta (RK) second and fourth order methods.
		C- II: MECHANICS	At the completion of this course, a student will be able to 1. Understand the basic concepts and ideas in mechanics- e.g. motion, force and torque, mass and moment of inertia, linear and angular momentum, kinetic energy and potential energy etc. by parallel studies of linear dynamics and rotational dynamics. 2. Understand the basic conservation laws by studying them in various mechanical systems including collisions, oscillations, gravitational systems etc.

			3. Analyze simple harmonic oscillator in detail 4. Study planetary motions as a central force problem. 5. Understand the concept of frame of reference, importance of relative transformations and invariance of laws of Physics. 6. Realize the consequences of non-inertial frame in our real physical world. 7. Know about the peculiar phenomena of special relativity which are not seen in Newtonian relativity and to understand the concept of space-time.
		C II: MECHANICS (LAB)	This course will 1. Introduce the students to the basic concepts of mechanics. 2. Enable the students to understand conservation laws as they are the fundamental laws of nature and will help them in realizing a crucial phenomenon of nature- symmetry. 3. Enable the students to understand simple harmonic oscillator as it is a unique mechanical problem and will help them to understand the advanced treatment in quantum mechanics and modern Physics. 4. Develop knowledge of special relativity to understand relativistic formulation of modern theories. 5. Develop knowledge of mechanics which will help students in their everyday life.
		C III : ELECTRICITY AND MAGNETISM	At the completion of this course, a student will be able to : 1. Gain basic knowledge of electricity and magnetism. 2. Understand the electrical and magnetic properties of matter in brief. 3. Understand the effect of electric field on magnetic field and the effect of magnetic field on current. 4. Understand the basic principle of the electrical circuit (AC) circuit and electrical networking. 5. Acquire the basic theoretical as well as experimental skill on electrical networking.
		C III : ELECTRICITY AND MAGNETISM (LAB)	This course will : 1. Develop the basic theoretical knowledge as well as experimental skills of the students on electrical networking. 2. Train the students to handle and repair instruments based on electric and magnetic field effects.
		C IV : WAVES AND OPTICS	At the completion of this course, a student will be able to 1. Learn the basics of wave motion.

			2. Know about the behavior of light due to its wave nature. 3. Identify and understand different phenomena due to the interaction of light with light and matter. 4. Analyze some of the fundamental laws and principles of light which is used in many important optical instruments.
		C IV: WAVES AND OPTICS (LAB)	This course will 1. Enable the students to analyze different phenomena due to the interaction of light with light and matter. 2. Train the students to use different optical instruments. 3. Help the students to understand various natural phenomena using different apparatus in the laboratory.
		C-V : MATHEMATICAL PHYSICS – II	At the completion of this course, a student will be able to 1. Write a problem in Physics (slightly more advanced than those in Mathematical Physics I) in the language of Mathematics. 2. Identify a range of diverse mathematical techniques to formulate and solve a problem in basic Physics. 3. Analyze some of the useful mathematical methods. 4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of fundamental topics in Physics. 5. Construct a problem in Physics computationally.
		C V : MATHEMATICAL PHYSICS-II (LAB)	This course will : 1. Develop the requisite mathematical skills to understand some of the fundamental topics (slightly more advanced than those in Mathematical Physics I) in Physics. 2. Develop the ability of a student to critically analyze a topic. 3. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics. 4. Enable a student to understand the use and importance of computational / numerical methods in Physics and enable a student to construct a Physics problem computationally.
		C-VI : THERMAL PHYSICS	At the completion of this course, a student will be able to 1. Develop knowledge on the classical laws of thermodynamics and their application 2. Use the knowledge of thermodynamics in various applications in allied fields like Materials science, Condensed matter Physics, Atmospheric Physics, Solar Physics, etc. 3. Probe questions in varied fields of Physics, chemistry and biology

			based on principles of Thermal Physics. 4. Use the concept of thermodynamics in real world experiences 5. Develop critical and analytical thinking of the student on thermodynamics and allied disciplines
		C VI : THERMAL PHYSICS (LAB)	This course will enable the students to 1. Apply the laws of thermodynamics in real world problems. 2. Conduct scientific problems and experiments on thermodynamics and allied disciplines. 3. Demonstrate a working knowledge of the physical principles in Thermal Physics.
		C-VII : DIGITAL SYSTEMS AND APPLICATIONS	At the completion of this course, a student will be able to : 1. Know about the basic laboratory equipment electronics. 2. Understand basic digital electronics concepts and devices. 3. Analyze digital circuits.
		C VII: LAB	This course will enable a student to 1. Identify and understand digital electronic principles and systems. 2. Apply the knowledge to analyze and apply digital circuits in solving circuit level problems. 3. Build real life applications using digital systems.
		C-VIII : MATHEMATICAL PHYSICS-III	At the completion of this course, a student will be able to 1. Write a problem in Physics (slightly more advanced than those in Mathematical Physics I and II) in the language of mathematics. 2. Identify a range of diverse mathematical techniques/ideas to formulate, simplify and solve some problems in Physics. 3. Analyze some of the useful mathematical ideas and techniques. 4. Apply the knowledge and understanding of these mathematical methods to solve problems in a number of fundamental topics in Physics. 5. Construct a problem in Physics computationally and use simulations to design an experiment.
		C VIII: MATHEMATICAL PHYSICS-III (LAB)	This course will 1. Develop mathematical skills of a student to understand some of the fundamental topics (slightly more advanced than those in Mathematical Physics I and II). 2. Develop the ability of a student to critically analyze a topic. 3. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics.

			4. Enable a student to understand the use and importance of computational/ numerical methods in Physics and to construct a problem computationally. 5. Help a student to pursue advanced studies in Physics.
		C-IX : ELEMENTS OF MODERN PHYSICS	At the completion of this course, a student will be able to 1. Understand the theoretical basis for the understanding of quantum Physics as the basis for dealing with microscopic phenomena. 2. Apply concepts of 20th Century Modern Physics to deduce the structure of atoms. 3. Explain the wave-particle duality of the photon. 4. Analyze the structure of matter at its most fundamental. 5. Develop insight into the key principles and applications of Nuclear Physics
		C IX : ELEMENTS OF MODERN PHYSICS (LAB)	This course will enable the students to : 1. Understand and appreciate the theory of modern physics 2. Develop the ability to apply it in solving simple problems in Quantum Mechanics (QM), structure of atoms, Laser, and Nuclear Physics.
		C-X : ANALOG SYSTEMS AND APPLICATIONS	At the completion of this course, a student will be able to 1. Know about the basics of semiconductor PN junction, its various types and its application to different electronic circuits. 2. Understand bipolar junction transistor and its applications as amplifier and oscillators. 3. Familiarize with operational amplifiers, its applications and analysis. 4. Develop knowledge about analog to digital and digital to analog conversion techniques
		C X : ANALOG SYSTEMS AND APPLICATIONS (LAB)	This course will enable the students to 1. Learn the foundation knowledge of analog electronic systems. 2. Learn the working and applications of PN junction and bipolar junction transistors (BJT). 3. Learn to analyze circuits containing PN junction and BJT along with the application of BJT as amplifiers and oscillators. 4. Develop basic knowledge of operational amplifier and its applications.
		C-XI : QUANTUM MECHANICS AND APPLICATIONS	At the completion of this course, a student will be able to 1. Know about the development of modern Physics and the theoretical formulation of quantum mechanics. 2. Know the applications of quantum mechanics in solving physical

			problems.
		C XI: QUANTUM MECHANICS AND APPLICATIONS (LAB)	This course will enable students to 1. Learn how to apply quantum mechanics to solve physical systems in different areas of science. 2. Know about the physical behavior of materials. 3. Learn how the scientific behavior of materials can be used for human applications.
		C-XII : SOLID STATE PHYSICS	At the completion of this course, a student will be able to 1. Familiarize with fundamentals of Solid State Physics. 2. Know about the structural, electronic and lattice vibration dependent behavior of solids. 3. Learn the basic concepts in hands on mode through laboratory experiments associated with the course.
		C XII: SOLID STATE PHYSICS (LAB)	The course will 1. Equip a student with basic concepts of solid state Physics so that the knowledge can be applied for further development of the subject. 2. Enable a student to work in both theoretical and experimental aspects of solid state Physics. 3. Help the students in thorough learning of the concepts associated to the course through the laboratory experiments.
		C-XIII : ELECTROMAGNETIC THEORY	At the completion of this course, a student will be able to 1. Understand the physical and mathematical principles to provide in-depth analysis of the behavior of electricity and magnetism in matter. 2. Apply Maxwell's equations to explain the properties of the electromagnetic wave and its interaction with matter. 3. Analyze the principles and processes related to polarization, interference, and diffraction along with their applications to the development of wave-guide and optical fibers.
		C XIII: ELECTROMAGNETIC THEORY (LAB)	This course will enable a student to 1. Solve problems relevant to interfaces between media with defined boundary conditions. 2. Use Maxwell's equations to describe the behaviour of electromagnetic waves in vacuum as well as medium. 3. Describe states and methods of polarization and analyze the polarization state of a light source.
		C-XIV : STATISTICAL MECHANICS	The objectives of this course are to 1. Introduce the basic concepts of Statistical Mechanics so that students will be able to cope-up with higher level of such course in

			future. 2. Develop the critically thinking ability of students to understand the diverse physical phenomena. 3. Develop the interest and ability among students to solved challenging physical problems by the application of techniques of Statistical Mechanics in future.
		C XIV: STATISTICAL MECHANICS (LAB)	This course will 1. Equip the students with basic knowledge of the Statistical Mechanics and hence will be able to look critically for analyzing any physical phenomena. 2. Create interest to the subject to pursue further higher study in future. 3. Enable the students to solve any challenging physical problem in statistical mechanics
	DISCIPLINE SPECIFIC ELECTIVE COURSES (ELECTIVE COURSES)	**DSE -I : CLASSICAL DYNAMICS**	This course will enable the students to 1. Prepare for the study of modern Physics. 2. Develop basic theoretical ingredients necessary to study advanced theoretical courses like quantum mechanics. 3. Learn a number of mathematical techniques applicable to Physics problems in different areas. 4. Develop knowledge of special relativity which is essential to understand the relativistic formulation of modern theories.
		DSE -2 PHYSICS OF DEVICES AND INSTRUMENTS	After completing this course, a student will be able to : 1. Know about various devices like UJT, FET, MOSFET, CMOS etc. and its application to different electronic circuits. 2. Design rectifiers, passive and active filters, multivibrators etc. 3. Familiarize with the IC fabrication techniques. 4. Learn about digital data communication standards and also about communication systems.
		DSE 2 : PHYSICS OF DEVICES AND INSTRUMENTS (LAB)	This course will enable the students to : 1. Develop knowledge about various devices like UJT, FET etc. and to use these devices for different applications. 2. Design and analyse filter circuits, power supply FET amplifiers etc. 3. Develop the basic knowledge of IC fabrications, data communication standards and communication systems.
		DSE -2 : ASTRONOMY AND ASTROPHYSICS	This course will : 1. Equip the students with basic knowledge of the Astrophysics. 2. Create interest to the subjects of Astrophysics and to pursue further

			higher studies in the subject concerned in future. 3. Develop the critically analyzing ability, which may motivate the students to solve any challenging physical problem in future.
		DSE -2 : PHYSICS OF EARTH	This course will enable the students to : 1. Develop critical and quantitative thinking of scientific issues related to the study of cosmology and Earth Sciences . 2. Understand the basic principles of various processes of the Earth. 3. Apply the acquired knowledge on the study of the Universe 4. Pursue career in Earth Sciences, Cosmology etc. 5. Understand the contemporary dilemmas on Earth and Environmental issues like climate change, air pollution, deforestation etc.
		DSE -3 : NUCLEAR AND PARTICLE PHYSICS	This course will enable the students to 1. Develop knowledge regarding nuclear and elementary particle as well as properties and phenomena related to them. 2. Successfully apply the same knowledge in solving problems in the field of nuclear and particle Physics.
		DSE -4 : NANO MATERIALS AND APPLICATION	The aim of the course is to 1. Provide a systematic coverage and insight into the promising area of nano materials in order to facilitate the understanding of the nature and prospects for the field. 2. Provide information about various synthesis and characterization techniques of nano materials. 3. Discuss optical and electronic transport properties of nano materials. 4. Discuss applications of nano materials.
		DSE 4 : NANO MATERIALS AND APPLICATIONS (LAB)	This course will enable the students to 1. Gather sufficient knowledge about the fascinating behaviour of nanomaterials and tuning of such properties for different applications. 2. Obtain information on experimental methodologies with necessary theoretical background, which may be useful for pursuing further study on the areas of nanoscience and technology.
		DSE -4 : EXPERIMENTAL TECHNIQUES	After completing this course, a student will be able to 1. Enhance experimental knowledge. 2. Develop the theoretical as well as experimental knowledge of different instruments and instrumentation. 3. Enhance the knowledge of some measurement techniques and data and error analysis technique.

		DSE 4 : EXPERIMENTAL TECHNIQUES (LAB)	This course will enable the students to 1. Develop the theoretical as well as experimental knowledge on different instruments and instrumentation. 2. Develop the knowledge of some measurement techniques and data and error analysis technique, which is very essential for a Physics student. 3. Handle different electrical network based instruments.
		DSE 5: DISSERTATION (PROJECT WORK)	The objective of this course is to develop the written and verbal communication. To present information in a clear an effective manner, to write report in a scientific style and to solve scientific problems. Students will gain an understanding of: --- i. Communication effectively, verbally and written for the purpose of conveying scientific information to both professional scientist and to the public. ii. Availability of instrument for conducting specific, scientific research
	GENERIC ELECTIVE COURSES (ELECTIVE COURSES)	**GE-1 : MECHANICS**	At the completion of this course, a student will be able to 1. Understand the basics of vector algebra and the techniques of solving ordinary differential equations. 2. Understand the basic components of mechanics- e.g. motion, force and torque, mass and moment of inertia, linear and angular momenta, kinetic energy and potential energy etc. and the conservation theorems. 3. Study the mechanics of gravitational systems and simple harmonic motion. 4. Study the elastic behaviour of materials. 5. Realize the idea of frame of reference and its implications in the study of special relativity.
		GE-1: MECHANICS (LAB)	This course will enable the students to 1. Develop basic knowledge of mechanics as it is helpful to study any other course in science discipline. 2. Develop knowledge of vector algebra and differential equations which will help students in the study of theoretical courses in science. 3. Acquire useful knowledge about material science. 4. Explain the abstract idea of 4-dimensional world to students which are not from physics discipline.
		GE-2 : ELECTRICITY AND MAGNETISM	At the completion of this course, a student will be able to : 1. Understand basic knowledge of electricity and magnetism. 2. Understand basic knowledge of electrical and magnetic properties

			of matter in brief. 3. Understand the basic knowledge of the effect of electric field on magnetic field and the effect of magnetic field on current. 4. Understand the basic principle of the electrical circuit (AC) circuit and electrical networking. 5. Develop the basic theoretical as well as experimental skill on electrical networking.
		GE-2: ELECTRICITY AND MAGNETISM (LAB)	This course will enable the students to 1. Perform quantitative analyses of basic problems in Electrostatics and Magnetodynamics. 2. Apply Gauss's Law, Ampere's Law, and Biot-Savart Law to solving practical problems in electricity and magnetism. 3. Apply the fundamental laws of electromagnetism to solve problems of electrostatics, magnetostatics, and electromagnetic induction 4. Explain and analyze the behaviour of alternating currents in LCR circuits. 5. Perform and interpret the results of simple experiments and demonstrations of physical principles. 6. Solve problems relevant to interfaces between media with defined boundary conditions.
		GE-3 : THERMAL PHYSICS AND STATISTICAL MECHANICS	At the completion of this course, a student will be able to 1. Develop the working knowledge of the laws and methods of thermodynamics and elementary statistical mechanics. 2. Provide insight to the postulates of Statistical Mechanics and statistical interpretation of thermodynamics 3. Understand the laws of radiation and acquire knowledge for their applications in various disciplines in Physics, Chemistry, Biology, Earth and Atmospheric Sciences. 4. Develop application oriented knowledge on laws of statistical mechanics in selected problems 5. Use the methodologies, conventions and tools of thermal and statistical physics to test and communicate ideas and explanation
		GE-3:THERMAL PHYSICS AND STATISTICAL MECHANICS (LAB)	This course will enable the students to 1. Apply laws of thermodynamics and statistical mechanics to a range of situations in real world problems. 2. Conduct scientific problems and experiments on thermodynamics and allied disciplines . 3. Demonstrate a working knowledge of the physical principles

			describing the thermal physics.. 4. Explain thermal physics as logical consequences of the postulates of statistical mechanics
		GE-4 : WAVES AND OPTICS	At the completion of this course, a student will be able to 1. Learn the basic ideas of the behaviour of light based on its wave nature. 2. Develop the knowledge of the different phenomena due to the interaction of light among them and with mater. 3. Learn about some fundamental principles of light which is used in different optical instrument which very essential for Physics student.
		GE-4 : WAVES AND OPTICS (LAB)	This course will enable the students to 1. Justify different phenomena due to light and the interaction of light among them and with matter. 2. Use different optical instruments. 3. Produce different natural phenomena using different apparatus in the laboratory.
B.SC. ZOOLOGY HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**ZC101T: NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES**	The objective of the course is to expose the students to various forms of protozoa and worms; their classification and structural anatomy.
		ZC101P: NON-CHORDATES I: PROTISTS TO PSEUDOCOELOMATES	
		ZC102T: PRINCIPLES OF ECOLOGY	The objective of the course is to familiarize the students with fundamentals of ecology and impacts of ecological factors on living organisms.
		ZC102P: PRINCIPLES OF ECOLOGY	
		ZC203T: NON-CHORDATES II: COELOMATES	The objective of the course is to expose the students to various forms of coelomates, their classification and structural anatomy
		ZC203P: NON-CHORDATES II: COELOMATES	
		ZC204T: CELL BIOLOGY	The objective of the course is to expose the students to structure and function of a cell as the fundamental unit of life.
		ZC204P: CELL BIOLOGY	
		ZC305T: DIVERSITY OF CHORDATA	The objective of the course is to expose the students to various forms of chordates, their classification and structural anatomy.
		ZC305P: DIVERSITY OF CHORDATA	

		ZC306T: ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS	The objective of this course is to provide a foundation for understanding the complexities of the coordination system of animal body.
		ZC306P: ANIMAL PHYSIOLOGY: CONTROLLING AND COORDINATING SYSTEMS	
		ZC307T: FUNDAMENTALS OF BIOCHEMISTRY	The objective of this course is to expose the students to biomolecules of living organisms, their interactions for perpetuation of life.
		ZC307P: FUNDAMENTALS OF BIOCHEMISTRY	
		ZC408T: COMPARATIVE ANATOMY OF VERTEBRATES	The objective of this course is to provide a foundation for understanding the anatomical structures of different organ systems in vertebrate animals.
		ZC408P: COMPARATIVE ANATOMY OF VERTEBRATES	
		ZC409T: ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS	The objective of this course is to provide a foundation for understanding the physiological functions of animals.
		ZC409P: ANIMAL PHYSIOLOGY: LIFE SUSTAINING SYSTEMS	
		ZC410T: BIOCHEMISTRY OF METABOLIC PROCESSES	The objective of this course is to provide a foundation for understanding the metabolic pathways of the animals and the biochemistry involved in such processes.
		ZC410P: BIOCHEMISTRY OF METABOLIC PROCESSES	
		ZC511T: MOLECULAR BIOLOGY	The objective of this course is to provide a foundation for understanding the phenomenon of life and its continuation at molecular level.
		ZC511P: MOLECULAR BIOLOGY	
		ZC512T: PRINCIPLES OF GENETICS	The objective of this course is to provide a foundation for understanding the concept of heredity and the mechanism of continuation of race.
		ZC512P: PRINCIPLES OF GENETICS	
		ZC613T: DEVELOPMENTAL BIOLOGY	The objective of this course is to provide a foundation for understanding the developmental phases of higher animals.

		ZC613P: DEVELOPMENTAL BIOLOGY	
		ZC614T: EVOLUTIONARY BIOLOGY	The objective of this course is to provide a foundation for understanding the origin of life and evolution of organisms with special reference to animals.
		ZC614P: EVOLUTIONARY BIOLOGY	
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**ZD501T: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY**	The objective of this course is to provide a foundation for understanding the concepts related to animal behaviour, biological clocks and biological rhythm.
		ZD501P: ANIMAL BEHAVIOUR AND CHRONOBIOLOGY	
		ZD502T: COMPUTATIONAL BIOLOGY	The objective of this course is to provide a foundation for understanding the concepts of bioinformatics and its applications, application of statistics in biological studies.
		ZD502P: COMPUTATIONAL BIOLOGY	
		ZD503T: ENDOCRINOLOGY	The objective of this course is to provide a foundation for understanding the role and functions of hormones in life processes including the structure of endocrine system.
		ZD503P: ENDOCRINOLOGY	
		ZD504T: BIOLOGY OF INSECTA	The objective of this course is to provide a foundation for understanding the taxonomy, morphology, physiology, social organization of insects and their interaction with plants.
		ZD504P: BIOLOGY OF INSECTA	
		ZD505T: BASICS OF NEUROSCIENCE	The objective of this course is to provide a foundation for understanding the structure and functions of nervous system, molecular and cellular neurobiology, neurotransmitters and neuropharmacology.
		ZD505P: BASICS OF NEUROSCIENCE	
		ZD606T: ANIMAL BIOTECHNOLOGY	The objective of this course is to provide a foundation for understanding the concepts and scope of biotechnology, molecular techniques in gene manipulation, GMOs, cultural techniques and its application with special reference to animals.
		ZD606P: ANIMAL BIOTECHNOLOGY	
		ZD607T: FISH AND FISHERIES	The objective of this course is to provide a foundation for understanding the classification, morphology and physiology of fishes, structure and types of fisheries and aquaculture.
		ZD607P: FISH AND FISHERIES	
		ZD608T: IMMUNOLOGY	The objective of this course is to provide a foundation for understanding the details of immune system and immunity and vaccines.
		ZD608P: IMMUNOLOGY	

		ZD609T: PARASITOLOGY	The objective of this course is to provide a foundation for understanding the morphology and life cycle of various types of parasitic animals.
		ZD609P: PARASITOLOGY	
		ZD610T: REPRODUCTIVE BIOLOGY	The objective of this course is to provide a foundation for understanding the process of reproduction in higher animals including reproductive health.
		ZD610P: REPRODUCTIVE BIOLOGY	
		ZD611T: WILD LIFE CONSERVATION AND MANAGEMENT	The objective of this course is to provide a foundation for understanding the details of wild life, its conservation measures, management of wild life.
		ZD611P: WILD LIFE CONSERVATION AND MANAGEMENT	
		ZD612: DISSERTATION (PROJECT WORK)	The objective of this course is to develop the written and verbal communication. To present information in a clear an effective manner, to write report in a scientific style and to solve scientific problems. Students will gain an understanding of: --- i. Communication effectively, verbally and written for the purpose of conveying biological information to both professional scientist and to the public. ii. Availability of instrument for conducting specific, scientific research
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GE IT: ANIMAL CELL BIOTECHNOLOGY**	The objective of this course is to provide a foundation for understanding the principles of biotechnology with special reference to animal cells and animal products
		GE IP: ANIMAL CELL BIOTECHNOLOGY	
		GE IIT: ANIMAL DIVERSITY	The objective of this course is to provide a foundation for understanding the diversity of animal kingdom.
		GE IIP: ANIMAL DIVERSITY	
		GE IIIT: AQUATIC BIOLOGY	The objective of this course is to provide a foundation for understanding the ecology of water bodies with special reference to animal life and management of aquatic resources.
		GE IIIP: AQUATIC BIOLOGY	
		GE IVT: ENVIRONMENT AND PUBLIC HEALTH	The objective of this course is to provide a foundation for understanding the environmental hazards and their management, climate change, some major human diseases.
		GE IVP: ENVIRONMENT AND PUBLIC HEALTH	
		GE VT: EXPLORING THE	The objective of this course is to provide a foundation for

		BRAIN: STRUCTURE AND FUNCTION	understanding the details about structure, evolution and functioning of brain.
		GE VP: EXPLORING THE BRAIN: STRUCTURE AND FUNCTION	
		GE VIT: FOOD, NUTRITION AND HEALTH	The objective of this course is to provide a foundation for understanding the basic concepts of food and nutrition, nutritional biochemistry, health and food hygiene.
		GE VIP: FOOD, NUTRITION AND HEALTH	
		GE VIIT: HUMAN PHYSIOLOGY	The objective of this course is to provide a foundation for understanding the structure of different organs and mechanisms of different physiological functions of human body.
		GE VIIP: HUMAN PHYSIOLOGY	
		GE VIIIT: INSECT VECTORS AND DISEASES	The objective of this course is to provide a foundation for understanding the classification, morphology, control and preventive measures of insect vectors of diseases.
		GE VIIIP: INSECT VECTORS AND DISEASES	
B.SC. HONOURS (ALL)	**GENERIC ELECTIVE (ELECTIVE COURSES)**	**GE-1: COMPUTER FUNDAMENTALS**	From this course students will learn about Introduction to logical organization of computer, input and output devices (with connections and practical demo), keyboard, mouse, joystick, scanner, OCR, OMR, monitor, printer, plotter, primary memory, secondary memory, auxiliary memory, User Interface, bluetooth, cloud computing, data mining, mobile computing.
		GE-1: COMPUTER FUNDAMENTALS PRACTICAL	
		GE-2: INTRODUCTION TO DATABASE SYSTEM	From this course students will learn about database, relational data model, DBMS architecture, data independence, DBA, database users, end users, front end tools; E-R Modeling: Entity types, entity set, attribute and key, relationships, relation types, E- R diagrams, database design using ER diagrams Relational Data Model: Relational model concepts, relational constraints, primary and foreign key, normalization: 1NF, 2NF, 3NF Structured Query Language: SQL queries, create a database table, create relationships between database tables, modify and manage tables, queries, forms, reports, modify, filter and view data.
		GE-2: INTRODUCTION TO DATABASE SYSTEM PRACTICAL	
		GE-3: MULTIMEDIA AND APPLICATIONS	From this course students will learn about multimedia, Fonts & Faces, Using Text in Multimedia, Font Editing & Design Tools, Hypermedia &

		GE-3: MULTIMEDIA AND APPLICATIONS PRACTICAL	Hypertext, bitmaps, vector drawing, 3D drawing & rendering, natural light & colors, computerized colors, color palettes, image file formats, Sound files, how video works, analog video, digital video, video file formats, video shooting and editing, animation: Making Multimedia, Multimedia Hardware - Macintosh and Windows production Platforms, Hardware peripherals - Connections, Memory and storage devices, Multimedia software and Authoring tools.
		GE-4: INFORMATION SECURITY AND CYBER LAWS	From this course students will learn about computer network as a threat, hardware vulnerability, software vulnerability, importance of data security, Digital Crime, Information Gathering Techniques, Risk Analysis and Threat, Introduction to Cryptography and Applications, Safety Tools and Issues , Cyber laws to be covered as per IT 2008.
		GE-4: INFORMATION SECURITY AND CYBER LAWS PRACTICAL	
B.COM. HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**C 101 - FINANCIAL ACCOUNTING**	The objective of this paper is to help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
		C 102- BUSINESS LAW	The objective of the course is to impart basic knowledge of the important business legislation along with relevant case law.
		C 203-CORPORATE ACCOUNTING	To help the students to acquire the conceptual knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.
		C 204-CORPORATE LAW	The objective of the course is to impart basic knowledge of the provisions of the Companies Act 2013 and the depositories Act, 1996. Case studies involving issues in corporate laws are required to be discussed.
		C 305- HUMAN RESOURCE MANAGEMENT	The objective of the course is to acquaint students with the techniques and principles to manage human resource of an organisation.
		C 306- INCOME TAX LAW AND PRACTICE	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and the relevant Rules.
		C 307-MANAGEMENT PRINCIPLES AND APPLICATION	The objective of the course is to provide the student with an understanding of basic management concepts, principles and practices.
		C 408-COST ACCOUNTING	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.
		C 409- BUSINESS MATHEMATICS	The objective of the course is to familiarise the students with basic mathematical tools, with an emphasis on applications to business and

			economic situations.
		C 410- COMPUTER APPLICATION IN BUSINESS	To provide computer skills and knowledge to commerce students and to enhance the students understanding of usefulness of IT tools for business operations.
		C 511 PRINCIPLES OF MARKETING	The objective in this course is to help students to understand the concept of marketing and its applications.
		C 512 FINANCIAL MANAGEMENT	The objective of this course is to acquaint students with the concepts of financial management.
		C 613 AUDITING	The course aims at imparting knowledge about the principles and methods of Auditing and their applications.
		C 614 GST LAW AND PRACTICE	This course is intended to introduce the students with the structure of Indirect tax in India. The principles of indirect tax and direct taxes are also been included for conceptualization of tax structure. The students are also expected to learn the concept of GST and its history. They will also learn about the record keeping aspects under GST regime and filling of GST return periodically as per the prescribed procedure.
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE 501 G I MANAGEMENT ACCOUNTING**	This course provides the students an understanding of the application of accounting techniques for management.
		DSE 502 G I ADVANCED FINANCIAL ACCOUNTING	The basic aim of this paper is to acquaint the students with advanced topics in accounting.
		DSE 501 G III CONSUMER BEHAVIOUR	The course aims at perceiving the students the principle factors influencing Consumer Behaviour and Consumer Market.
		DSE 502 G III RETAIL MANAGEMENT	The objective of this course is to acquaint students with distribution methods and retailing system.
		DSE 601 (GROUP-I) SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	The objective of this course is to acquaint the students with the basics of Security analysis and portfolio management.
		DSE 601 (GROUP-III) SERVICE MARKETING	The objective of this course is to acquaint students with the nature and forms of services and their marketing implications.
		DSE 602 (GROUP-I) FINANCIAL STATEMENT ANALYSIS	The basic aim of this course is to acquaint students with the skill of Financial Statement Analysis.
		DSE 602 (GROUP-III) ADVERTISING MANAGEMENT	The course will acquaint the students about advertisement and sales promotion.

	GENERIC ELECTIVE (ELECTIVE COURSES)	**G 101- MICRO ECONOMICS**	The objective of the course is to acquaint the students with the concepts of microeconomics dealing with consumer behavior. The course also makes the student understand the supply side of the market through the production and cost behavior of firms.
		G 202: MACRO ECONOMICS	The course aims at providing the student with knowledge of basic concepts of the macro economics. The modern tools of macro-economic analysis are discussed and the policy framework is elaborated, including the open economy.
		G 303: BUSINESS STATISTICS	The objective of this course is to familiarise students with the basic statistical tools used for managerial decision-making.
		G 404: INDIAN ECONOMY	This course seeks to enable the students to grasp the major economic problems of India and their solutions.
	SKILL ENHANCEMENT COURSE (ELECTIVE COURSES)	**SE 302- E-COMMERCE**	To enable the students to become familiar with the mechanism for conducting business transactions through electronic means.
		SE 403- ENTREPRENEURSHIP DEVELOPMENT-I	To enable the students to understand the concept of entrepreneurship and the supporting programmes launched by Govt. of India with special reference to N.E. India.
		SE 403A- RETAIL MANAGEMENT-I	To enable the students to understand the concept of retailing in business with special reference to India marketing systems.
B.COM. NON-HONOURS	**CORE COURSES (COMPULSORY COURSES)**	**CC101: GENERAL ENGLISH**	
		CC102 : FINANCIAL ACCOUNTING	To help students to acquire conceptual knowledge of the financial accounting and to impart skills for recording various kinds of business transactions.
		CC103: BUSINESS ORGANISATION AND MANAGEMENT	To provide basic knowledge to the students about the organization and management of a business enterprise.
		CC 202 : BUSINESS LAW	To impart basic knowledge of the important business legislation along with relevant case law.
		CC203 : BUSINESS MATHEMATICS AND STATISTICS	To familiarize students with the applications of mathematics and statistical techniques in business decision-making.
		CC302: COMPANY LAW	The objective of the course is to impart basic knowledge of the provisions of the Companies Act 2013. Case studies involving issues in company law are required to be discussed.
		CC303:INCOME TAX LAW AND PRACTICE	To provide basic knowledge and equip students with application of principles and provisions of Income-tax Act, 1961 and the relevant

			Rules.
		CC402: CORPORATE ACCOUNTING	To enable the students to acquire the basic knowledge of the corporate accounting and to learn the techniques of preparing the financial statements.
		CC403: COST ACCOUNTING	To acquaint the students with basic concepts used in cost accounting, various methods involved in cost ascertainment and cost accounting book keeping systems.
	DISCIPLINE SPECIFIC ELECTIVE (ELECTIVE COURSES)	**DSE 501 G I MANAGEMENT ACCOUNTING**	This course provides the students an understanding of the application of accounting techniques for management.
		DSE 502 G I ADVANCED FINANCIAL ACCOUNTING	The basic aim of this paper is to acquaint the students with advanced topics in accounting.
		DSE 501 G III CONSUMER BEHAVIOUR	The course aims at perceiving the students the principle factors influencing Consumer Behaviour and Consumer Market.
		DSE 502 G III RETAIL MANAGEMENT	The objective of this course is to acquaint students with distribution methods and retailing system.
		DSE 601 G I SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	The objective of this course is to acquaint the students with the basics of Security analysis and portfolio management.
		DSE 601 G III SERVICE MARKETING	The objective of this course is to acquaint students with the nature and forms of services and their marketing implications.
		DSE 602 G I FINANCIAL STATEMENT ANALYSIS	The basic aim of this course is to acquaint students with the skill of Financial Statement Analysis.
		DSE 602 (GROUP-III) ADVERTISING MANAGEMENT	The course will acquaint the students about advertisement and sales promotion.
	GENERIC ELECTIVE (ELECTIVE COURSES)	**GEC 501 PRINCIPLES OF MICRO ECONOMICS**	The objective of the course is to acquaint the students with the concepts of microeconomics dealing with consumer behavior. The course also makes the student understand the supply side of the market through the production and cost behavior of firms.
		GEC 601 INDIAN ECONOMY	This course seeks to enable the student to grasp the major economic problems in India and their solution. It also seeks to provide an understanding of modern tools of macro-economic analysis and policy framework.
	SKILL ENHANCEMENT	**SE 501- ENTREPRENEURSHIP-II**	To enable the students to understand the concept of entrepreneurship and the supporting and promotional agencies and institutions with

	COURSE (ELECTIVE COURSES)		special reference to India.
		SE 601 PERSONAL SELLING AND SALESMANSHIP	The purpose of this course is to familiarize the students with the fundamentals of personal selling and the Selling process. They will be able to understand selling as a career and what it takes to be a successful salesman.
PGDCA	**CORE PAPERS**	**101TH: FUNDAMENTALS OF COMPUTERS**	On completion of the course, students will be able to • Identify computer hardware and peripheral devices, • Differentiate various number systems, • Distinguish the advantages and disadvantages of various operating systems. • Use Microsoft Office suite.
		101PR: FUNDAMENTALS OF COMPUTERS	
		102TH: PROGRAMMING WITH C	On completion of the course, students will be able to • Comprehend fundamental concepts of C program. • Develop C code for different problems.
		102PR: PROGRAMMING WITH C	
		103TH: RELATIONAL DATABSE MENEGEMENT SYSTEM	On completion of the course, students will be able to • Define database. • Explain the advantages of database. • Construct database model. • Use RDBMS's back end and front end tools.
		103PR: RELATIONAL DATABSE MENEGEMENT SYSTEM	
		104TH: DATA COMMUNICATION AND COMPUTER NETWORK	On completion of the course, students will be able to • Describe fundamental concepts of data communication and computer networks. • Illustrate the Layers of ISO/OSI and TCP/IP reference model.
		104PR: DATA COMMUNICATION AND COMPUTER NETWORK	
		105: PROJECT I	On completion of the course, students will be able to • Comprehend fundamental concepts of system analysis and design • Use and apply the concepts of courses of the 1st semester PGDCA programme.
		201TH: INTRODUCTION TO MULTIMEDIA	On completion of the course, students will be able to • Summarize the key concepts in current multimedia technology. • Create quality multimedia software titles.
		201PR: INTRODUCTION TO MULTIMEDIA	

		202TH: DESKTOP PUBLISHING **202PR: DESKTOP PUBLISHING**	On completion of the course, students will be able to • Create book works, building booklets, completing the book using PageMaker • Create business cards, pamphlets, banners, newspapers, books using CorelDraw • Use various tools of Photoshop
		203TH: INTERNET AND WEN TECHNOLOGY **203PR: INTERNET AND WEN TECHNOLOGY**	On completion of the course, students will be able to • Develop and publish web sites. • Resolve Code and troubleshoot HTML web pages, incorporating CSS and JavaScripts.
		204TH: MOBILE TECHNOLOGY **204PR: MOBILE TECHNOLOGY**	On completion of the course, students will be able to • Explain different mobile operating system. • Discuss various mobile technologies. • Develop mobile applications.
		205: PROJECT II	On completion of the course, students will be able to • Implement the concepts in real life applications • Use and apply the concepts of courses of the PGDCA programme.