PROGRAMMEE OUTCOMES

&

LEARNING OUTCOMES

SILAPATHAR COLLEGE, SILAPATHAR

PIN: 787059

Programme Outcomes and Course Outcomes of Assamese Department

DEPARTMENT OF ASSAMESE
SILAPATHAR COLLEGE
PO: SILAPATHAR – 787059, DIST: DHEMAJI (ASSAM)
Website: www.silapatharcollege.edu.in
NAAC Accredited with CGPA of 2.62 on 15/11/2015 as 'B' Grade

স্নাতক পৰ্যায়ৰ অসমীয়া উচ্চমানৰ পাঠ্যক্ৰম
প্ৰথম ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C- 1
অসমীয়া সাহিত্যৰ বুৰঞ্জী
পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া সাহিত্যৰ সমগ্ৰ পৰিক্ৰমাৰ একসাধাৰণ পৰিচয় দিয়া এই পাঠ্যক্ৰমৰ উদ্দেশ্য।

২)লোকসাহিত্যৰ পৰা শংকৰোত্তৰ যুগলৈকে ৰচিত অসমীয়া সাহিত্যৰাজিৰ সামগ্ৰিক গতি-প্ৰকৃতিৰ ধাৰণা দিবলৈ ৰচিৰা হৈছে।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) অসমীয়া সাহিত্যৰ বুৰঞ্জী সৰ্ম্পকে সম্যক ধাৰণা পোৱাৰ লগতে কালানুক্ৰমকিভাৱে অসমীয়া সাহিত্যৰ বিভিন্ন ধাৰাৰ বিষয়ে জানিব পাৰিব।

২) লোকসাহিত্যৰ স্বৰূপ, সংজ্ঞা আৰু বৈশিষ্ট্যৰ বিষয়ে জানিব পাৰিব।

৩) অসমীয়া মৌখিক সাহিত্যৰ শ্ৰেণীবিভাগ সৰ্ম্পকে ধাৰণা লব পাৰিব।

৪) প্ৰাকশংকৰী যুগৰ সাহিত্য আৰু কবিসকলৰ বিষয়ে জানিব পাৰিব।

৫) বৈষ্ণৱ ধৰ্ম আৰু ইয়াৰ আঁতগুৰি সৰ্ম্পকে আলোচনা, বৈষ্ণৱ সাহিত্যৰ স্বৰূপ, শংকৰদেৱ মাধৱদেৱ আৰু তেওঁ লোকৰ অনুগামীসকলৰ সাহিত্যৰাজিৰ বিষয়ে জানিব পাৰিব।

পাঠ্যক্ৰমৰ সংখ্যা: C-2
অৰুনোদই যুগৰ পৰা সাম্প্ৰতিক কাল পৰ্যন্ত
পাঠ্যক্ৰমৰ উদ্দেশ্য

১) আধুনিক অসমীয়া ভাষা- সাহিত্যৰ পটভূমি আলোচনা কৰা

২) সাম্প্ৰতকি কালৰ সাহিত্যৰ গতি-প্ৰকৃতি আলোচনা এই পাঠ্যক্ৰমৰ মূল উদ্দেশ্য।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি-

১) অসমীয়া জাতীয় জীৱনত নতুন ধ্যানধাৰণা প্ৰতিষ্ঠাৰ ক্ষেত্ৰত মিছিনৰীসকল আৰু অৰুনোদই আলোচনীৰ ভূমিকা সৰ্ম্পকে জানিব পাৰিব।

২) অৰুনোদইৰ জৰিয়তে লেখকৰূপে প্ৰতিষ্ঠা লাভ কৰা বিদেশী আৰু স্বদেশী খৃষ্টিয়ান আৰু অনা খৃষ্টিয়ান ব্যক্তিসকলৰ বিষয়ে জানিব পাৰিব।

৩) ৰোমাণ্টিক সাহিত্যৰ স্বৰূপ লক্ষণ আৰু সৃষ্টি আৰু বিকাশ সৰ্ম্পকে জানিব পাৰ

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Principal
Silapathar College
Silapathar

৪) জনোনাকী যুগ ৰামধনু যুগৰ সাহিত্যৰ পটভূমি আৰু বৈশিষ্ট্যৰ বিষয়ে আলোচনা কৰা।

৫) অসমীয়া সাহিত্যত পাশ্চাত্যৰ প্ৰভাৱ আৰু সাম্প্ৰতিক কালৰ কবিতা গল্প আৰু শিশু সাহিত্যৰ বিষয়ে জানিব পাৰিবি।

দ্বিতীয় ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C-3

(ভাষাবিজ্ঞানৰ পৰিচয়)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) প্ৰাচ্য আৰু পাশ্চাত্যৰ ভাষা সম্পৰ্কীয় চিন্তা-চৰ্চা

২) ভাষা আৰু ভাষাবিজ্ঞান সম্পৰ্কীয় আলোচনা এই পাঠ্যক্ৰমৰ উদ্দেশ্য।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি-

১) ভাষা কি, ভাষাৰ সংজ্ঞা আৰু ভাষাৰ বৈশিষ্ট্যৰ ভিত্তিতে ভাষাৰ স্বৰূপ সম্পৰ্কে জানিব পাৰিবি।

২) ভাষা-বিজ্ঞানৰ অধ্যয়ন পদ্ধতি, অধ্যয়নৰ স্তৰ বিষয়ে জানিব পাৰিব

৩) ভাষা-বিজ্ঞানৰ সংজ্ঞা বিকাশ সম্পৰ্কে আলোচনা কৰিব পাৰিবি।

৪) ভাষাৰ বৰ্গীকৰণ, পৃথিৱীৰ ভাষা পৰিয়ালৰ সবিশেষ জানিব পাৰিবি।

৫) ভাষা সম্পৰ্কীয় চিন্তাচৰ্চাৰ ইতিহাস জানিব পাৰিমি।

পাঠ্যক্ৰমৰ সংখ্যা : C-4

সাহিত্যতত্ব

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) এই পাঠ্যক্ৰমৰ জৰিয়তে ছাত্ৰছাত্ৰীসকলক অসমীয়া সাহিত্য অধ্যয়নৰ তাত্ত্বিক জ্ঞান প্ৰদান কৰা উদ্দেশ্য।

২) ভাৰতীয় তথা পাশ্চাত্য সাহিত্যতত্ত্বৰো প্ৰাথমিক জ্ঞান প্ৰদান।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) শব্দশক্তি অৰ্থাত অভিধা, লক্ষণা আৰু ব্যঞ্জনাৰ বিষয়ে বিচাৰ কৰিব পাৰিব

২) ধ্বনি আৰু ৰস বিষয়ে জানিব পাৰিবি।

৩) সাহিত্যত অলংকাৰৰ প্ৰয়োগ বিধি বিচাৰ কৰিব পাৰিবি।

৪) ছন্দ আৰু অসমীয়া ছন্দৰ ৰীতি বিচাৰ বিশ্লেষন কৰিব পাৰিব

৫) সাহিত্যৰ মতবাদৰ সম্পৰ্কে আলোচনা কৰিব পাৰিবি।

তৃতীয় ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C-5

(সাহিত্য-সমালোচনা)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) এই পাঠ্যক্ৰমৰ জৰিয়তে ছাত্ৰছাত্ৰীসকলক বিভিন্ন প্ৰকাৰৰ সাহিত্য সমালোচনাৰ পৰিচয় দিয়া।

২) ইয়াৰ জৰিয়তে সমালোচনা পদ্ধতি তথা বিভিন্ন প্ৰকাৰৰ সাহিত্যৰ স্বৰূপ সম্পৰ্কে অৱগত কৰোৱা।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) সাহিত্যৰ সংজ্ঞা উপাদান আৰু প্ৰকাৰ সম্পৰ্কে জানিব পাৰিবি।

২) সমালোচনাৰ সংজ্ঞা স্বৰূপ আৰু পদ্ধতি বিষয়ে জানিবি।

৩) কবিতাৰ সংজ্ঞা , কবিতাৰ বিভিন্ন ৰূপৰ সম্যক জ্ঞান

৪) ছন্দ, ছন্দৰ ৰীতি আৰু ছন্দৰ প্ৰকাৰবোৰ আলোচনা কৰিবলৈ সক্ষম হব।

৫) সাহিত্যৰ বিভিন্ন ৰূপৰ বিষয়ে জানিব পাৰিবি।

পাঠ্যক্ৰমৰ সংখ্যা : C- 6

অসমীয়া কবিতাৰ চানেকি

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া কবিতাৰ ইতিহাস তথা গতি-প্ৰকৃতি সম্পৰ্কে ছাত্ৰছাত্ৰীসকলক অৱগত কৰোৱা।

২) অসমীয়া কবিতাৰ ধাৰা আৰু বৈশিষ্ট্য জনোৱাৰ উপৰিও লোককবিতাৰে আৰম্ভ কৰি চৰ্যাপদ-প্ৰাকশংকৰী-শংকৰী-শংকৰোত্তৰ যুগ আৰু সাম্প্ৰতিক কবিতা সম্পৰ্কে স্পষ্ট ধাৰণা দিয়া।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি.....

১) অসমীয়া কবিতাৰ ঐতিহাসিক পৰিক্ৰমা সম্পৰ্কে আলোচনা কৰিব পাৰিবি।

২) বিশিষ্ট কবিসকলৰ কাব্যপ্ৰতিভাই অসমীয়া কবিতাক কনেদেৰে সমৃদ্ধশালী কৰি তুলিছে তাৰ ব্যাখ্যা আগবঢ়াব পাৰিবা।

৩) পাঠ্যক্ৰমৰ কবিতাসমূহে অসমীয়া কবিতাৰ ইতিহাসৰ কোনখনি সময়ক প্ৰতিনিধিত্ব কৰিছে তাক চিনাক্ত কৰিব পাৰিবি।

৪) লোককবিতাবোৰ চিনাকী হ'ব পাৰিবি।

পাঠ্যক্ৰমৰ সংখ্যা : C-7

অসমৰ সংস্কৃতি অধ্যয়ন

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) ছাত্ৰছাত্ৰীসকলক সংস্কৃতিৰ ধাৰণা দিয়া।

২) অসমৰ নৃগোষ্ঠী আৰু সংস্কৃতিৰ বিষয়ে অৱগত কৰোৱা।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) সংস্কৃতিৰ সংজ্ঞা , স্বৰূপ আৰু উপাদানৰ বিষয়ে জানিব পাৰিবি।

২) অসমীয়া সংস্কৃতিলৈ বিভিন্ন নৃগোষ্ঠীৰ অৱদানৰ বিষয়ে অৱগত হ'ব।

৩) অসমৰ মিছিং আৰু সোনোৱাল কছাৰী জনগোষ্ঠীৰ সাংস্কৃতিক জীৱনৰ বিষয়ে জানিব পাৰিবি।

৪) বড়ো আৰু কাৰ্বি জনগোষ্ঠীৰ সাজপাৰ আৰু অলংকাৰৰ বিষয়ে জানিব পাৰিবি।

৫) অসমৰ স্থাপত্য ভাস্কৰ্যৰ বিষয়ে অৱগত হ'ব।

চতুৰ্থ ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C–8

(তুলনামূলক সাহিত্যৰ পদ্ধতি আৰু প্ৰয়োগ)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) সাহিত্য অধ্যয়নৰ ক্ষেত্ৰত নতুন বিষয় তুলনামূলক সাহিত্যৰ সাধাৰণ ধাৰণা প্ৰদান কৰাটো এই পাঠ্যক্ৰমৰ উদ্দেশ্য

২) তুলনামূলক সাহিত্য অধ্যয়নৰ প্ৰয়োজনীয়তাৰ বিষয়ে জনোৱা

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) তুলনামূলক সাহিত্যৰ বিষয়ে সম্যকভাৱে জানিব পাৰিবি।

২) তুলনামূলক সাহিত্যৰ বিকাশৰ স্তৰসমূহৰ বিষয়ে জানিব পাৰিবি।

৩) তুলনামূলক সাহিত্যৰ বিৱৰ্তনৰ ইতিহাসৰ বিষয়ে অৱগত হ'ব।

৪) সাহিত্যৰ মান নিৰ্ণয়ৰ বাবে তুলনামূলক সাহিত্যৰ প্ৰয়োজনীয়তাৰ বিষয়ে আলোচনা কৰিব পাৰিবি।

৫) তুলনামূলক সাহিত্য অধ্যয়নৰ বিভিন্ন পদ্ধতিৰ বিষয়ে অৱগত হ'ব।

পাঠ্যক্ৰমৰ সংখ্যা : C– 9

(ভাৰতীয় আৰ্যভাষা আৰু অসমীয়া ভাষা)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) ভাৰতীয় আৰ্যভাষাৰ ক্ৰমবিকাশৰ ৰূপৰেখা ছাত্ৰছাত্ৰীসকলক জনোৱা।

২) সংস্কৃত , পালি আৰু প্ৰাকৃত ব্যাকৰণৰ বৈশিষ্ট্যসমূহৰ বিষয়ে পৰিচয় হোৱাটো এই পাঠ্যক্ৰমৰ উদ্দেশ্য।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) ভাৰতীয় আৰ্যভাষা বিকাশৰ ধাৰাৰ বিষয়ে জানিবি।

২) ভাৰতীয় আৰ্যভাষাই প্ৰতিনিধিত্ব কৰা বিভিন্ন স্তৰৰ পাঠৰ সতে চিনাকী হ'ব পাৰিবি।

৩) সংস্কৃত পালি আৰু প্ৰাকৃত ভাষাৰ মাজৰ সাদৃশ্য বৈসাদৃশ্য বিষয়ে জানিবি পাৰিবি।

৪) অসমীয়া ভাষাৰ উ□পত্তি সম্বন্দত সবিশেষ জানিবি পাৰিবি।

৫) অসমীয়া ভাষাৰ বিকাশৰ বিভিন্ন স্তৰ বোৰৰ বিষয়ে অৱগত হ'ব।

পাঠ্যক্ৰমৰ সংখ্যা : C-10

(অসমীয়া গদ্যৰ চানেকি)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া গদ্য সাহিত্যৰ উদ্ভৱ তথা বিকাশধাৰা সম্পৰ্কে জনাটো এই পাঠ্যক্ৰমৰ উদ্দেশ্য।

২) অসমীয়া গদ্যসাহিত্যৰ জনক ভট্টদেৱৰ পৰা আৰম্ভ কৰি বৰ্তমানৰ গদ্যসাহিত্যলৈকে ছাত্ৰছাত্ৰীসকলক জনোৱা

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) অসমীয়া গদ্য সাহিত্যৰ কনেদেৰে আৰম্ভণি হ'ল ছাত্ৰছাত্ৰীসকলে জানিবি পাৰিবি।

২) অসমীয়া গদ্যৰ বিকাশৰ স্তৰবোৰ চিনাকী হ'ব।

৩) অৰুনোদই যুগৰ গদ্যৰ বিশেষত্ব জানিবি পাৰিবি।

৪) জোনাকী যুগৰ গদ্যৰ বৈশিষ্ট্য আৰু লেখকসকলৰ বিষয়ে অৱগত হ'ব।

৫) সাম্প্ৰতিকালৰ অসমীয়া গদ্যৰ বিষয়ে জানিবি পাৰিবি।

পঞ্চম ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C-11

(অসমীয়া নাটক)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া নাট্য সাহিত্যৰ ইতিহাস অধ্যয়ন কৰা উদ্দেশ্যে

২) অসমীয়া নাট্য সাহিত্যৰ গতিবিধি লক্ষ্য কৰা

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) অসমীয়া নাটকৰ আৰম্ভণি আৰু বিকাশৰ স্তৰবোৰৰ বিষয়ে জানিবি পাৰিবি।

২) অসমৰ প্ৰাচীন নাট্যধৰ্মী অনুষ্ঠানবোৰৰ বিষয়ে আলোচনা কৰিবি পাৰিবি।

৩) শংকৰদেৱৰ অংকীয়া নাটৰ বিষয়ে জনাৰ উপৰিও ৰুক্মিণী হৰণ নাটৰ সবিশেষ আলোচনা কৰিবি পাৰিবি।

৪) আধুনিক অসমীয়া নাটকৰ বিভিন্ন ধাৰা সম্পৰ্কে আলোচনা কৰিবি পাৰিবি।

৫) নৰ্বাচতি নাটকৰ অধ্যয়নৰ জৰয়িতে সাম্প্ৰতকি নাট্যসাহিত্যৰ গতি প্ৰকৃতিৰ বিষয়ে অৱগত হ'ব।

পাঠ্যক্ৰমৰ সংখ্যা : C-12
(অসমীয়া ভাষাৰ ভাষা বৈজ্ঞানিক অধ্যয়ন)

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) ছাত্ৰছাত্ৰীক অসমীয়া ভাষাৰ ধ্বনিতত্ব, ৰূপতত্ব, বাক্যতত্বৰ পৰিচয় দিয়া

২) ধ্বনিবিজ্ঞানৰ তাত্বিক জ্ঞান প্ৰদান কৰা।

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) অসমীয়া ভাষাৰ শুদ্ধ উচ্চাৰণ কৰিব পাৰিব

২) অসমীয়া ভাষাৰ বিশিষ্ট স্বৰধ্বনিৰ আৰু বিশিষ্ট ব্যঞ্জন ধ্বনিৰ সম্পৰ্কে জানিব পাৰিব

৩) বাগনিদ্ৰয়িৰ জৰয়িতে বিশিষ্ট স্বৰধ্বনি ব্যঞ্জন ধ্বনি সমূহৰ কনেদেৰে শুদ্ধ উচ্চাৰণ কৰিব লাগে সেই সৰ্ম্পকে পুংখানুপুংখভাৱে জানিব পাৰিব।

৪) অসমীয়া ভাষাৰ অবভিজ্য ধ্বনি অক্ষৰ শ্বাসাঘাত সন্ধি সুৰ সৰ্ম্পকে জানিব পাৰিব।

৫) অসমীয়া ভাষাৰ লিংগ বচন কাৰক নৰ্দিষ্টতাবাচক সৰ্গ ক্ৰীয়াৰ গঠন শব্দ সাধন প্ৰক্ৰিয়াৰ বিষয়ে সম্যক জ্ঞান লাভ কৰিব পাৰিব।

পাঠ্যক্ৰমৰ সংখ্যা : DSE-1
অসমীয়া ব্যাকৰণ, অভিধান আৰু জতুৱা প্ৰয়োগ

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া ব্যাকৰণৰ বিবিধ দিশৰ পৰিচয় প্ৰদান

২) অসমীয়া অভিধানৰ সাধাৰণ পৰিচয়

এই পাঠ্যক্ৰমৰ যোগেদি.....

১) অসমীয়া ভাষাৰ শুদ্ধ প্ৰয়োগৰ বাবে শিক্ষা লাভ কৰিব।

২) অসমীয়া ভাষাত জতুৱা ঠাঁচ আৰু খণ্ডবাক্যৰ ব্যৱহাৰৰ বিষয়ে জানিব পাৰিব।

৩) অসমীয়া ব্যাকৰণৰ সাধাৰণ পৰিচয়

৪) অসমীয়া অভিধানৰ সাধাৰণ পৰিচয় জানিব পাৰিব

৫) পৰভিষাৰ সৰ্ন্দভত ছাত্ৰছাত্ৰীয়ে জ্ঞান লাভ কৰিব পাৰিব।

পাঠ্যক্ৰমৰ সংখ্যা : DSE-2
ভাৰতীয় সাহিত্যৰ পৰিচয়

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) ভাৰতীয় সাহিত্যৰ পৰিচয় প্ৰদান

২) ভাৰতীয় সাহিত্যৰ একক ৰূপৰ আভাস দিয়া

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) ভাৰতীয় সাহিত্যৰ উৎপত্তি আৰু বিকাশৰ সবিশেষ

২) ভাৰতীয় সাহত্যিৰ বশৈষ্ট্যিৰ বষিয়ে জানবি পাৰবি।

৩) ভিন্ন ভাষাৰ কবিতাৰ মাজত নিহিত এক্যসূত্ৰৰ বিষয়ে জ্ঞান লাভ কৰিব

৪) ভাৰতীয় ভিন্ন ভাষাৰ গল্পসমূহৰ অধ্যয়ন কৰিব পাৰি

৫) ভাৰতীয় উল্লখেনীয় উপন্যাস আৰু নাটকৰ সংৱাদ লব পাৰবি।

ষষ্ঠ ষন্মাসিক

পাঠ্যক্ৰমৰ সংখ্যা : C-13

অসমীয়া গদ্যৰ চানেকি

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমীয়া গদ্য সাহিত্যৰ গতি-প্ৰকৃতি

২) আধুনিক কালৰ সৃষ্টিশীল গদ্যসাহিত্যৰ বৈবিধ্য আৰু বৈচিত্ৰ্য চিনাকী কৰোৱা

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) আধুনকি কালৰ চুটগিল্পৰ বষিয়বস্তুৰ বচৈত্ৰিতাৰ বষিয়ে জানবি পৰা যাব।

২) আধুনকি গদ্যসাহত্যিৰ গতি-প্ৰকৃতৰি সৰ্ন্দভত আলংচনা কৰবি পাৰবি।

৩) অসমীয়া এতহিাসকি উপন্যাসৰ বষিয়ে জানবি পাৰবি।

৪) অসমীয়া জীৱনী সাহত্যিৰ ধাৰাৰ বষিয়ে জনাৰ লগতে নৰ্বিাচতি জীৱনী সাহত্যিৰ বষিয়ে জানবি পাৰবি।

৫) অসমীয়া আত্মজীৱনীৰ সাহত্যিৰ বষিয়ে জ্ঞান লাভ কৰবি।

পাঠ্যক্ৰমৰ সংখ্যা : C-14

অসমৰ ভাষা আৰু লিপি

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) অসমৰ ভাষা আৰু উপভাষাৰ সাধাৰণ পৰিচয় ছাত্ৰছাত্ৰীসকলক জনোৱা এই পাঠ্যক্ৰমৰ উদ্দেশ্য

২) অসমীয়া ভাষাৰ ভাষাতাত্বিক বৈশিষ্ট্য আৰু আৰ্যভিন্ন উপাদানৰ সামগ্ৰিক পৰিচয় প্ৰদান কৰা

এই পাঠ্যক্ৰম অধ্যয়নৰ জৰিয়তে

১) পৃথৱিীৰ সৰ্ববৃহৎ ভাষা পৰয়িাল ইন্দংো-ইউৰংোপীয় ভাষা পৰয়িালৰ বষিয়ে জানবি পাৰবি।

২) অসমত প্ৰচলতি ভাৰতীয় আৰ্য শাখাৰ ভাষাবোৰৰ পৰিচয় পাব।

৩) অসমত প্ৰচলতি চীন তিব্বতীয় ভাষাসমূহৰ লগত পৰিচিতি হ'ব।

৪) অসমীয়া ভাষাত আৰ্যভিন্ন উপাদানবোৰ কেনেদৰে আদান প্ৰদান হৈছে সেয়া জানিব পাৰিব।

পাঠ্যক্ৰমৰ সংখ্যা : DSE-3

বিশ্ব সাহিত্যৰ পৰিচয়

পাঠ্যক্ৰমৰ উদ্দেশ্য

১) বিশ্বসাহিত্যৰ ধাৰণা

২) বিশ্বসাহিত্য অধ্যয়নৰ

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) বিশ্বসাহিত্যৰ স্বৰূপ উপলব্ধি কৰিব।

২) বিশ্বসাহিত্যৰ সোৱাদ লব পাৰিব।

৩) কালিদাসৰ অভিজ্ঞানম শকুন্তলমৰ আধাৰত সংস্কৃত সাহিত্যৰ বিষয়ে আলোচনা কৰিব পাৰিব।

৪) নিৰ্বাচিত বিদেশী গল্পবোৰৰ মাজত নিহিত ঐক্যসূত্ৰ আৱিষ্কাৰ কৰিব পাৰিব।

৫) নিৰ্বাচিত বিদেশী কবিতাৰ প্ৰাণস্পন্দন অনুভৱ কৰিব পাৰিব।

পাঠ্যক্ৰমৰ সংখ্যা : DSE-4

বিশেষ লেখক

উদ্দেশ্য

১) এজন বিশিষ্ট অসমীয়া লেখকৰ বিষয়ে সবিশেষ জনা

২) লেখকজনৰ সাহিত্যকৃতি আৰু জীৱনৰ বিষয়ে জ্ঞান প্ৰদান

এই পাঠ্যক্ৰম অধ্যয়নৰ যোগেদি

১) লেখকজনৰ সমসাময়িক সময়ৰ পটভূমিৰ বিষয়ে জানিব পাৰিব

২) লেখকৰ সমগ্ৰ সাহিত্য অধ্যয়ন কৰিব পাৰিব।

৩) সাহিত্য লেখনৰ অভিজ্ঞতাৰ বিষয়ে জ্ঞান লাভ কৰিব।

৪) লেখকজনৰ সাহিত্যৰ মহত্ব উপলব্ধি কৰিব পাৰিব।

Programme Outcomes and Course Outcomes of Economics Department

DEPARTMENT OF ECONOMICS
SILAPATHAR COLLEGE

PO: SILAPATHAR – 787059, DIST: DHEMAJI (ASSAM)

NAAC Accredited with CGPA of 2.62 on 15/11/2015 as 'B' Grade

Annexure II

Name of the Course	BA (Honours)
Name of the Department	Economics
Semester	Semester VI
Paper Code	DSE 602
Paper Name	Environmental Economics

SUMMARY OF COURSE OUTCOME:

Introduction:

Environmental economics involves questions of excessive production of pollution by the market or insufficient protection of the natural world due to market failure. Environmental economics will help understand some important and controversial issues – such as climate change policy, nuclear power, recycling policy, and traffic congestion charging.

Objective:

The main objective of environmental economics is to maintain a balance between economic development and environmental quality. In order to achieve it, environmental economists have to explore the various socio-economic possibilities to reduce pollution and uplift the standard of living of the people.

Course Description:

This course introduces students to concepts, methods and policy options in managing the environment using tools of economic analysis. 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 heading of sustainable development. The course will be useful for students aiming towards careers in the government sector, policy analysis, business, journalism and international organisations.

Learning Outcomes:

Upon successful completion of this course students will:

- Have knowledge of the discipline of environmental economics.
- Have a detailed understanding of the key principles and methods of environmental economics.
- Be able to use economic techniques to analyse environmental problems and to assess environmental policies.

(Leela Ram Newar) Head
Associate Professor & HoD Department of Economics
Department of Economics Silapathar College

OFFICE OF THE PRINCIPAL SILAPATHAR COLLEGE, SILAPATHAR Date: Estd 1976

Principal
Silapathar College
Silapathar

Programme Outcomes and Course Outcomes of English Department

SILAPATHAR COLLEGE
DEPARTMENT OF ENGLISH
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COURSE & PROGRAM OUTCOME

Program Specific Outcome (PSOs)

Bachelor of Arts

Program Specific Outcome (PSOs)

Objectives of the course:

1. Students should be conversant with a variety of literary and cultural materials from a variety of historical, geographical, and cultural contexts.
2. Students should be able to read and analyze literary and cultural texts intensively and extensively using critical and theoretical approaches in a variety of contexts.
3. Students should be able to recognize, analyze, interpret, and define critical ideas, values, and themes that exist in literary and cultural works, as well as comprehend how these ideas, values, and themes influence culture and society.
4. By reading primary and secondary materials, students should be able to write analytically in a number of styles, including essays, research papers, reflective writing, and critical reviews.
5. Students should be able to obtain, comprehend, analyze, and synthesize knowledge from a variety of written and electronic sources in an ethical manner.
6. Students should be able to comprehend how to use historical and disciplinary contexts to communicate and interpret human experiences through literary representation.
7. Students should be able to communicate effectively in English in both official and casual settings.
8. Students should be able to try their hand at writing creatively.
9. Students should be able to improve their communication abilities both verbally and nonverbally.
10. Students should be able to pursue careers in a variety of fields.

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Bachelor of Arts & Bachelor of Science (General Course)
Course Outcome
Semester I
CO 1: WRITING SKILLS
Objectives:

1.The goal of this course is to introduce students to communication theory, fundamentals, and tools, as well as to instill in them critical communication skills that should be used in personal, social, and professional relationships.

2. The need of clear and effective communication has grown significantly in the setting of fast globalization and growing acknowledgement of social and cultural diversity. As a result, this course aims to address some of these issues through an interactive form of teaching-learning and a focus on several communication skills dimensions.
3.Some of the areas touched by the course includes- Language of Communication, Various speaking skills such as personal communication, social interaction and communication in professional situation such as interviews, groups discussion and office environments, important reading skills as well as writing skills such as report writing, note-making etc.
Outcomes:
After the completion of the course, the learners shall develop a significant communicative and writing skills. They will also be able to learn to communicate in different environments like interviews, group discussions and office environment. They will also be able to develop several writing skills such as report writing, note-making and essay writing etc.

C0 2: ALTERNATIVE ENGLISH

Objectives:
1. The course introduces very significant Prose Pieces and Short Stories both by the Indian and foreign writers which will enable the readers to know about the various literary and cultural cannon in the contemporary age.
2. The course also serves as an alternative to the students who do not possess the necessary skills to enroll in any of the modern Indian languages offered as part of the undergraduate curriculum as per the syllabus of the university.

Outcomes:
After the completion of the course, the students will receive a brief idea about various literary and cultural cannon in the contemporary age. As the course includes the writing of the authors like – Leo

Tolstoy, R.K. Narayan, Saadat Hasan Manto, M.V.C. Jeffreys and many more, the readers will also be able to derive aesthetic pleasure by reading those Prose and Short Stories.

Bachelor of Arts (English Core)
Course Outcome:

Semester I

CO 1: INDIAN CLASSICAL LITERATURE.

Objectives:

1. This course's goal is to introduce students to the rich cultural heritage of ancient Indian literature, particularly Sanskrit literature.
2. The course introduces various Sanskrit plays penned by Kalidas, and great Indian epics like- the Ramayana, the Mahabharata. With the hope of enlightening the students with the regional Classical Literature, the course also introduces the plays of Srimanta Sankardeva.
3. The course intends to provide the taste of the classical literature that flourished in India and how these master pieces reflect the Indian history and culture.

Outcome

After the successful completion of the course learners will be able to comprehend and appreciate the rich Indian classical literary legacy, as well as its distinct aesthetic ideas, after finishing this course.

CO 2: EUROPEAN CLASSICAL LITERATURE.

Objectives:

1. Classical literature in Europe refers to the works of ancient Greece and Rome. The study of 'ancient Greek literature' entails a study of pre-Christian literature written in Greek by non-Christians throughout the first six centuries of the Christian era.
2. The importance of this course stems from the fact that English literature is significantly influenced by Greek and Roman classics. Whether it's tragedy or comedy, satire or criticism, epic or lyric, the influence of classical literature may plainly be seen in the works of English authors.

Outcome:

After the completion of the course, the learners will be able to have a better understanding of the European Classical Literature. As the classical literature influences the English Literature to a

great extent, thus the course will help the students to grasp the origins of the Western literary paradigm after completing the course.

Semester II

CO 3: INDIAN WRITING IN ENGLISH

Objectives:

1. Indian Writing in English refers to the corpus of works produced by Indian writers who write in English and whose original tongue is one of India's many languages. This course portrays the Indian culture, social values, and even Indian history in an authentic Indian way.
2. The purpose of this course is to introduce students to Indian writing in English from the colonial to postcolonial eras. Identity politics, gender disparities, home, dislocation, and language, among other topics, will be highlighted in order to comprehend the diversity of Indian culture and tradition across spatiality.

Outcomes:

After completing this course, students will be able to appreciate the diversity of Indian customs and traditions, map the intellectual trajectory from pre-independence to post-independence, and get a sense of the progress that Indian writers in English are making, for which they are receiving accolades both at home and abroad.

CO 4: BRIISH POETRY AND DRAMA: 14TH TO 17TH CENTURIES

Objectives:

1. The goal of this course is to introduce students to British poetry and play from Chaucer to Shakespeare. The texts assigned are from the Chaucer's era, the pre-Elizabethan era, and the Elizabethan era.
2. This course emphasizes Shakespeare's works, with a tragedy, comedy, and two sonnets required. The spirit of the Renaissance is captured in Marlowe's play, which puts the Elizabethan age into correct perspective.

Outcomes:

Learners will be able to assess the impact of the European Renaissance on the works of Elizabethan authors, including Shakespeare, after finishing this course.

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Semester III

CO: 5 American Literature

Objectives:

1. The goal of this course is to introduce students to American literature, a topic that, in comparison to the literature of Britain and Continental Europe, is relatively new in its development.
2. The reality or illusion of the Great American Dream, the transcendentalist movement, the history of slavery in the South, the Great Depression, and other issues all serve as important contexts in American history and literature, and this course will make every effort to emphasize these issues as much as possible.

Outcome:

Learners are expected to get a sense of American literature and be able to comprehend the poetics and politics of a literature marked by both liberal and reactionary values.

CO: 6 Popular Literature

Objectives:

1. The term "popular literature" refers to works written for a general readership or that have a huge following. It differs from artistic literature which primarily is intended to entertain. The goal of this course is to familiarize students with popular literature, such as crime thrillers, graphic novels, children's literature, and other genres that purists consider to be "low-brow" and intended for public consumption.
2. The course also emphasizes on the literature that is liked by all the sections of the society which will help the students to distinguish how the popular literature and artistic literature have different literary techniques.

Outcome:

After completing this course, it is hoped that students would be able to recognize the presence of a creative space and process that has the ability to touch readers in ways that high-brow literature cannot due to its tendency to appeal to a narrow audience.

CO 7: BRITISH POETRY AND DRAMA: 17TH AND 18TH CENTURIES.

Objectives:

1. Political events such as the Puritan Interregnum and the Restoration influenced English writing in the seventeenth and eighteenth centuries. This course shall provide a history of all these events in detail.
2. From Elizabethan literature's romantic excesses to literature distinguished by restraint and discipline during 17th and 18th century, students would be able to experience a wide range of emotions that define a period while also separating it from others.

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Outcome:

Learners will be able to comprehend how English theatre and poetry evolved to highlight the necessity of adhering to classical principles and forms once they have completed this course.

Semester IV

CO: 8 BRITISH LITERATURE: 18TH CENTRUTY

Objective:

1. This course continues with eighteenth-century literature and includes a variety of genres. The eighteenth century saw the emergence of new techniques of creative expression, which is provided to the learners through this course.
2. Gender issues were also given a lot of weight in this era. This age has been dubbed the Age of Enlightenment, because 'reason' has become the hub from which human activities and cognition emerge. As a result of the positivist ethos that prevailed at this time, a fundamental philosophical shift occurred. Thus, this course intends to sum up all these literary characteristics that took place during this period.

Outcome:

Learners will be able to understand the spirit of the era, as well as the literature that embodies that spirit, after completing this course.

CO 9: BRITISH ROMANTIC LITERATURE

Objective:

1. The course stives to present it readers with all the sprit of the Romantic Age. The age shows a great transition as the literature of this period was very light and liberal as compared to its preceding age, which is discussed in detail in this course.
2. The highly creative, rhetorical, emotive, visionary, philosophical, epical, sensuous components of the works, especially in poetry, gave considerable heft to this literature praising Nature in all its beauty, grandeur, and terror during this age. As the readers continue with this course, they will be able to comprehend how literature depicts nature at its fullest beauty during this age.
3. The age also introduces the student with a new genre "The Gothic Fiction" which is developed during this period.

Outcome:

It is intended that the students would be able to recognize and understand the qualities of literature that is marked by emotion, passion, love for nature, and the use of imagination, among other things, in order to create a work of art that will be a source of joy for all time.

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CO10: BRITISH LITERATURE: 19TH CENTRURY

Objective:

1. The nineteenth century is representative of a spiritual crisis that had developed as a result of the tremendous influence of scientific ideology. Utilitarian ideas, which encourage personal advancement at the expense of societal duty, were ingrained in people's daily lives. Thus, the course provides details of all these changes that took place in the society during this age.

2. This course portrays the attitude of the age that 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.
3. The course also strives to educate its students about ground-breaking theories proposed by Darwin, Marx, and Freud, which have had such an impact on people's cognitive processes that their impacts may still be felt today.

Outcome:

The learners after the completion of the course will be in a position to appreciate the philosophical shift that came about due to the crises of faith linked to the culture of positivism that displayed its full presence during the Victorian period. It is also intended that they will be able to grasp and analyze notions such as utilitarianism, surplus value, Victorian prudishness, and survival of the fittest, among others.

Semester V

CO 11: WOMEN'S WRITING

Objectives:

1. The dominance of men over women is unquestionably the truest reality about human society. In many aspects of life, patriarchy thinks that men are superior to women. As a result, women were denied the right to express themselves publicly or in writing. The fact that women were forced to use male pseudonyms in order to attract readers is only one example of how patriarchal ideology has a grasp on society as a whole. Women find it difficult to express their opinions because 'phallocentric' ideology has effectively silenced them. Thus, the course thrives to break this notion regarding women and introduces various texts written by women which depict there dominated status and talks about their emancipation.

2. The goal of this course is to introduce students to women's writing in order to highlight how power works to keep women from expressing their opinions. Apart from that, the course will attempt to place women's writing in a realm that transcends or subverts the male literary tradition in a variety of ways.

Outcome:
After finishing this course, it is hoped that the students would be more aware of gender-related issues and will be able to see things from the perspective of the Other.

CO 12: BRITISH LITERATURE: THE EARLY 20TH CENTURY

Objectives:
1. Early twentieth-century British writing was marked by experimentation on both a formal and a content level. The imperialistic World War I had such an impact on people's minds across Europe that they began to exhibit numerous neurotic symptoms. This course tries to display all these characteristics through the literature produced during the age.
2. The study also explores how Capitalism, by its dehumanized processes and practices, created alienated and disenfranchised people, resulting in a philosophical change contained in symbolism, existentialism, cubism, Dadaism, expressionism, and nihilism.

Outcome:
This course is expected to benefit students by introducing them to ideas such as stream-of-consciousness, Oedipus complex, avant-garde, gyre, and interior monologue, among others.

CO 13: DISCIPLINE SPECIFIC ELECTIVE (DSE) COURSE:

DSE 1: MODERN INDIAN WRITING IN ENGLISH TRANSLATION

Objective:
This course is designed to introduce students to the works of Indian writers who work on regional literature from north to south, west to east.

Outcome:

After finishing this course, students should be able to appreciate India's literature, which is available in a variety of regional languages. They'd be able to comprehend the political, social, and economic issues that influence people across cultures and locations.

DSE 2: LITERATURE OF THE INDIAN DIASPORA

Objectives:
The goal of this course is to introduce students to Indian diaspora literature while also addressing the challenges that plague writers who have migrated abroad despite having Indian ancestry and emotional makeup.

Outcomes:
Learners should be able to comprehend the complexities of living as hyphenated identities in a space other than their 'home' after finishing this course. They'll have a greater understanding of the postcolonial predicament of identities stuck between the desire for a better life overseas and the recognition of the futility of such rootless mobility.

DSE 3: LITERARY CRITICISM

Objectives:
From the Romantic period to the present, this course provides an overview of significant developments in literary criticism. The critical trajectory includes Wordsworth and Coleridge's Romantic theory of poetry, Woolf and Eliot's modernist poetics, Richards and Cleanth Brooks' New Criticism, and an introduction to newer tendencies in criticism, particularly feminist criticism.

Outcomes:
By instilling the values of what constitutes excellent and terrible literature, criticism allows one to comprehend, appreciate, and evaluate literary texts. Learners should be able to comprehend the texts in terms of their settings, which could be solely aesthetic, historical, literary, or political. They would be able to read texts using the philosophies of several reading procedures.

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DSE 4: WORLD LITERATURES

Objectives:

World literature can refer to the aggregate total of all of the world's national literatures, although it usually refers to the distribution of works outside of their country of origin. It is significant in that it allows students to understand the structure and substance of texts from various spatialities.

Outcomes:

The student will be able to identify and analyze a variety of major works of world literature by the end of the course; compare and contrast writing styles and generic forms from different periods and cultures; identify major themes of representative poetic and fictional works; and trace the influence of one literature on another.

Semester VI

CO 14: MODERN EUROPEAN DRAMA

Objectives:

1. Drama was forced to shut down during the Puritan Interregnum, but it was revived in the twentieth century. Despite the fact that the resurgence began during the Restoration Period, it waned during the Romantic and Victorian periods. The paper will provide its readers with a general idea about the decline of the drama during the Puritan age and how it again developed during the restoration period.
2. The course will also help its readers to read Europe's best modern plays against the backdrop of the period's defining events.

Outcomes:

It is envisaged that after finishing this course, learners will be in a comfortable position to understand Modern drama and its associated problems.

CO 15: POSTCOLONIAL LITERATURES

Objectives:

1. Learners will be introduced to postcolonial literature in this course. The importance of postcolonial studies in a globalized society where colonialism has influenced the lives of more than three-quarters of the globe's population cannot be overstated.
2. The course is primarily concerned with literary texts and literary analysis. The literary works chosen are English-language publications from countries that were once colonized, including

those that are now referred to as "the Commonwealth." We will use postcolonial theory to critically engage with texts within a postcolonial framework in this course.

3. Language, identity, point of view, displacement, physical and mental Colonization, Decolonization, Nationalism, Fundamentalism, Globalization and Diaspora, Colonial Legacy, Gender and Sexuality, Regionalism, Ethnicity, Genocide, Race, and so on will be discussed in the course, as well as how such issues are expressed in literary texts.

Outcome:

By the end of the course, students should be familiar with both the texts and the circumstances of the time period.

CO 16: DISCIPLINE SPECIFIC ELECTIVE (DSE) COURSE:

DSE 5: LITERARY THEORY

Objectives:

Literary theory is a discipline that is currently in high demand among academics. It entails employing discourse/s to read texts. These discourses have political, social, economic, gendered, and cultural values, and reading literature through such discursive lenses leads to various and heterogeneous interpretations of texts. The goal of this course is to introduce students to four important discourses or theories which includes Marxism, Feminism, Poststructuralism, and Postcolonial Studies.

Outcomes:

By the end of this course, students will be able to identify some of the most important texts in discourses about class, gender, power, language, race, identity, and so on. They will be able to connect their literary reading to such ideas, which will help them with their interpretative skills.

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DSE 6: LITERATURE AND CINEMA

Objectives:
This course examines the connections between film and literature, focusing on works that are linked by genre, topic, and style across the two mediums. Its goal is to improve enjoyment of important films and literary narratives.

Outcomes:
The students should be able to recognize the factors that go into converting a text to film. They will show their ability to analyze visual literacy and read filmic texts. Students will be able to debate and evaluate films as cultural reflections and source texts in a variety of ways.

DSE 7: PARTITION LITERATURE

Objectives:
The Partition of India was possibly the most heinous occurrence in the history of the subcontinent in the twentieth century. Thousands of innocent people were killed, millions were displaced, and massive migrations took occurred across the partitioned nation (India and Pakistan). It's critical not only to comprehend the backdrop and reasons for the partition, but also to examine the consequences for the people involved. Historical accounts may not be sufficient; imaginative fiction can assist fill in the gaps in our understanding of how these events affected people's lives emotionally. As a result, the goal of this course is to read literature that encapsulates the spirit of the age. Film screenings will also be held, as cinema can help depict both the tragedy and the consequences of these events.

Outcomes:
After completing this course, students will be able to realize the gravity of the partition tragedy and understand how the trauma linked with it continues to affect the victims' daily lives and activities even today. The validity of literature in reflecting the truth of the human condition tends to be proven by historical fact transmuted by imagination. This is something that the course will try to emphasize.

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DSE 8: TRAVEL WRITING

Objectives:

Nowadays, travel writing is a popular topic of study. It is concerned with travel writings that describe the ways of a foreign culture, which may be ethnocentric in nature or reverse ethnocentrism. The goal of this course is to read narratives of travellers' journeys from the past to the present. It includes works by notable travel writers from the Middle Ages to the present day. The course will strive to highlight the genre's problems, such as claims to the authenticity of the narrated events, the role of imagination, the ethnocentric lens, the element of awe, and so on.

Outcomes:

The students would be able to comprehend the cultural dynamics of narratives produced by travellers. They'll be able to recognize the differences in representation based on gender, religion, and ethnicity. The students will recognize that travel narratives are usually ideological in nature, and so can only be considered representations rather than truth.

CO 17: ADD ON COURSE IN SPOKEN ENGLISH AND PERSONALITY DEVELOPMENT.

Objective:

The objective of the course is to help learners know how to communicate with people using English language and to develop their writing skills most effectively as well as to have the beginners of English language in achieving the understanding of the language and enable them to cope with real life situation. The course will also help the students in personality development.

Outcomes:

After the completion of the course, students will be able to communicate with people in effective ways and will also develop a good writing skill. The learners will be able to equip themselves for professional situation such as interviews, groups discussion and office environments, important reading skills as well as writing skills such as report writing, note-making etc.

Programme Outcomes and Course Outcomes of Education Department

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Course outcomes for B.A Education Honours, Generic Elective and Discipline Specific Elective

Semester-1(Honours)

Course-1: Philosophical Foundation of Education.

Course Objectives:

I. To enlighten the knowledge of the students about different aspects of Philosophy of Education I.e. Indian and Western Philosophies and their influence in education.
II. To help the Students to know about concepts, aims, functions and types of education.
III. To introduce the students with the concepts of curriculum and Co-curricular activities.

Expected Course Outcome: On completion of the course, the studentswill 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 andtheir influence in Education
iv. Appraise the contribution of the given philosophers in the domain of education

Course-2: Sociological Foundation of Education.

Course Objectives:

I. To familiarize the students about different sociological aspects of education and the role of education in social change
II. To help the students to know about Political ideologies and their bearing on Education.

Expected Course Outcome: On completion of the course, the studentswill be able to:

I. Explain the concept, approaches and theories of educational sociology
II. Illustrate Social Aspects, Social Processes and role of Education
III. Explain the role of Education in Social Change and Development
IV. Describe various Social Groups and their Education
V. Explain different Political Ideologies and their bearings on Education

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GE-1: Guidance and Counselling

Course objectives:

i. To help the students to know about nature, purpose and functions of Guidance and Counselling.
ii. To make the students familiarize with the different types and areas of guidance and Counselling.

Expected Course Outcome: On completion of the course, the studentswill be able to:

i. Define the meaning nature, purpose and scope of guidance andcounselling.
ii. Describe the characteristics and functions of Guidance and counselling.
iii. State the basic principles of guidance and counselling.
iv. Explain the types and areas of guidance and counselling.

Semester- 2 Honours
Course -3: Psychological Foundations of Education
Course Objectives:

i. To help the Students to understand about different Psychological aspects of education.
ii. To know about concepts and theories of Personality andthe measure of mental health in Education.

Expected Course Outcome: On completion of the course, the studentswill be able to:

i. Explain the concept, nature, scope and uses of psychology in Education.
ii. Explain the influence of growth and development in education.
iii. Describe the meaning, concept, variables, types and theories of learning.
iv. Discuss the concept and theories of intelligence and creativity.
v. Explain the meaning, concept, factors and theories of personality.
vi. Describe the concepts of mental health and mental hygiene, measures of mental health in school

Course-4: Educational Administration and Management

Course Objectives:

i. To enlighten the students with concept and types of management and modern trends of Educational Management.
ii. To help the students to know about different aspects of management that is related to educational institutions.

Expected Course Outcomes: On completion of the course, learners willbe able to:

i. Explain the concept of Educational Management.
ii. Describe the types of management and modern trends of Educational management.
iii. Define the concept of educational leadership.
iv. Explain the principles of educational leadership.
v. Describe the styles of leadership and its implication in educational leadership.
vi. Define the concept of educational planning and its importance.
vii. Analyze the role and importance of educational supervision.
viii. Suggest measures to ensure quality in educational management.

GE-2: Gender and Education

Course Objectives:

i. To help the Students learn about Gender and its related issues.
ii. To help the Students to analyze the laws and policies related to Gender equality.

Expected Course Outcome: On completion of the course, the studentswill be able to:

i. Explain the meaning and nature of gender and its related terms.
ii. Describe the gender biases and gender inequality in family, school andsociety.
iii. Describe the gender issues related to school education.
iv. Analyse the laws and policies related to gender equality.

Semester-3 Honours

Course 5: Great Educators and Educational Thought

Course Objectives:

i. To familiarize the students with different Modern and Ancient educators andtheir educational thought and alternative thought to present education.

Expected Learning Outcomes: After completion of the Course, thestudents will be able to-

i. Appraise the contribution of the given philosophers in the domain of education.
ii. Justify the relevance of the educational thought of the given philosophers.

Course 6: Educational Measurement and Evaluation

Course Objectives:

i. To comprehend the need and types of Measurement and evaluation in Education.
ii. To make the students understand about Psychological testand their characteristics and process of construction.
iii. To help the students to use statistics in Measurement and evaluation in Education.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Explain the meaning, nature, scope, need and types of measurement and evaluation in education.
ii. Describe the meaning of psychological tests, their characteristics and process of construction.
iii. Describe some specific tools to measure achievement, intelligence, personality and aptitude.
iv. Describe the meaning and nature of different statistical measures.
v. Use statistics in measurement and evaluation in education.

Course 7: Experimental Psychology

Course Objectives:

i. To help the students familiarize with the concepts needs, conduct and report of psychological experiments.
ii. To give the students a brief overview of the historical background of different psychological experiments and encourages them to conduct the experiments in psychological laboratory.

Expected Course Outcome: On completion of the course, thestudents 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 personalitytesting and its related practical.
vii. State the concept of intelligence, historical background of intelligencetesting and its related practical.

GE -3: Mental health Education

Course Objectives:

i. To make the students aware about Mental health and Hygiene.
ii. To familiarize with the factors affecting mental health and mental health issues.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Understand the fundamentals of mental health and hygiene.
ii. Explain the factors affecting mental health and adjustment mechanisms.
iii. Describe yoga for mental health.
iv. To acquaint with mental health and agencies of Education.

Semester 4: Honours

Course 8: Education in Pre-Independent India

i. To give a brief overview of the history of education in Vedic, Medieval and British period.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Recount 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.
iv. Evaluate the education system during British period with special emphasis onthe commissions and committees.

Course 9: Techniques of teaching

Course Objectives:

i. To impart a comprehensive idea about teaching learning process and itsrelated aspect.
ii. To help the students to know about lessons plan, teaching skills, methods and approaches of teaching.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Explain the meaning and nature of teaching.
ii. Describe the principles of teaching and learning.
iii. Describe the role of teacher at different phases of teaching.
iv. Explain the importance of planning lessons in teaching-learning process.
v. Describe the concept of teaching skills and the stages of microteaching cycle.
vi. State the objectives of teaching different subjects in Elementary and Secondary levels.
vii. Describe different methods and approaches of teaching.

Course10. Educational Technology

Course Objectives:

i. To familiarize the students with the components of educational technologyand ICT in teaching learning.
ii. To encourage the students to demonstrate the skills of effective communication.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Describe the concept, nature and components of Educational Technology.
ii. Distinguish between Educational technology and Instructional Technology
iii. Apply ICT in teaching learning.
iv. Describe the concept, components and characteristics of communication.
v. Demonstrate the skills of effective communication.
vi. Apply Models of teaching, Personalized system of Instruction, Programmed learning in teaching learning.

GE-5: Economics of Education

Course Objectives:

i. To help the Students to understand the concept, importance, historical development of economics of education.
ii. To familiarize the students with the concepts of investment in education,human capital formation, education finances and Educational planning.

Expected Course Outcomes: On completion of the course,learners will be able to:

i. Describe the meaning, scope and importance of Economics of Education.
ii. Define and illustrate the concepts used in economics of Education.
iii. Examine the historical development of Economics of Education.
iv. Explain the concept of Education as a good, demand and supply of education,Utility of Education etc.
v. Explain the concept of investment in education, return on investment in education, education as production process etc.
vi. Explain the concepts of different types of Educational cost.
vii. Examine the concepts of human capital formation, Education financing, Educational Planning etc.

Semester-5 Honours:

Course –11: Education in Post Independent India

Course Objectives:

i. To help the students to know about the educational scenario at the time of independence with special emphasis on the commissions and committees.
ii. To acquaint the students with the recent developments in Indian education.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Re-count the Educational Scenario at the time of Independence.
ii. Elaborate the status of education during post independence period withspecial emphasis on the commissions and committees.
iii. Acquaint with the recent Educational Development in India.

Course-12: Education in World Perspective **Course Objectives:**

i. To enlighten the students with the concepts and purpose of comparative education and the factors influencing in national system of education.
ii. To help the Students to understand the education system of different countrieswith special reference to UK, USA, Japan and India.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Explain the meaning and definition, nature, scope and purpose of comparative education.
ii. Describe the factors influencing in national system of education.
iii. Describe the methods of comparative education.
iv. Explain the organization, administration, objectives and examination systemsof the countries.
v. Describe the vocational and teacher education of different countries, speciallyUK, USA, India and Japan.
vi. Explain the open education in world perspective.

DSE- 1: Guidance and Counselling

Course objectives:

i. To helps the students to know about nature, purpose and functions of guidance and counselling.
ii. To make the students familiarize with the different types and areas of guidance and counselling.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Define the meaning nature, purpose and scope of guidance and counselling.
ii. Describe the characteristics and functions of guidance and counselling.
iii. State the basic principles of guidance and counselling.
iv. Explain the types and areas of guidance and counselling.

DSE-4: Mental Health Education

Course Objectives:

i. To make the students aware about mental health and hygiene.
ii. To familiarize with the factors affecting mental health and mental health issues.

Expected Course Outcome: On completion of the course, thestudents will be able to:

i. Understand the fundamentals of mental health and hygiene.
ii. Explain the factors affecting mental health and adjustment mechanisms.
iii. Describe yoga for mental health.
iv. To acquaint with mental health and agencies of Education.

Programme Outcomes and Course Outcomes of History Department

DEPARTMENT OF HISTORY
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Program Specific Outcomes

(PSOs of B.A. History

- ***Understand*** background of our religion, customs, institutions, administration and so on.
- ***Understand*** the present existing social, political, religious and economic conditions of the people.
- ***Analyse*** relationship between the past and the present events.
- Develop ***practical skills*** which is helpful in the study and understanding of historical events for example:

(a) Draw historical maps, charts, diagrams etc.

(b) Prepare historical models, tools etc.

- Develop ***interests*** in the study of history and activities relating to history, for example:

(a) Collect ancient arts, old coins and other historical materials

(b) Participate in historical drama and historical occasions

(c) Visit places of historical interests, archaeological sites, museums and archives

(d) Read historical documents, maps, charts etc.

(e) Play active roles in activities of the historical organizations and associations

(f) Write articles on historical topics.

- The study of history helps to impart moral education.
- History installs the feeling of patriotism in the hearts of the students.
- Students will understand of time and chronology and be able to investigate how people lived in varioussocieties from the past.
- They will learn about Indian History, World History and Europe History, History of Japan, China GreatBritain etc.
- Students will be familiar with the origin, evolution and core values of the subject which can be put to usein their day to day life. They will be able to earn interest in the working of public machinery with emphasis on the need of the subject in changing times.

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- Students will become vigilant, enlightened citizens and making them active participants of administration.
- They will also acquire the skills of critical analysis. Students will be acquainted with the basic concepts ofthe discipline which will make them politically aware.
- This is the most appropriate combination for the public service examination.

Course Outcomes (Cos)

(A) BA History (Core)

Semester 1:

CORE- 1: HISTORY OF INDIA- I

Course Code: HISHC101

Objectives: The objective of this course is to analyze the various source materials for the reconstruction ofAncient Indian History and the approaches of historical reconstruction.

Outcome: After completing the course, the students will be acquainted with the various ancient cultures, thetechnological, economic, political and religious development of the period concerned.

CORE-2: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD

Course Code: HISHC102

Objectives: 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.

Outcome: After completing the course the students shall be able to know and learn the history of evolution ofhuman being and gradual settlement as well as the culture of Greece.

Semester 2:

CORE-3: HISTORY OF INDIA II

Course Code: HISHC103

Land grants, land rights and peasantry, urban decline and religious traditions of early India.

CORE-4: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD

Course Code: HISHC104

Objectives: The learners will be acquainted with the Roman Empire, slave society, the cultural and trade. Thelearners will be acquainted with the crisis and disintegration of the Roman Empire.

Outcome: Students will understand the history of Roman empire as well as able to know the economic development in Europe from 7th to 14th centuries covering production, technological developments, growth oftowns and trade and feudal crisis.

Se
mester 3CORE-5: HISTORY OF INDIA
III (c. 750 -1206)

Course Code: HISHC105

Objectives:

The students will acquire knowledge about the sources for the reconstruction of early medieval Indian history.

Outcome: After the completion of the course students shall be able to gain knowledge regarding political structure and social and religious institutions, the agrarian structure and social change, and about trade andcommerce, guilds and process of urbanization.

CORE-6: RISE OF THE MODERN WEST – I

Course Code: HISHC106

Objectives: The students will be acquainted with the transition from feudalism to capitalism, the voyages tothe new world, the Renaissance.

Outcome: After the completion of the course students shall be able to know the Religious Reformation, the16th century Economic Developments and the emergence of European state system.

CORE-7: HISTORY OF INDIA IV (c.1206 – 1550)
Course Code: HISHC107
Objectives: The learners will gather information regarding
(i) The sources, vernacular histories and epigraphy

(ii) The various dynasties ruling Delhi Emergence of Bahmani kingdom and Vijaynagara Empire

Outcome: After the completion of the course students shall be able to know the social and economicdevelopments, the religion, society and culture during the late medieval India.

Semes

ter 4 CORE-8: RISE OF THE MODERN WEST – II

Course Code: HISHC108

Objectives: This paper will help the students to know about the 17th century European crisis, the EnglishRevolution.

Outcomes: After the completion of the course students shall be able to know scientific development from15th to 17th century, growth of mercantilism end of Absolute Monarchy and growth of Parliamentary Democracy, the American and Industrial Revolution.

CORE-9: HISTORY OF INDIA V (c. 1550 – 1605)

Course Code: HISHC109

Objectives: The students will have information regarding the Persian sources and vernacular literarytraditions.

Outcomes: After the completion of the course students shall be able to know the growth and consolidation ofthe Mughal Empire Mughal policies in the North West Frontier and the Deccan, the land rights and revenue system, agriculture, trade under the Mughals Political and religious ideas of the period concerned.

CORE-10: HISTORY OF INDIA VI (c. 1605 – 1750)

Course Code: HISHC1010

Objectives: The learners will have an idea about the various sources and historiography of the Mughal period.

Outcomes: After the completion of the course students shall be able to know expansion of the Mughal rule,the Sufi orders Auragzeb's religious policy, religious institutions, decline of the Mughal Empire, growth of regional polities and state formation under the Rajputs, the Marathas, 18th Century Debate, trade, craft, monetary and market system, urban centres and Indian Ocean trade network

CORE-11: HISTORY OF Modern Europe – I (c. 1780 – 1939)

Course Code: HISHC1011

Objectives: The objective of this course is to help the students to be acquainted with the various factors thatled to the French Revolution of 1789 The Art and Culture of the Revolution.

Outcome: After the completion of the course students shall be able to know the Restoration of royal dynasties,the radical movements, the evolution of social classes, Industrialization, the First World War and Administrative Reorganization in Italy and Germany.

CORE-12: HISTORY OF INDIA VII (c. 1750 – 1857)

Course Code:
HISHC1012
Objectives:

The Paper tries to examine the transition of India into a Colonial domain of the British.

Outcomes: After the completion of the course students shall be able to know that this transition was notunilinear as the Colonial state had to face resistance from the natives.

Semest
er 6 CORE-13: HISTORY OF INDIA VIII
(c. 1857 – 1950)

Course Code: HISHC1013

Objectives: The paper will endeavour to highlight the growth of Indian Nationalism and the NationalMovement for Freedom.

Outcomes: After the completion of the course students shall be able to know that the responses of the varioussections of the people. They will also know the initial transition from the Colonial to the Post-Colonial era.

CORE-14: HISTORY OF MODERN EUROPE II (c. 1780 -1939)

Course Code: HISHC1014

Objectives: The Objective of this Course is to acquaint the Students with Liberal Democracy, Working ClassMovements and Socialism in the 19th and 20th Centuries.

Outcomes: After the completion of the course students shall be able to know the crisis of Feudalism in Russiaand Experiments in Socialism, War and Crisis: c. 1880-1939 and Post 1919 political development, Cultural and Intellectual Developments since c. 1850.

(A) BA History Generic Elective (Interdisciplinary Any Four)

CORE-1: HISTORY OF ASSAM: 1228 –1826

Objectives: 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.

Outcomes: After the completion of the course students shall be able to know the major stages of developmentsin the political, social and cultural history of the state during the most important formative period.

Semester 2

CORE2: HISTORY OF INDIA FROM THE EARLIEST TIMES TO 1526

Objectives: The objective of this paper is to acquaint the students with the general outline of the history ofIndia from the known earliest times to the coming of the Mughals to India in the first quarter of the 16th century.

Outcomes: After the completion of the course students shall be able to get a comprehensive idea of thedevelopments in all spheres of life during this period.

Semester

CORE-3: HISTORY OF INDIA: 1526 – 1947

Objectives: This paper aims to acquaint the students with the general course of events in the field of political,social, cultural and economic affairs in India from the foundation of the Mughal Empire in 1526 till Independence in 1947.

Outcomes: After the completion of the course students shall be able to know Political Conditions in NorthernIndia in the beginning of the 16th century, British Conquests of India –British occupation of Bengal, Anglo- French rivalry-the Battle of Plassey and its effects.

Semester 4 (any one)

HISGE 4.1: HISTORY OF EUROPE: 1453-1815

Objectives: The objective of this paper is to acquaint the students with the major developments in Europeanpolitico-economic scenario since the Renaissance till the end of the French Revolution.

Outcome: After the completion of the course students shall be able to know renaissance, reformation, thirtyyears war and colonial expansion.

HISGE 4.2: History of Modern Assam (1826-1947)

Objectives: This course intends to acquaint the students with Assam History from Yandaboo treaty to India'sIndependence.

Outcome: After the completion of the course students shall be able to familiarize with political condition in Assam on the eve of the British rule. It also attempts to bring the pupils to the understanding of the social andeconomic conflicts like Peasant uprising and role of Assam in freedom struggle.

(A) <u>BA History Discipline Specific Elective</u>

Semester 5 CORE-1: EARLY AND MEDIEVAL ASSAM TILL 1826

Objectives: The objective of this paper is to give a general outline of the history of Assam from the 13thcentury to the occupation of Assam by the English East India Company

Outcome: After the completion of the course students shall be able to acquaint with major stages of developments in the political, social and cultural history of the state during the most important formativeperiod.

CORE-2: HISTORY OF MODERN ASSAM: 1826 –1947

Objectives: The course aims at acquainting the students with the socio-political and economic developmentsin Assam.

Outcome: After the completion of the course students shall be able to understand the growth of Nationalismand the role of the Provinces in the National Movement for independence.

Semester 6

(Any Two)CORE-3: Social and Economic History of Assam

Objectives: The objective of this course is to acquaint the students with the development of Caste, SocialClasses and Occupational Groups in Ancient Assam, the religion Beliefs and Practice.

Outcome: After the completion of the course students shall be able to understand land grant, trade, Society, the Neo-Vaishnavite Movement Patriarchy, *Satra* Institutions, Agriculture and Trade in Medieval Assam, theGrowth of Modern Education and role of the Missionaries, Middle Class, Agriculture, Tea Industry and Transport System in Colonial Assam.

CORE-4: Historiography

Objectives: This course aims to introduce the learners to important issues related to historical method including significant, historical trends and issues related with the historians craft

Outcome: After the completion of the course students shall be able to understand Evolution of Historiography,Renaissance to Enlightenment Historiography and Development of History Writing in India in Modern Period.

CORE-5: HISTORY OF THE UNITED STATES OF AMERICA (c.1776-1945)

Objectives: This Course will give an account of history of America and its Colonization and Settlement

Outcome: After the completion of the course students shall be able to understand the American War of Independence , the Features of Constitution, the rule of Federalists and Republicans, Monroe Doctrine, theCivil War, Industrialization, Labour Movements, USA in World War I and II.

(A) Ability Enhancement Course (AEC) (Any Two, Two Credits)

CORE-1: Museums and Archives in India

Objectives: It is an introductory course and aims to familiarize students with various aspects of museums andarchives. The purpose of this course is to introduce, examine and understand the major concepts, principles, functions and operations in the field of museums and archives.

Outcome: It will enable students to understand its overall development as well as theoretical issues and principles of their management, administration and practical application. The course will help students to gainpractical experience and will be project based.

CORE-2: Oral History

Objectives: The purpose of this course is to introduce students to the theories, methods and ethics of oralhistory and its significance to the historical literature

Outcome: After the completion of the course students shall be able to understand the tools available forhistory writing beyond static sources

CORE-03: Tourism in Assam

Objectives: Chief aim is to understand the tourism potentiality of Assam.

Outcome: After the completion of the course students shall be able to understand that tourism industry has occupied an important place in the globalised world economy. In Indian Context, Assam has great potentialityfor tourism due to its geographical and ethnological diversities.

(A) Skill Enhancement Courses (SEC) (Any Two, Two Credits)
CORE-1: Museums and Archives in India

Objectives: To understand the major concepts, principles, functions and operations in the field of museumsand archives.

Outcome: After the completion of the course students shall be able to understand its overall development aswell as theoretical issues and principles of their management, administration and practical application. The course will help students to gain practical experience and will be project based.

CORE-2: Oral History

Objectives: The purpose of this course is to introduce students to the theories, methods and ethics of oralhistory and its significance to the historical literature.

Outcome: After the completion of the course students shall be able to understand the tools available forhistory writing beyond static sources.

CORE-3: Tourism in Assam

Objectives: The chief aim is to understand the tourism potentiality of Assam.

Outcome: After the completion of the course students shall be able to understand that tourism industry has occupied an important place in the globalised world economy. In Indian Context, Assam has great potentialityfor tourism due to its geographical and ethnological diversities

Programme Outcomes and Course Outcomes of Philosophy Department

DEPARTMENT OF PHILOSOPHY
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PROGRAMME OUTCOME/COURSE OUTCOME

B.A. CBCS SYLLABUS IN PHILOSOPHY

SEMESTER – 1

C1: INDIAN PHILOSOPHY

Objectives: This paper intends to acquaint the students with the basic problems ofepistemology and metaphysics in Classical Indian Philosophy.

1. This course helps the students to have a close acquaintance with the important concepts ofIndian Philosophy.
2. To aware students about Indian philosophical tradition and to promote the Indian way oflife.
3. The students are introduced with Upanishadic concepts like doctrine of the Self and Critique of Rituals.

C2: LOGIC

Objectives: This paper aims at acquainting the students with logical reasoning andtesting of them in Aristotelian and Modern Symbolic Logic.

1. This course helps the students to develop an understanding of the basicconcepts of logic.
2. To develop skills in correct reasoning or argumentation.
3. To expose students to various logical developments from Aristotelian Logic to modern Symbolic Logic.

GE-1: INTRODUCTION TO PHILOSOPHY

Objectives: This paper attempts to acquaint the students with basic ideas ofphilosophy concerning theories and categories of knowledge and truth.

1. The students are introduced with the basic concept and problems ofWestern philosophy.
2. To understand the empiricist and rationalist uprising in philosophy.

SEMESTER- 2

C3: ANCIENT GREEK PHILOSOPHY

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Objectives: This paper intends to acquaint students with the problems of epistemology and metaphysics of Greek Philosophy.

1. This course introduced a comprehension of early Greek tradition.
2. Students will introduce with the Pre-Socratic, Platonic and Aristotelian conception of epistemology, ethics, causation, theory of ideas, theory of forms and matters and etc in Greek philosophy.

C4: INDIAN LOGIC

Objectives: This paper attempts to acquaint students with the developmentof critical understanding of Indian Logic.

1. Students will acquire the knowledge regarding basic elements of Indianlogic.
2. They will understand the difference between Nyaya Anumana with Aristotelian Syllogism.

GE 2: INTRODUCTION TO LOGIC

Objectives: This paper attempts to make the students familiar with the basic ideas of Aristotelian and Symbolic logic

1. Students will acquire knowledge about rational thinking.
2. Students also learn difference between truth and validity, deductive and inductive reasoning.

SEMESTER-3

C5: MODERN WESTERN PHILOSOPHY

Objectives: This paper attempts to introduce students with the problems of ModernWestern Philosophy and to develop systematic and critical understanding.

1. Students will introduce with fundamental problems of the Modern Western Philosophy
2. Ability to see the arguments of modern western philosophers and to understand philosophical problems of our own times.

C6: INDIAN ETHICS

Objectives: This paper intends to acquaint students with the basic ethical concepts ofIndian Philosophy and develop critical thinking

1. To introduce the notion of the Ultimate aims of our lives, Purushartha in Indian context.
2. To illustrate the concept of Dharma in Indian ethics, this does not mean religion butmeans duty which has its different forms.
3. To introduce the students with the enlightened form of Buddhist, Carvaka and JainaEthics

C7: WESTERN ETHICS

Objectives: This paper intends to introduce students with different ethical concepts ofWestern Philosophy and to develop critical understanding

1. Ethical thinking which enables student to develop ability for moral reasoning
2. The course introduces the moral concepts of good and bad, right and wrong. It helps toform a strong foundation of character and personality.
3. Development of moral consciousness that enables the students to become completehuman beings and responsible citizens.

GE-3: FUNDAMENTALS OF INDIAN PHILOSOPHY

Objectives: This paper intends to acquaint the students with the basic problems of Epistemology and Metaphysics in Classical Indian Philosophy.

1. This course helps the students to have a close acquaintance with the major issuesand important concepts of Indian Philosophy.
2. Make students gain familiarity with, and clear understanding of, the major conceptswithin Indian philosophical studies.
3. Increase students understanding of Indian Philosophical systems and theirphilosophy

SEMESTER-4

C8: CONTEMPORARY INDIAN PHILOSOPHY-I

Objective: This paper intends to acquaint the students with the philosophical problems from the perspective of contemporary Indian philosophers

1. This course is emphasizing on the modern Indian Philosophical concepts.
2. This course provides the concept of God, man, nature of the world, religion, reality, Mayaand etc. from the perspective of Contemporary Indian Thinkers.

C9: SOCIAL AND POLITICAL PHILOSOPHY

Objectives: This paper attempts to acquaint students with different social and political ideas from philosophical perspective and to develop systematic and critical understanding about them

1. This particular course covers the primary concepts of social and political philosophy likesociety, community, family, caste and class.
2. The students become familiar with the theories regarding relation between individual andsociety, social change and progress.
3. This course is designed to develop interest among the students about the contemporarysocial

issues and concerns

4. To make students understanding the notion of democracy
5. To know rights of Individuals and communities.

C10: PHILOSOPHY OF RELIGION

Objectives: This paper intends to acquaint the students with different philosophical issues andtheories regarding religion.

1. This course introduced students to understand the different religions.
2. Students are introduced to the basics of Religions.
3. To develop a critical approach to form opinion regarding various issues concerning religion.

GE-4: APPLIED ETHICS

Objectives: This paper aims at acquainting the students with basic ideas of applied ethics concerning value of life, environmental ethics and professional ethics

1. Enable students to develop ability for moral reasoning.
2. To make students aware of Ethical tools to resolve moral and ethical issues.

SEMESTER-5

C11: CONTEMPORARY INDIAN PHILOSOPHY – II

Inerpetrations given by Contemporary Indianthinkers and to develop critical understanding about them.

1. To introduce the students with the main issues of the contemporary Indian philosophy.
2. This course is emphasizing on the Morden Indian philosophers' concepts like J. Krishnamurti, M.N.Roy, K.C. Bhattacharya etc.

C12: PHENOMENOLOGY AND EXISTENTIALISM

Objectives: This paper attempts to introduce some very important movements and positions ofwestern philosophy with specific thin

1. To understand with the knowledge of phenomenology and existential philosophy.
2. To understand central themes, concepts of 20th century western philosophical traditionof phenomenology and existentialism.

DSE-1: PHILOSOPHY OF VEDAS AND UPANISHADS

Objectives: This paper attempts to acquaint the students with the origin and history of Indian Philosophy.

1. To understand the purpose of human life.
2. Spiritual development of the students and enhance their quest for truth.
3. To acquire knowledge about traditions of Hinduism
4. To understand that soul (atman) is infinite and divine.

DSE-2: META-ETHICS

Objectives: This paper attempts to acquaint the students with certain problems of meta-ethics andto develop an understanding on them.

Objectives: This paper intends to explore different in

1. To understand the nature and role of moral judgements.
2. To understand different metaethical theories.
3. To understand the meta-ethics and to enhance of philosophical skills.

SEMESTER-6

C13: COMPARATIVE RELIGION

Objectives: This paper aims at acquainting the students with characteristics and comparative study of different aspects of world religions

Programme Outcomes and Course Outcomes of Political Science Department

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Course Outcome for B.A. Political Science Honours, Generic Elective and Discipline Specific Elective

CO 1:

Semester-I: Honours

C1 Understanding Political Theory

Course Objectives:

1. To introduce students with the basic ideas of political theory, history and approaches.
2. To comprehend the differences between political theory and practices in the contemporary period.

Course Outcomes:

At the completion of the course the students are able to understand:

1. Meaning, definition, necessity and evolution of political theory.
2. Different approaches such as normative, philosophical, historical as well as empirical to study political theory.
3. Liberal (classical, modern & neo), Marxist and Multicultural Tradition to Political Theory.
4. Concepts, Debates and Dialogues of Feminism-Liberal, Marxist, Radical and Third WorldFeminism.
5. New Trends of Post Modernism in Political Theory and its differences with Modernism.
6. Differences between Political Theory and Practice in contemporary period over the issue of citizenship, state & civil society, democracy (liberal, direct, procedural, deliberative), etc.

C 2 Constitutional Government and Democracy in India:

Course Objectives:

1. To enlighten the students with the students with the constitutional design of States' structure and institutions, and their actual working over time.

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2. To promote a study of state institutions in their mutual interaction, and in interaction with the larger extra-constitutional environment.

Course Outcomes:

The students are able to understand:

1. The journey behind the full fledged Constitution of India through the acts of 1909, 1919, 1935, 1947 and beyond.
2. The constitution of India along with its features, preamble, significance as well as several provisions.
3. Extensive study on three organs of the Government, i.e., the legislature (Parliament-composition & powers functions), the executive (President, Vice President, Prime Minister & Council of Ministers) and the judiciary (High Court and Supreme Court).
4. Relationship between executive and legislative in parliamentary democracy with reference to judicial activism and Public Interest Litigation.
5. Federal Nature of Indian constitution with the division of power, centre-state relations and emergency provisions followed by 5th and 6th Schedule of Indian Constitution.
6. 73rd, 74th Amendments and 11th, 12th Schedule of the Constitution which promotes decentralization and local self government in India in the form of Panchayati Raj and Municipalties.

GE-1A: Nationalism in India:

Course Objectives:

1. To help students understand the struggle of Indian people against colonialism throughstruggle from different theoretical perspectives that highlights its different dimensions.
2. To understand the nineteenth century Indian responses to colonial dominance in the form of reformism and its criticism through various phases up to the events leading to the Partition and Independence.

Course Outcomes:

The students are able to understand:

1. Different approaches, such as, Nationalist, Imperialist, Marxist, and Subaltern Interpretations to the study of nationalism in India.
2. Major Social and Religious Reformism and anti-reformism movements in 19th century.

3. Phases of Nationalist Movement and expansion of its social bases such as Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement.
4. History of social alternatives such as Congress Socialists and Communists.
5. Participation of women in the freedom struggle movement and its impact nationwide.
6. Peasant, Tribals and Workers Movement in the 19th Century's India.
7. Communalism in Indian Politics with reference to Two Nations Theory and negotiations over partition.

GE-1B: Contemporary Political Economy

Course Objectives:

1. To familiarize the students with the different theoretical approaches to political economy.
2. To give a brief overview of the history of the evolution of the modern capitalist world.

Course Outcomes:

The students are able to understand:

1. Approaches to Political Economy Classical Liberalism, Marxism, Welfarism, Neo-liberalism andGandhian approach.
2. Capitalist Transformation a. European Feudalism and Transition to Capitalism b. Globalization: Transnational Corporations, World Trade Organization, Non-governmental Organizations (their role in development).
3. Issues in Development-I (i) Culture: Media and Television (ii) Big Dams and Environmental Concerns (iii) Military: Global Arms Industry and Arms Trade (iv) Knowledge Systems.
4. Issues in Development-II (i) Development and Displacement (ii) State, International Financial Institutions (IFIs) and Development (iii) Interest Groups, State steered Development and Peoples' Movements.
5. Globalization and Development Dilemmas (i) IT revolution and Debates on Sovereignty (ii) Gender (iii) Racial and Ethnic Problems (iv) Migration.

CO2:

Semester II: Honours

C3- Political Theory: Concepts and Debates:

Course Objectives:

1. To help the students familiarize with the basic normative concepts of political theory.
2. To encourage critical and reflective analysis and interpretation of social practices through the

---

Course Outcomes:

The students are able to understand:

1. Concept of freedom from positive and negative dimensions and its related concepts such as equality, rights, Freedom of belief, expression and dissent.
2. Equality with its different types (Formal, Procedural & Substantive); equal distribution of political power and influence.
3. Concept of egalitarianism with background inequalities and differential treatment and affirmative action.
4. Discussions on different dimensions of justice, such as procedural justice, distributive justice and substantial justice.
5. Natural rights, moral rights, legal rights, Bill of Rights versus common law, UDHR as moralrights and Three Generation of Rights.
6. Major debates in Political Philosophy such as challenges to the sovereignty of the State, multiculturalism and tolerance & Cultural Relativism.

C4: Political Process in India:

Course Objectives:

1. To map the working of 'modern' institutions premised on the existence of an individuated society.
2. To familiarize students with the working of the Indian state, paying attention to the contradictory dynamics of modern state power.

Course Outcomes:

The students are able to understand:

1. Trends in the Party System from the Congress System to Multi-Party Coalitions to Single PartyMajority System.
2. Political Mobilization and Leadership with determinants of voting behaviour such as Caste, Class, Gender and Religion.
3. Politics of regionalism, secessionism and accommodation.
4. The changing nature of the Indian state on the issue of development and globalization.

GE-2A: Feminism: Theory and Practice:

Course Objectives:

1. To explain contemporary debates on feminism and the history of feminist struggles.
2. To provide a gendered analysis of Indian society, economy and polity with a view to understanding the structures of gender inequalities.

Course Outcomes:

The students are able to understand:

1. Major concepts in feminism, such as, Sex/Gender distinction, Patriarchy, Gender Socialization, Sexual Division of Labour, Private-Public Dichotomy etc.

3. Genesis of Feminist Movements in the West: Seneca Falls Convention; Black Feminist Movement, Suffragist Movement in USA, Britain and France; the French Revolution and the Declaration of the Rights of Women and Female Citizen.

4. Genesis of Feminist Movement in the East: Feminism and the Communist Revolution in China-Issues and Debates Movement for Women's Emancipation-Rosa Luxemburg, Alexandria Kollontai Feminist issues and women's participation in anti-colonial and national liberation movements in India.

5. The Indian Experience: Contemporary issues in Feminism: Environment, Domestic Violence, Rape, Dowry, Sexual Harassment at Workplace, Right to Property and Customary versus Constitutional Law; Gender Relations in India: Family- Matrilineal and Patrilineal; Women andWork.

GE-2B: Gandhi and the Cotemporary World:

Course Objectives:

1. To elaborate Gandhian thought and examine its practical implications.

2. To introduce students with key instances of Gandhi's continuing influence right up to the contemporary period and enable them to critically evaluate his legacy.

Course Outcomes:

The students are able to understand:

1. Gandhi on Modern Civilization and Ethics of Development. (a) Conception of Modern Civilisation and Alternative Modernity (b) Critique of Development: Narmada Bachao Andolan.

2. Gandhi thought in Theory - Theories of Satyagraha and Ahimsa - Trusteeship - Critique of Caste - Vision of State.

3. Gandhian thought in practice Satyagraha in Action – Kheda Satyagraha; Temple Entry Satyagraha; Dandi March; Bhoodan Movement.

4. Gandhi's Legacy (a) Tolerance: Anti- Racism Movements (Anti-Apartheid and Martin Luther king) (b) The Pacifist Movement - Disarmament Movement, Peace Brigades International 1981 (PBI); Peace & Ecology movement (Green peace Movement) (c) Women's Movements –Chipko Movement, Anti-liqour Movement Bodhgaya Struggle.

5. Gandhi and the idea of political (a) Swaraj (b) Swadeshi.

CO 3:

Semester III (H):

C5- Introduction to Comparative Government and Politics:

Course Objectives:

1. To familiarize students with the basic concepts and approaches to the study of comparative politics.
2. To examine politics in a historical framework while engaging with various themes of comparative analysis in developed and developing countries.

Course Outcomes:

The students are able to understand:

1. Understanding Comparative Politics: Development of comparative politics; Nature and scope; Going beyond Eurocentrism- Third World approaches to comparative politics.
2. Historical context of modern Government-I: Capitalism: meaning and development; Globalization: Meaning and Development, its impact on government and politics, debates; Socialism: meaning, growth, developments, impact on government and politics.
3. Historical context of modern government-II: Colonialism and decolonization: meaning, context, forms of colonialism; anticolonialism struggles, decolonization and its impact on government and politics.
4. Themes for comparative analysis-I: Constitutional development and political economy of Britain and the USA, Role and functions of the organs of the government- A comparative perspective.
5. Themes for comparative analysis-II: Constitutional developments and political economy of Brazil, Nigeria and China.

C6- Perspectives on Public Administration:

Course Objectives:

1. To encompass public administration in its historical context with an emphasis on the various classical and contemporary administrative theories.
2. To explore some of the recent trends, including feminism and ecological conservation and how the call for greater democratization is restructuring public administration.

Course Outcomes:

1. Public Administration as A Discipline- Meaning, Dimensions and Significance of the Discipline,Evolution of Public Administration, Public and Private Administration.
2. Theoretical Perspectives- Classical Theories: Scientific Management (F.W.Taylor), Administrative Management (Gullick, Urwick and Fayol), Idealtype Bureaucracy (Max Weber); Neo-Classical Theories- Human Relations Theory (Elton Mayo), Rational Decision-Making (Herbert Simon).
3. Theoretical Perspectives- Contemporary Theories: Ecological Approach (F. W. Riggs), Innovation and Entrepreneurship (Peter Drucker), Need Hierarchy (Abraham Maslow).
4. Public Policy- Concept, Relevance and Approaches, Formulation, Implementation and Evaluation, People's Participation.
5. Major Approaches In Public Administration- New Public Management, New Public Service Approach, Good Governance, Feminist Perspectives.

C7-Perspectives on International Relations and World History:

Course Objectives:

1. To equip students with the basic intellectual tools for understanding International Relations.
2. To make students aware of the implicit Euro - centricism of International Relations by highlighting certain specific perspectives from the Global South.

Course Outcomes:

The students are able to understand:

1. Studying International Relations: Understanding International Relations: Levels of Analysis (Domestic, Regional and Systemic) History and IR: Emergence of the International State System Pre-Westphalia and Westphalia Post-Westphalia.
2. Theoretical Perspectives: Classical Realism & Neo-Realism Liberalism & Neo-liberalism.
3. Critical Perspectives: Marxist Approaches Feminist Perspectives Euro-centricism and Perspectives from the Global South.
4. An Overview of Twentieth Century IR History: World War I: Causes and Consequences Significance of the Bolshevik Revolution Rise of Fascism / Nazism World War II: Causes and Consequences.
5. Cold War and Post-Cold War: Cold War: Different Phases Emergence of the Third World Collapse of the USSR and the End of the Cold War Post-Cold War Developments and Emergence of Other Centers of Power.

GE-3A: Understanding Ambedkar:

Course Objectives:

2. To critically engage students with the existing social concerns, state and economic structures and other institutional mechanisms.

Course Outcomes:

The students are able to understand:

1. Introducing Ambedkar: Approach to Study Polity, History, Economy, Religion and Society.
2. Caste and Religion: Caste, Untouchability and Critique of Hindu Social Order; Religion andConversion.
3. Women's Question: Rise and Fall of Hindu Women; Hindu Code Bill.
4. Political Vision and Economic Vision: Democracy and Citizenship; Land and Labour.
5. Constitutionalism: Rights and Representations; Constitution as an Instrument of Social Transformation.

1. Contemporary Global Issues-I: Proliferation of Nuclear Weapons, NPT and CTBT International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments (The UN initiatives).
2. Contemporary Global Issues-II: Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons Debate; Migration; Human Security.
3. Global Shifts: Powers & Governance: Concept of Global Governance; Role of Global Governance in Contemporary International Relations; Global North-South Debate.

GE-4A: Politics of Globalization:

Course Objectives:

1. To make students from diverse background understand the process of globalization from a political perspective.
2. To create a broad understanding of the issues and processes globalization based on critical analysis of the various anchors and dimensions of globalization.

Course Outcomes:

The students will able to understand:

1.
2.

3. Concept of Globalisation: Globalisation debate; for and against, Approaches to understanding globalisation: a. Liberal approach b. Radical approach.
4. International Institutions/Regimes a. World Bank b. International Monetary Fund c. The World Trade Organisation.

dimensions: economic, political and cultural.

6. Globalisation and democracy: State, sovereignty and the civil society, Globalisation and Politics in developing countries, Globalisation and social movements.
7. Issues and Challenges: Globalisation and the demise of Nation State, Globalisation and human migration The inevitability of globalisation: Domestic and Global responses.

GE-4B: United Nations and Global Conflicts:

Course Objectives:

1. To provide a comprehensive introduction to the most important multilateral political organization in international relations.
2. To impart 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.

Course Outcomes:

The students are able to understand:

1. The United Nations-I (a) An Historical Overview of the United Nations (b) Principles and Objectives (c) Structures and Functions: General Assembly; Security Council, and Economic and Social Council; the International Court of Justice
2. The specialised agencies -International Labour Organisation [ILO], United Nations Educational, Scientific and Cultural Organisation [UNESCO], World Health Organisation [WHO], and UN programmes and funds: United Nations Children's Fund [UNICEF], United Nations Development Programme [UNDP], United Nations Environment Programme [UNEP],United Nations High Commissioner for Refugees [UNHCR]
3. Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect

   (e) Millennium Development Goals.
4. Major Global Conflicts since the Second World War (a) Korean War (b) Vietnam War (c) Afghanistan Wars (d) Balkans: Serbia and Bosnia

CO 5:

Semester V (H)

C-11: Classical Political Philosophy

Course Objectives:

1. To familiarize students with the manner in which the political questions were first posed

2. To explore the political philosophy from Plato to Rousseau

Course Outcomes:

The students are able to understand:

1. Text and Interpretation – Approaches to the interpretation of text -Marxian, Totalitarian, Psychoanalytic, Feminist, Straussian, postmodernist interpretations and pluralistic and problem driven interpretations.
2. Ancient Political Thought: Plato-Philosophy and Politics, Theory of Forms, Justice, PhilosopherKing/Queen, Communism; Aristotle- Citizenship, Justice, State and Revolution.
3. Machiavelli- Virtue, Religion, Republicanism, morality and statecraft.
4. Possessive Individualism-Hobbes: Human nature, State of Nature, Social Contract, State; atomistic individuals.
5. Locke-Laws of Nature, Natural Rights, Property.

C12- Indian Political Thought-I

Course Objectives:

1. To introduce the specific elements of Indian Political Thought spanning over two millennia.
2. To provide a sense of the broad streams of Indian thought while encouraging a specific knowledge of individual thinkers and texts.

Course Outcomes:

The students are able to understand:

1. Traditions of Pre-colonial Indian Political Thought – Emergence of Brahmanic and Shramanic (Buddhist and Jainism Philosophies) traditions and their basic tenets; Emergence of Islamic Traditions in India and the development of Hindu-Muslim Syncretism.
2. Rajadharma- Origin, Relation between Kinship and the State, Duties of the King; Kautilya-views on Statecraft, Elements of the State (The Saptanga Theory)
3. Manu: Social Laws –Sources, Dharma of the four Classes and governance, Rules relating to Law, Rules of Action in Terms of Adversity.

4. Aggannasutta (Digha Nikaya)- Theory of kingship-Origin, Social Classes, Notion of Sovereignty,Views on State and Ideal State.
5. Barani: Ideal Polity; Abul Fazal: Monarchy; Kabir: Syncretism.

DSE-2A: Human Rights in Comparative Perspective:

Course Objectives:

1. To build an understanding of human rights among students through a study of specific issues in a comparative perspective.
2. To anchor all issues in the Indian context, and pulls out another country to form a broader comparative frame.

Course Outcomes:

The students are able to understand:

1. Human Rights: Theory and Institutionalization: Understanding Human Rights, Philosophical Foundations of Human Rights- Utilitarian Rights, Natural Rights, Positivist School, Asian Values, Three Generations of Rights
2. Institutional Arrangements-United Nations, Universal Declaration of Human Rights, International Covenant on Civil and Political Rights (ICCPR), International Covenant on Economic Social and Cultural Rights (ICESCR), Optional Protocols
3. Unit-III: Rights in National Constitutions: South Africa and India
4. Unit-IV: Issues of Human Rights: Torture: USA and India, Surveillance and Censorship: Chinaand India, Terrorism and Insecurity of Minorities: USA and India
5. Structural Violence: Caste and Race: South Africa and India, Gender and Violence: India andPakistan, Adivasis/Aboriginals, the Land Question: Australia and India.

DSE-2B: Development Process and Social Movements in Contemporary India:

Course Objectives:

1. 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.
2. To make students aware of a variety of protest movements emerged to interrogate and challenge this development paradigm.

Course Outcomes:

The students are able to understand:

1. Development Process since Independence a. State and planning b. Liberalization and reforms

privatization, the impact on organized and unorganized labour b. Emergence of the new middle class

3. Agrarian Development Strategy and its Impact on the Social Structure a. Land Reforms, Green Revolution b. Agrarian crisis since the 1990s and its impact on farmers
4. Social Movements-I a. Tribal, Peasant, Dalit b. Maoist challenge
5. Social Movements-II a. Civil rights movements, Women's movements b. Environmental and Ecological Movements

CO 6:

Semester VI (H)

C-13: Modern Political PhilosophyCourse Objectives:

1. To explain students with the thoughts of Rousseau to Kollontai.
2. To comprehend major trends in modern political philosophy.

Course Outcomes:

The students will be able to understand:

1. Modernity and its discourses – Concept of Modernity, Renaissance, Enlightenment; Modernity and liberalism, Modernity versus postmodernism, Gandhi's Critique to modern civilization
2. Romantics- Jean Jacques Rousseau –Social Contract, General Will, local or direct democracy, self government, origin of inequality; Mary Wollstonecraft- Women and paternalism; critique of Rousseau's idea of education
3. Liberal socialist-John Stuart Mill- Liberty, suffrage and subjection of women, right of minorities; utility principle.
4. Radicals- (i) Karl Marx -Alienation; difference with other kinds of materialism; Gramsci-Hegemony
5. Radicals- (ii) Alexandra Kollontai- Views on Morality; socialization of housework; disagreement with Lenin, Noam Chomsky- Manufacturing Consent.

C-14: Indian Political Thought-II

Course Objectives:

1. To study general themes that have been produced by thinkers from varied social and temporal contexts.
2. To comprehend students basic discourses of Indian political thought.

The students will be able to understand:

1. Introduction to Modern Indian Political Thought: Trends and Genesis
2. Reformist Political Thought- Rammohan Roy- Rights – Freedom of Press, Civil Liberties, Gender; Pandita Ramabai: Gender- Women's Education, Sarada Sadan
3. Nationalist Political Thought: Gandhi: Swaraj; Nehru: Secularism; Tagore: Critique of Nationalism
4. Thoughts For Social Change: Ambedkar: Social Justice; Lohia: Socialism, M.N. Roy: RadicalHumanism
5. Thoughts of Cultural Nationalism: Iqbal: Community; Savarkar: Hindutva

DSE 3A: Public Policy in India

Course Objectives:

1. To provide a theoretical and practical understanding of the concepts and methods that can be employed in the analysis of public policy.
2. To seek an integrative link to students' understanding of political science, economic theory and the practical world of development and social change.

Course Outcomes:

The students are able to understand:

1. Public Policy and Analysis- Meaning and Concept, Models and Approaches
2. State and Public Policy- Nature of State and Public Policy, State Directed Policy in India: Pre and Post Reform periods
3. Political Economy and Policy: Interest Groups and Social Movements- Global Financial Institutions and Public Policy in India, Interest Groups in India, Peoples' Movements and PublicPolicy in India
4. Policy Decision-Making in India- Processes and Issues, Legislative Processes, Legal Dynamics
5. Ideology and Policy: Nehruvian Vision, Economic Liberalisation and recent developments(Inclusive Development, Disinvestment).

DSE 3B: Understanding Global PoliticsCourse Objectives:

1. To provide students a basic yet interesting and insightful way of knowing and thinking about the world around them.

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Course Outcomes:

The students are able to understand:

1. What Makes the World what it is?-The Sovereign State System-evolution of the state system, concept of Sovereignty
2. The Global Economy- the Bretton Woods Institutions and WTO-Ideological underpinnings,Transnational Economic Actors
3. Identity and Culture- culture and global politics, erosion of cultural identities under globalization

4. What Drives the World Apart?- Global Inequalities, Violence: Conflict, War and Terrorism

5. Why We Need to Bring the World Together? - Global Environment, Global Civil Society.

DSE 4A: India's Foreign Policy in a Globalizing World:

Course Objectives:

1. To teach students the domestic sources and the structural constraints on the genesis, evolution and practice of India's foreign policy.
2. 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.

Course Outcomes:

1. India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power Basic Determinants: Geography, Economic Development, Political Traditions Evolution of India's foreign policy: personality and structures of decision making
2. India's Relations with the USA and USSR/Russia Cold war years; Post-cold war; Changes and continuities
3. India's Engagements with China Nehruvian era; Post-Nehruvian era; Challenges in the post-cold war era: security and economic issues
4. India in South Asia: Debating Regional Strategies Bilateral: Pakistan, Bangladesh, Nepal, Bhutan, Sri Lanka Institutional: SAARC, India and ASEAN
5. India's Negotiating Style and Strategies Trade, Environment and Security Regimes: Nuclear, Climate Change, Foreign Economic Policy, WTO negotiations and India's role; India in the Contemporary Multipolar World: India role in the 21st century, India role in the UN.

DSE 4B: Understanding South Asia

Course Objectives:

1. To introduce the historical legacies and geopolitics of South Asia as a region.
2. To apprise students of the common challenges and the strategies deployed to deal with them by countries in South Asia.

Course Outcomes:

The students are able to understand:

1. Understanding South Asia as a Region a) Historical and Colonial Legacies b) Geopolitics of South Asia

2. Politics and Governance a) Regime types: democracy, authoritarianism, monarchy b) Emerging Constitutional Practices: federal experiments in Pakistan, constitutional democracy in Nepal and Bhutan)

3. Socio-Economic Issues- I Identity Politics: Post-colonial nationalist and sub-nationalist movements (Case studies of Bangladesh Independence from Pakistan, Tamil nationalism in Sri Lanka, ULFA in India)

4. Socio-Economic Issues-II Movements and conflicts over language, religion, ethnicity

5. Regional Issues and Challenges a) Dispute over International Borders: migration, trade, smuggling b) Dispute over Internationally shared Rivers: Brahmaputra, Kosi, Indus c) SAARC: problems and perspectives.

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Programme Outcomes and Course Outcomes of Sociology Department

DEPARTMENT OF SOCIOLOGY
SILAPATHAR COLLEGE
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Course Outcomes
Department of Sociology
Silapathar College
Semester 1

Core Course-01: Introduction to Sociology I

Course Objective: The mandate of the course is to introduce the students to a sociological way ofthinking.

Course Outcome: After completion of the course the students would be in a position to understand the historical background of the discipline of Sociology, the relationship of Sociology with other social sciences, culture, society, social change etc.

Core Course-02: Sociology of India I

Course Objective: The objective of the course is to draw the attention of the students to the key concepts and institutions which are useful for the understanding of Indian society.

Course Outcome: After completion of the course the students would be in a position to understand different concepts and institutions of Indian society such as caste, tribe, village, kinship, religion, society etc. and different discourses such as Colonial discourse, Nationalist discourse, subaltern critique etc.

Semester II

Core Course-03: Introduction to Sociology II

Course Objective: The course aims to provide general introduction to sociological thought and focus on how over a period of time the thinkers have conceptualized various aspects of society.

Course Outcome: After completion of the course the students would learn different theories of sociological perspectives such as functionalism, interpretive sociology, conflict perspective, structuralism, interactionalism and feminist perspective.

Core Course-04 : Sociology of India II

Course Objective: The paper aims to draw attention to the debates, ideas and ideologies which shape the ground of the nation.

Course Outcome: After completion of the course, the learners would be in a position to understand different ideas of Gandhi, Ambedkar, G.S. Ghurye, Louis Dumont, M.N. Srinivas, S. C. Dube; different movements in India such as Women's movement, peasant movement, ethnic movements; challenges to Civilization, State and Society such as communalism, secularism, nationalism etc

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Semester III

Core Course 05 : Political Sociology

Course Objective: The course is introduced to the students to understand the major theoretical debates and concepts in Political Sociology and the political relationships through the notions of power, governance, state and society.

Course Outcome:

After completion of the course, the students would be in a position to understand the nature of political sociology, its relation with the contemporary socio-political issues like power, authority, governance etc. Rather the course will help to develop critical insight upon how these power- authority relations create social stratification in the social system, how social pressure forces change in policy or how policy will affect society, the study of political activity of specific groupssuch as race, class, gender, ideology etc.

Core Course 06: Sociology of Religion

Course Objective: The course mainly aims at understanding the religious aspects over individualreligions.

Course Outcome: After completion of the course, the learners would be in a position to understand the social functions of religion, theory of religion of Emile Durkheim, Karl Marx and Max Weber; concepts of sacred, myth, rituals etc.

Core Course 07: Sociology of Gender

Course Objective: The course introduces the students about gender as a critical sociological lens of enquiry in relation to various social fields.

Course Outcome:

After completion of the course, the students would be in a position to understand empirical knowledge about gender practices, norms and discourses in politically significant ways as it interrogates into gender, sex and sexuality and will help students to develop critical sociological perspectives.

Semester IV

Core Course 08: Economic Sociology

Course Objective: The course aims at providing an understanding of the social and cultural bases of economic activity.

Course Outcome: After completion of the course, the student would be in a position to understand the meaning of new economic sociology, forms of exchange i.e. reciprocity and gift, system of production in hunting and gathering society, capitalism, socialism etc; meaning of development

and globalization. The students will also be in a position to comprehend how the material conditions of life are produced and reproduced through social pressures, social cause and effect of various economic phenomena.

Core Course 09: Sociology of Kinship

Course Objective: The course aims to introduce general principles of kinship and marriage with substantiated ethnographies and new directions in kinship studies.

Course Outcome: After completion of the course, the student would be in a position to understand the key concepts of kinship such as descent, consanguinity, filiation, incest taboo, affinity, family, residence etc; types of family and marriage, new reproductive technologies etc.

Core Course 10: Social Stratification

Course Objective: The course aims to introduce students to the Sociological Study of Social Inequalities.

Course Outcome: After completion of the course, the students would be in a position to understand the meaning of social stratification, open and closed patterns of social stratification, different theories of stratification, functional stratification theory, social mobility and social reproduction.

Semeste
r VCore Course 11: Sociological Thinkers- I

Course Objective: The course aims at introducing the students to the classics of Sociology through the selected texts written by the major thinkers.

Course Outcome: After completion of the course, the students will be in a position to understand the concepts of major sociological thinkers such as Comte's law of human progress, hierarchy of sciences; Marx's materialist conception of History, Weber's social Action, ideal types; Durkheim's social facts etc.

Core Course 12 : Sociological Research Methods

Course Objective: The Course aims to introduce the students the methodologies of the sociological research methods.

Course Outcome: After completion of the course, the students will be in a position to understand the sociological research, both from theoretical and methodological perspectives. They will understand the importance of research in social sciences. Also, students will develop the ability to evaluate the methodological validity of the claims made by theory. The course enables students to evaluate a piece of research and move towards designing a simple research project. Moreover, students will learn to identify ethical and practical issues in research and will be able to identify the differences between qualitative and quantitative methods.

Programme Outcomes and Course Outcomes of Botany Department

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COURSE OUTCOMES

SEM I

Course code: BC201T

Core Course I: Microbiology and Phycology

Objective: The objective of this course is to provide knowledge to the students on various forms of microbes and algae - their characteristics and economic importance.

Outcome: Students will gain knowledge about different groups of plants starting from lower groups' like- Algae, bacteria and virus.

Course code: BC202T

Core Course II: Biomolecules and Cell Biology

Objective: The objective of this course is to expose the students on molecular organizations life and also discusses cellular and molecular processes of life.

Outcome: The students will gain knowledge about the biomolecules and different cell organelles and the different types of cell division.

GENERAL ELECTIVE (GE1): Biodiversity (Microbes, Algae, Fungi, Lichen and Archegoniate)

Objective: The objective of this course is to expose the students to different forms of plant life

Outcome: Knowledge about different groups of plants starting from lower groups (eg. Algae, Fungi, Bryopyhtes and Pteridophytes) and higher group (Gymnosperms and Angiosperms) and also know the key features for the identification of plants.

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SEM II:

Course Code: BC203T

Core Course III: Mycology and Phytopathology

Objective: The objective of this course is to expose the students on the fungal world, different fungal diseases; their economic importances etc.

Outcome: Knowledge on different kinds of fungi, allied fungi and different kinds of diseases related to plants will be gained.

Course Code: BC204T

Core Course IV: Archegoniate

Objective: The objective of this course is to expose the students on Bryophyte, Gymnosperms and Fossil Plants

Outcome: Students will know about the lower plants which are alive or in fossil condition from lower to higher group.

GENERAL ELECTIVE (GE2): Plant Physiology and Metabolism

Objective: The objective of this course to expose about the different physiological and metabolic pathways within a plant.

Outcome: Students will get knowledge on photosynthetic pathways, respiration process in plants along with different biotic and abiotic factors which will affect the pathways.

SEM III

Course Code: BC305T

Core Course V: Anatomy of Angiosperms

Objective: The objective of this course is to expose the students on the structural and anatomical organizations of plant tissues and their development

Outcome: Students will know the different parts and layers present in each and every parts of plants. The different functions carried out by different parts of the plants and their relation to various climatic conditions.

Course Code: BC306T

Core Course VI: Economic Botany

Objective: The objective of this course is to expose the students on various economically important plants and plant products

Outcome: The student will gain knowledge about the economically important plants present near and there areas and their cultivation process. This will help the students in their future.

Course Code: BC307T

Core Course VII: Genetics

Objective: The objective of this course is to impart knowledge of the principles of heredity and different mechanisms of inheritance

Outcome: Students will be knowledged on the hereditary products present in plants and their flow from one generation to other

GENERAL ELECTIVE (GE3): Plant Anatomy and Embryology

Objective: The objective of this course is to expose the students to the types of plant tissues their arrangement and also to plant reproduction

Outcome: The students will gain knowledge on the origin of the plants. The cells from which a plant developed to a full grown plant. Origin of different parts of a plant and their anatomy and their relation with other will be known.

SEM IV

Course Code: BC408T

Core Course VIII: Molecular Biology

Objective: The objective of this course is to expose the students to Biological Macromolecules and various processes involved with these macromolecules

Outcome: Molecular structure of bio-molecules, their functions, their origin all can be known after study of this paper.

Course Code: BC409T

Core Course IX: Plant Ecology and Phytogeography

Objective: The objective of this course is to expose the students to interaction of plant with its surroundings and also the geographic distribution of different plants

Outcome: Students will gain knowledge about the ecological condition which surrounds us and the relation of environment with us. The ecological condition which also depends on the different geographic condition of the earth which also affect the life style of each and every organism present in our world.

Course Code: BC410T

Core Course X: Plant Systematic

Objective: The objective of this course is to expose the students to identification, classification and nomenclature of higher plants

Outcome: Students can identify all the plants which surround us along with their economic and medicinal values. While students can identify a plant they can gain knowledge on the properties and importance of the specific plants.

GENERAL ELECTIVE (GE4): Plant Ecology and Taxonomy

Objective: The objective of this course is to expose the students to interaction of plant life with the surroundings and also to identification, classification and nomenclature of plants

Outcome: Students can identify the plants present in our surroundings. Classification of these plants and nomenclature and their relation with each other can also be known.

SEM V

Course Code: BC511T

Core Course XI: Reproductive Biology of Angiosperms

Objective: The objective of this course is to expose the students to the process and mechanisms of plant reproduction

Outcome: Students can gain knowledge on the different reproductive procedures from lower to higher plants groups. Different kinds of reproductive structure, spore and seeds can be identified in different plants. The external factors which are related to reproduction also can be known.

Course Code: BC512T

Core Course XII: Plant Physiology

Objective: The objective of this course is to expose the students to different physiological processes in plant life

Outcome: Students will get knowledge on photosynthetic pathways, respiration process in plants along with different biotic and abiotic factors which will affect the pathways.

DSE Course – I: Analytical Techniques in Plant Sciences

Objective : The objective of this course is to expose the students to different techniques which can be used to study different Biological processes

Outcome: Different biological processes which are practically used for the fulfillment of the syllabus will be discussed in this section. Besides theoretical concepts practical knowledge can be achieved.

DSE Course – II: Bioinformatics

Objectives: The objective of this course is to expose the students to the application of computation tools in solving Biological problems

Outcome: For completion of course in Botany all students should also have the knowledge about the computational knowledge which is necessary for our practical knowledge.

SEM VI

Course Code: BC613T

Core Course XIII: Plant Metabolism

Objective: The objective of this course is to expose the students to various metabolic processes involved with plant life

Outcome: Students will get knowledge on photosynthetic pathways, respiration process in plants along with different biotic and abiotic factors which will affect the pathways.

Core Course XIV: Plant Biotechnology

Objectives: The objective of this course is to expose the students to application of modern tools and techniques in Biology

Outcome: Modern biotechnological studies which are necessary for the practical education are learned in this paper.

DSE Course – IV: Industrial and Environmental Microbiology

Objectives: The objective of this course is to expose the students to application of different microbes for industrial purposes and also their role in the environment

Outcome: Students will have the knowledge on the microbial world present in and within our body and environment and their role and relation with each other.

DSE Course – VI: Natural Resource Management

Objectives: The objective of this course is to expose the students to different natural resources and their management practices

Outcome: The natural resources which are available in our society and their uses and sustainable management of these resources can be known.

Programme Outcomes and Course Outcomes of Chemistry Department

DEPARTMENT OF CHEMISTRY
SILAPATHAR COLLEGE
PO: SILAPATHAR – 787059, DIST: DHEMAJI (ASSAM)
Website: www.silapatharcollege.edu.in
NAAC Accredited with CGPA of 2.62 on 15/11/2015 as 'B' Grade

SEMESTER	COURSE	OBJECTIVE	COURSE OUTCOME
1ST SEM	CHEMISTRY-C-101	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 ionicbond, solvation energy, covalent character of ionic bond, redox equations, principle involved in volumetric analysis etc.
	CHEMISTRY-C-101	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.

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	GE-1	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, solvation energy, covalent character of ionic bond, redox equations, principle involved in volumetric analysis etc.
2nd SEM	CHEMISTRY-C-201	To develop preliminary knowledge in basic organic chemistry, Hydrocarbons, stereochemistry & conformational analysis.	Students will gain an understanding of: i. Knowledge of basic organic chemistry, definition, classification ofstereoisomerism, 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.
	CHEMISTRY-C-202	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)
	GE-2	To develop a strong knowledge on chemical thermodynamics, their mathematical expression & application; aromatic	Students will gain an understanding of:

		hydrocarbons, alcohols etc.	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. The concept of electrophilic substitution v. Mechanism of name reactions.
3rd SEM	CHEMISTRY-C-301	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
	CHEMISTRY-C-302	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 organicmolecule. iii. The reactivity and stability of organic molecule based on structure iv. An idea of alcohols, phenols, carbonyl compounds, acids and their derivatives etc.
	CHEMISTRY-C-303	To acquaint students in details on phase equilibria,	Students will gain an understanding of:

		chemical kinetics, catalysisand surface chemistry.	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.
	GE-3	To acquaint students in details on phase equilibria, chemical kinetics, electrochemistry and conductance; carboxylic acids, amines, carbohydrates and proteins etc.	Students will gain an understanding of: i. Concept of phases, phase diagrams for systems of solid- liquid equilibria involving eutectic, congruent and incongruent mp, solid solution etc ii. Organic reactions and structures of biomolecules.
	SEC-301	To acquaint students in details on analysis of soil, water, food; chromatography, ion exchange, analysis of cosmetics etc.	Students will gain an understanding of: i. Accuracy, precision, error etc. ii. Determination of pH of soil iii. Food preservation. iv. Paper chromatography, TLC etc.
4th SEM	CHEMISTRY-C-401	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-liquidequilibria involving eutectic,

			congruent and incongruent mp, solid solution etc
	CHEMISTRY-C-402	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.
	CHEMISTRY-C-403	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
	GE-4	To develop the basic knowledge on transition elements, coordinate complexes,CFT; three states of matter, chemical kinetics.	Students will gain an understanding of: i. electronic configuration of transition metals ii. d-d transition iii. Zero, 1st and 2nd order reactions.
	SEC-401	To develop the basic knowledge of renewable and non-renewable resources, use of coal, petrochemicals, lubricants.	Students will gain an understanding of: i. calorific value of fuels ii. fractionation of coal tar

			iii. thermal and catalytic cracking iv. LPG and CNG. v. cloud point, pore point etc.
5th SEM	CHEMISTRY-C-501	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. Enzymekinetics, chemical logic of metabolism iv. Health, disease and modern medicine are all rooted in biological chemistry.
	CHEMISTRY-C-502	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
	DSE-501	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-502	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
6th SEM	CHEMISTRY-C-601	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
	CHEMISTRY-C-602	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 ofcarbohydrates

			iii. Biodegradable polymer, colourand constitution of dyes and applications of different dyes.
	DSE-601	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-603	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, verballyand written for the purpose of conveying chemical information to both professional scientist and to the public. ii. Availability of instrument forconducting specific, scientific research

Programme Outcomes and Course Outcomes of Mathematics Department

DEPARTMENT OF MATHEMATICS
SILAPATHAR COLLEGE
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PROGRAMME OUTCOMES

The Objectives of the B.Sc. Programme in Mathematics is listed in the following:

After completing the programme the students will be able to

1. Apply Mathematics as a tool to solve problems of other disciplines viz., Science and Technology, Commerce and Management, Humanities, Soft- computing, etc.
2. Pursue higher studies in the subject to take part in the academic upliftment ofthe subject.
3. Develop new techniques/methods for solving the unsolved problems of theother disciplines.
4. Construct Mathematical models to mimic real-life problems and make their predictions, estimations, and regression
5. Select and apply general rules correctly to solve problems, including those inreal-life contexts.
6. Appreciate the role, value, and use of Mathematics in society to communicatemathematical ideas.

PROGRAMME OUTCOMES

The Objectives of the B.Sc. Programme in Mathematics is listed in the following.

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1. Apply Mathematics as a tool to solve problems of other disciplines viz., Science and Technology, Commerce and Management, Humanities, Soft- computing, etc.
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COURSES OBJECTIVE AND OUTCOMES

C1.1 Calculus

Objective: After going through this course the students will be able to

1. Apply Calculus in real life problems
2. Formulate mathematical models

Outcomes: Upon successful completion of this course, students will be able to

1. Describe the concepts and applications of derivatives and higher order derivatives
2. Understand the ideas of derivatives and higher order derivatives
3. Draw the graph of some curves using curve tracing
4. Illustrate the concept of area and volume with solid of revolution
5. Identify the rough sketch of curves in various coordinate systems
6. Develop reduction formulae

1. Evaluate integral values by app solve a system of linear equations by row-reducing its augmented form and applicationsof linear system

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2. Solve linear systems of equations using the language of matrices
3. List properties and subspaces of vectors in R^n
4. Find the characteristic equation, eigenvalues and corresponding eigenvectors of a givenmatrix

C2.1 Real Analysis

Objective: After going through this course the students will be able to

1. Identify the properties of the number system.

2. Describe various analytical properties of the real number system. Outcome:

Upon successful completion of this course, students will be able to

1. Describe the fundamental properties of the real numbers that underpin the formal development of real analysis
2. Determine if an infinite sequence is bounded, monotonic., convergent or divergent.

3. Determine if an infinite series is convergent or divergent by selecting the appropriate test from the following: (a) test for divergence; (b) integral test; (c) p-series test; (d) the comparison tests; (e) alternating series test; (f) absolute convergence test; (g) ratio test; and (h) root test.

4. Determine if an infinite series converges absolutely or conditionally

C2.2 Differential Equations

Objective: After going through this course the students will be able to

1. Use the techniques to solve differential equations.
2. Apply these techniques in various mathematical models used in real life problems.

Outcomes: Upon successful completion of this course, students will be able to

1. Solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases.
2. Find existence and uniqueness of solutions.

3. Create and analyze mathematical models using higher order differential equations to solve application problems such as exponential decay, lake pollution, drug assimilation into the blood, growth of population etc.
4. Find the complete solution of a non-homogeneous differential equation as a linear combination of the complementary function and a particular solution.
5. Find the complete solution of a differential equation with constant coefficients by variation of parameters.
6. Apply these techniques to solve and analyze various Mathematical models.

7. Appropriate reduction formula

8. Recognize scalar and vector functions

C1.2 Algebra

Objective: After going through this course the students will be able to

1. Describe various algebraic structures on sets
2. Identify the algebraic structures present in different branches of Sciences

Outcome: Upon successful completion of this course, students will be able to

1. Determine the properties of relations–reflexive, symmetric, transitive, and anti symmetric determine equivalence and partial order relations
2. Define and interpret the concepts of divisibility, congruence, greatest common divisor, prime and prime factorization.

C3.1 Theory of Real Functions

Objective: After going through this course the students will be able to

1. Discuss limit, continuity and differentiability of real valued functions
2. Expand functions in series and different form of remainders

Outcome: Upon successful completion of this course, students will be able to

1. Compare and contrast the ideas of continuity and differentiability
2. Understand the concepts uniform continuity.
3. Acquire the knowledge of Taylor's series expansion for various functions and to use them to find maxima and minima, critical points and inflection points of functions and to determine the concavity of curves.
4. Understand the meaning of Rolle's Theorem, Darboux's theorem, Mean value theorems etc. and their applications.

C3.2 Group Theory I

Objective: After going through this course the students will be able to

1. Describe various group structures on sets.
2. Indentify the group structures present in different branches of sciences.

Outcomes: Upon successful completion of this course, students will be able to

1. Understand the importance of algebraic properties with regard to working within various number systems
2. Recognize the dihedral and symmetric groups when described using a standard form.
3. Decide whether a given group is cyclic, and given a finite cyclic group, find a generator for a subgroup of a given order
4. Verify that a given function is a homomorphism, Cayley's theorem and various properties of isomorphism.
5. State and instantiate the definitions of the following terms: External direct product of two groups; internal direct product of two groups

1. Determine the kernel and image of a homomorphis.

2. Introduce students to how to solve linear Partial Differential with different methods.

3. To derive heat and wave equations in 2D and 3D.

Find the solutions of PDEs are determined by conditions at the boundary of the spatial domain

C3.3 PDE and Systems of ODE

Objective: After going through this course the students will be able to

1. Make mathematical formulations and their solutions of various physical problems;
2. Design mathematical models used in heat, wave.
3. Describe the Laplace equation and their solutions.

Outcomes: Upon successful completion of this course, students will be able to

4. Introduce students to partial differential equations.
5. and initial conditions at time zero.
6. Technique of separation of variables to solve PDEs and analyze the behavior of solutions in terms of eigen function expansions.
7. Understand to solve system of ODE, IVP using Euler's method and Runge-Kutta method.

C 4.1 Numerical Methods

Objective: After going through this course the students will be able to

1. Discuss various numerical methods and interpolation formulae
2. Apply numerical techniques for solving differential equation.

Outcome: Upon successful completion of this course, students will be able to

1. Derive numerical methods for various mathematical operations and tasks, such as interpolation, differentiation, integration.
2. Solve of linear and nonlinear equations, and the solution of differential equations.

C4.2 Riemann Integration and Series of Functions

Objective: After going through this course the students will be able to

1. Riemann integration, improper integrals.
2. Differentiation and integration of power series.

Outcome: Upon successful completion of this course, students will be able to

1. Understand Partition and refinement of partition of a closed and bounded interval.
2. Conceptualize Upper Darboux sum U(P, f) and lower Darboux sum L(P, f) and associated results. Upper integral and lower integral.
3. Understand Darboux's theorem along with Darboux's definition of integration over a closed and bounded interval.
4. Learn Riemann's definition of integrability and its Equivalence with Darboux definition of integrability along with the Necessary and sufficient condition for Riemann integrability
5. Power series Fundamental theorem of power series. Cauchy-Hadamard theorem.

6. Determination of radius of convergence. Uniform and absolute convergence of power series. Properties of sum function. Differentiation and integration of power series. Abel's limit theorems. Uniqueness of power series having sum function.

C4.3 Ring Theory and Linear Algebra I

Objective: After going through this course the students will be able to

1. Describe various ring structures on sets.
2. Solve the system of linear equations

Outcome: Upon successful completion of this course, students will be able to

1. Write precise and accurate mathematical objects in ring theory
2. For checking the irreducibility of higher degree polynomials over rings.
3. To understand the concepts like ideals and quotient rings.
4. To understand the concept of ring homomorphism.

C5.1 Multivariate Calculus

Objective: After going through this course the students will be able to

1. Extend the concepts from one variable calculus to function of several variables
2. Demonstrate the ability to think critically and solving application of real world problems involving double/triple integrals.

Outcome: Upon successful completion of this course, students will be able to

1. Recognize mathematical formulas and methods of derivation of multivariable functions.
2. State the integration techniques to calculate multiple integrals in different coordinate systems.
3. Memorize the different theorems of vector calculus.
4. Perform differential calculus operations on functions of several variables including continuity, partial derivatives and directional derivatives.
5. Estimate multiple integrals in different coordinate systems including Cartesian, polar, cylindrical and spherical coordinates.
6. Perform calculus operations on vector-valued functions.
7. Apply the computational and conceptual principles of calculus to the solutions of various scientific applications.
8. Use the most important theorems of vector calculus, such as the Fundamental Theorem of Line Integrals, Green's Theorem, the Divergence Theorem, and Stokes' Theorem, to simplify integration problems.

C5.2 Group Theory II

Objective: After going through this course the students will be able to

1. Apply results from preliminary concepts to solve contemporary problems.
2. Apply in communication theory, electrical engineering, computer science and cyptography

Outcome: Upon successful completion of this course, students will be able to

1. Apply the Internal Direct Product Theorem in simple cases
2. Decide whether a given group is cyclic, and given a finite cyclic group, find a generator for a

Subgroup of a given order Express a given finite cyclic group as the direct product of cyclic groups of prime power order and, given two direct products of cyclic groups, determine whether or not they are isomorphic

3. Express products of elements of a group defined by generators and relations in appropriate standard form
4. Recognize the dihedral and dactylic groups when described using a standard form.

C6.1 Metric Spaces and Complex Analysis

Objective: After going through this course the students will be able to

1. various properties of metrics paces
2. complex number system, its differentiation and integration

Outcome: Upon successful completion of this course, students will be able to

1. Learn various natural and abstract formulations of distance on the sets of usual

   or unusual entities. Become aware one such formulations leading to metric spaces. Analyze how a theory advances from a particular frame to a general frame

2. Appreciate the mathematical understanding of various geometrical concepts, viz. balls or connected sets etc. in an abstract setting.
3. Learn about the two important topological properties, namely connectedness and Compactness of metric spaces.
4. Introduce elementary complex functions
5. Find parameterizations of curves, and compute complex line integrals directly
6. Evaluate integrals along a path in the complex plane and understand the statement of Cauchy's Theorem
7. Identify the isolated singularities of a function and determine whether they are removable, poles, or essential.
8. Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.

C6.2 Ring Theory and Linear Algebra II

Objective: After going through this course the students will be able to

1. Apply theorems proof/ solution techniques to solve real world problems
2. Find the matrix associated with a linear transformation with respect to given bases and can understand the relationship between operations of linear transformations and corresponding matrices.

Outcome: Upon successful completion of this course, students will be able to

1. Appreciate the significance of unique factorization in rings and integral domains.
2. Compute the characteristic polynomial Eigen values, eigenvectors, Eigen's paces, as well as the geometric and the algebraic multiplicities of an Eigen value and apply the basic diagonalization

result

3. Compute inner products and determine orthogonality on vector spaces, including Gram−Schmidt orthogonalization to obtain orthonormal basis.
4. Find the adjoint, normal, unitary and orthogonal operators.

DSE1.1 Analytical Geometry

Objective: After going through this course the students will be able to

1. Sketch parabola, ellipse and hyperbola
2. Solve various geometrical problems analytically.

Outcome: Upon successful completion of this course, students will be able to

1. Introduction to analytical geometry of 2 dimensional.
2. Study of lines in 2 and 3 dimension
3. Finding equation in various form of line, circle, ellipse, sphere and quadratic surfaces like cone, ellipsoid etc.

DSE2.1 Mathematical Modeling

. Solve differential equations and linear programming problems used in mathematicalmodeling.

Outcome: Upon successful completion of this course, students will be able to

1. Know about power series solution of a differential equation and learn about Legendre's and Bessel's equations.
2. Use of Laplace transform and inverse transform for solving initial value problems
3. Learn about various models such as Monte Carlo simulation models, queuing models, and linear programming models.
4. Know about geometric and algebraic solutions, simplex method and sensitivity analysis

DSE2.2 Mechanics

Objective: After going through this course the students will be able to

1. Describe Moment of a force and couple, general equation of equilibrium
2. Solve Problems of translation and rotation of rigid bodies

Outcome: Upon successful completion of this course, students will be able to

1. Know about the concepts in statics such as moments, couples, equilibrium in both two and three dimensions.
2. Understand the theory behind friction and center of gravity. Calculate moments of inertia of areas and rigid bodies.
3. Know about conservation of mechanical energy and work-energy equations.
4. Learn about translational and rotational motion of rigid bodies.

DSE2.3 Number Theory

Objective: After going through this course the students will be able to

1. Obtain solutions of Diophantine equations.
2. Objective: After going through this course the students will be able to Define number theoretic functions.

Outcome: Upon successful completion of this course, students will be able to

1. Learn about some fascinating discoveries related to the properties of prime numbers, and some of the open problems in number theory, viz., Goldbach-conjecture etc.
2. Know about number theoretic functions and modular arithmetic.
3. Solve linear, quadratic and system of linear congruence equations.
4. Learn about public key crypto systems, in particular, RSA.

DSE2.4 Bio-Mathematics

Objective: After going through this course the students will be able to

1. Discuss various models and techniques to study Bio-mathematical real life problems.

Outcome: Upon successful completion of this course, students will be able to

1. Learn the development, analysis and interpretation of bio mathematical models such as population growth, cell division, and predator-prey models.
2. Learn about the mathematics behind heartbeat model and nerve impulse transmissionmodel.
3. Appreciate the theory of bifurcation and chaos.
4. Learn to apply the basic concepts of probability to molecular evolution and genetic.

DSE3.2 Linear Programming

Objective: After going through this course the students will be able to

1. Describe various optimization techniques pertaining to linear programming.
2. Apply linear programming to problems arising out of real life problems.

Outcome: Upon successful completion of this course, students will be able to

1. Learn about the graphical solution of linear programming problem with two variables.
2. Learn about the relation between basic feasible solutions and extreme points.
3. Understand the theory of the Simplex method used to solve linear programmingproblems.
4. Learn about two-phase and big-M methods to deal with problems involving artificial variables.
5. Learn about the relationships between the primal and dual problems.
6. Solve transportation and assignment problems.
7. Apply linear programming method to solve two-person zero-sum game problems.

DSE 3.3 Discrete Mathematics

Objective: After going through this course the students will be able to

1. Explain various discrete structures.
2. Design graph theoretic models of real life problems.

Outcome: Upon successful completion of this course, students will be able to

1. Understand the notion of ordered sets and maps between ordered sets.
2. Learn about lattices, modular and distributive lattices, sublattices and homomorphisms between lattices.
3. Become familiar with Boolean algebra, Boolean homomorphism, Karnaugh diagrams, switching circuits and their applications.
4. Learn about basics of graph theory, including Eulerian graphs, Hamiltonian graphs. Learn about the applications of graph theory in the study of shortest path algorithms.

DSE3.4 Theory of Equations

Objective: After going through this course the students will be able to

1. Discuss various properties of algebraic equations, symmetric properties of roots and determination of roots.

Outcome: Upon successful completion of this course, students will be able to

1. Describe the relation between roots and coefficients
2. Find the sum of the power of the roots of an equation using Newton's Method.
3. Transform the equation through roots multiplied by a given number, increase the roots, decrease the roots, removal of terms
4. Solve the reciprocal equations.
5. Analyze the location and describe the nature of the roots of an equation.
6. Obtain integral roots of an equation by using Newton's Method.
7. Compute a real root of an equation by Horner's method.

DSE 4.1 Mathematical Methods

Objective: After going through this course the students will be able to

1. Construct mathematical models or real world problems.
2. Solve real world problems through the studied theories.

Outcome: Upon successful completion of this course, students will be able to

1. Know about piecewise continuous functions, Dirac delta function, Laplace transforms and its properties.
2. Solve ordinary differential equations using Laplace transforms.
3. Familiarize with Fourier transforms of functions belonging to $\mathbb{R}$ class, relation between Laplace and Fourier transforms.
4. Explain applications of Fourier transforms to boundary value problems.
5. Learn Fourier series, Bessel's inequality, term by term differentiation and integration of Fourier series.
6. Apply the concepts of the course in real life problems.

DSE 4.2 Boolean Algebra and Automata Theory

Objective: After going through this course the students will be able to

1. Define a lattice

2. Identify various lattice properties and apply them to describe switching circuits.

Outcome: Upon successful completion of this course, students will be able to

1. Define Semigroups, Monoids, Homomorphism and Isomorphism.
2. Describe the TF statements, connectives, atomic and compound statements.
3. Illustrate Tautology, Tautological implication, Truth Tables, Normal Forms, Principal Normal Forms.
4. Discuss the theory of inference, quantifiers, predicate calculus.
5. Interpret Lattices, Boolean Algebra, Karnaugh Map, Switching Circuits.

DSE4.3 Probability and Statistics

Objective: After going through this course the students will be able to

1. Characterize the statistical techniques.
2. Define various statistical distributions and obtain their related properties
3. Describe the mathematical theory of probability

Outcome: Upon successful completion of this course, students will be able to

1. Learn about probability density and moment generating functions.
2. Know about various univariate distributions such as Bernoulli, Binomial, Poisson, gamma and exponential distributions.
3. Learn about distributions to study the joint behavior of two random variables.
4. Measure the scale of association between two variables, and to establish a formulation helping to predict one variable in terms of the other, i.e., correlation and linear regression.
5. Understand central limit theorem, which helps to understand the remarkable fact that: the empirical frequencies of so many natural populations, exhibit a bell-shaped curve, i.e., a normal distribution.

DSE 4.4 Differential Geometry

Objective: After going through this course the students will be able to

1. Describe various properties of space curves, surfaces and Geodesics
2. Discuss the properties of algebra and calculus of tensors.

Outcome: Upon successful completion of this course, students will be able to

1. Determine and calculate curvature of curves in different coordinate systems.
2. Parameterize surfaces and use the metric tensor. Calculate isometries.
3. Treat geodesic curves and parallel translation Calculate and analyze curvature of surfaces in different settings.
4. Know the concept of tensor and recognize tensors that are used in mechanics, image processing and theory of relativity.
5. Apply geometry of curves and surfaces to computer aided graphics
6. Discuss Gauss Bonnet theorem and its implication for a geodesic
7. Understand concepts of tensor variables and difference from scalar or vector variables.
8. Understand the reason why the tensor analysis is used and explain usefulness of the tensor

analysis.

9. Derive base vectors, metric tensors and strain tensors in an arbitrary coordinate system.

SEC-1.1 Logic and Sets

Objective: After going through this course the students will be able to

1. Analyze the truth and falsity of a logical statement
2. Differentiate between a logical statement and an ordinary statement
3. Define and describe various properties of sets.

Outcome: Upon successful completion of this course, students will be able to

1. Analyze the logical structure of statements symbolically, including the proper use of logical connectives, predicates, and quantifiers.
2. Construct truth tables, prove or disprove a hypothesis, and evaluate the truth of a statement using the principles of logic
3. Solve problems and write proofs using the concepts of set theory, including the methods of Venn diagrams and truth tables.
4. Solve problems and write proofs using the basic definitions and the fundamental properties of subsets and operations on the real numbers, integers, rational and irrational, even and odd, multiples or factors of whole numbers

SEC-1.2 Computer Graphics

Objective: After going through this course the students will be able to

1. Indentify the core concepts of computer graphics
2. Apply graphics programming techniques to create and design computer graphics scans.

Outcome: Upon successful completion of this course, students will be able to

1. Understand the basic concepts and the functioning of graphic processors.
2. Implement various algorithms to scan, convert the basic geometrical transformations
3. Analyze graphics devices to produce a graphics image of desired quality.
4. Evaluate the utility of a certain graphics model by writing a program.

SEC-2.1 Graph Theory

Objective: After going through this course the students will be able to

1. Describe the fundamental properties of Graph Theory
2. Identify different representations of a Graph for practical applications

Outcome: Upon successful completion of this course, students will be able to

1. Understand graphs, paths, circuits which is very useful in daily life.
2. Find out shortest path by Travelling salesman's problem & Dijkstra's algorithm it is used in making travelling plan road maps, etc.
3. SEC-2.2 Operating System: Linux

Objective: After going through this course the students will be able to

1. Test the linux process model and explain how linux schedule processes and provide inter-process communication

2. Explore how linux implements files systems and manages input output devices.

Outcome: Upon successful completion of this course, students will be able to

1. Explain the structure and functions of operating systems along with their components, types and working.
2. Make use of appropriate Linux commands for memory management, file management and directory management.
3. Analyze the performance of different scheduling algorithms along with the policies for concurrency and deadlock management.
4. Elaborate the system calls for process management and file management.

GE-1.1 Differential Calculus

Objective: After going through this course the students will be able to

1. Differentiate functions
2. Find tangent normal, curvature, asymptotes etc.

Outcome: Upon successful completion of this course, students will be able to

1. Apply limiting properties to describe and prove continuity and differentiability conditions for real functions.
2. Understand important theorems, such as IVT, Rolle's and Mean value theorem, and will begin the study of power series and convergence.
3. Learn methods of Tracing of curves in Cartesian, Parametric and Polar forms.

GE-1.2 Object Oriented Programming in C++

Objective: After going through this course the students will be able to

1. Write C-programmes to solve Mathematical problems.
2. Design algorithms to solve problems.

Outcome: Upon successful completion of this course, students will be able to

Able to Understand OOPs Concept ,C++ language features. Able to Understanding and Applying various Data types, Operators, Conversions in program design.

1. Able to Understand and Apply the concepts of Classes &Objects, friend function , constructors &destructors in program design.
2. Able to Design & implement various forms of inheritance, String class, calling base class constructors.
3. Able to Apply & Analyze operator overloading, runtime polymorphism , GenericProgramming.
4. Able to Analyze and explore various Stream classes, I/O operations and exceptionhandling.

GE-2.1 Differential Equation

Objective: After going through this course the students will be able to

1. Describe various methods for solving differential equations.

Outcome: Upon successful completion of this course, students will be able to

1. Explain the concept of differential equation.
2. solve first-order ordinary differential equations and higher-order linear differential equations.
3. Solves the homogeneous linear differential equations with constant coefficients. Applies the method of undetermined coefficients to solve the non-homogeneous linear differential equations with constant coefficients.

GE-3.1 Real Analysis

Objective: After going through this course the students will be able to

1. Analyze the properties of the number line
2. Describe various analytical properties of the real number system

Outcome: Upon successful completion of this course, students will be able to

1. Understand many properties of the real line $\mathbb{R}$, including completeness and Archimedean properties.
2. Learn to define sequences in terms of functions from $\mathbb{N}$ to a subset of $\mathbb{R}$.
3. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
4. Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers

GE3.2 Cryptography and Network Security

Objective: After going through this course the students will be able to

1. Discuss the principles of Cryptography
2. Explain various ways of attacks in complex networks.
3. Explain the structure and organization of the complex network.

Outcome: Upon successful completion of this course, students will be able to

1. Understand the most common type of cryptographic algorithm.
2. Understand the Public-Key Infrastructure.
3. Understand security protocols for protecting data on networks · Be able to digitally sign emails and files.
4. Understand vulnerability assessments and the weakness of using passwords for authentication.
5. Perform simple vulnerability assessments and password audits.
6. Configure simple firewall architectures.
7. Understand Virtual Private Networks

GE-4.1 Algebra

Objective: After going through this course the students will be able to

1. Describe various algebraic structures onsets
2. Identify the algebraic structures present in different branches of Sciences

Outcome: Upon successful completion of this course, students will be able to

1. Understand the importance of algebraic properties with regard to working within various number systems

2. Recognize the dihedral and symmetric groups when described using a standard form.

3. Decide whether a given group is cyclic, and given a finite cyclic group, find a generator for a subgroup of a given order.

2. Recognize the dihedral and symmetric groups when described using a standard form.

3. Decide whether a given group is cyclic, and given a finite cyclic group, find a generator for a subgroup of a given order.

Programme Outcomes and Course Outcomes of Physics Department

COURSE/PROGRAMME OUTCOME OF B.SC PHYSICS

DEPARTMENT OF PHYSICS, SILAPATHAR COLLEGE

SEMESTER	COURSE NAME	COURSE OBJECTIVE	COURSE OUTCOME
I (HONOURS)	1. PHYSICS-C-I (MATHEMATICAL PHYSICS – I)	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	1. Develop the requisite mathematical skills of a student to understand the fundamental topics 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. Demonstrate the use and importance of computational methods in Physics and enable a student to construct a Physics problem computationally.

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		numerical analysis and know its role in solving problems in Physics. 6. Construct a problem in Physics computationally	
	2. Physics-C- II (MECHANICS)	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. 6. Know about the peculiar phenomena of special relativity which are not	1. Introduce the students to the basic concepts of mechanics. 2. 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.

		seen in Newtonian relativity and to understand the concept of space-time.	
I (GENERIC)	PHYSICS-GE-1 (MECHANICS)	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.	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.
II (HONOURS)	1. PHYSICS–C III (ELECTRICITY AND MAGNETISM)	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.	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

		5. Acquire the basic theoretical as well as experimental skill on electrical networking.	
	2. PHYSICS–C IV (WAVES AND OPTICS)	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.	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.
II (GENERIC)	PHYSICS-GE-2 (ELECTRICITY AND MAGNETISM)	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	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.

		as experimental skill on electrical networking.	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.
III (HONOURS)	1. PHYSICS-C-(MATHEMATICAL PHYSICS – II)	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	3. Develop the requisite mathematical skills to understand some of the fundamental topics (slightly more advanced than those in Mathematical Physics I) in Physics. 4. Develop the ability of a student to critically analyze a topic. 5. Prepare a student for more advanced topics in Physics by providing a solid grip over the fundamental concepts in Physics. 6. 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.
	2. PHYSICS C-VI (THERMAL PHYSICS)	1. Develop knowledge on the classical laws of thermodynamics and their application 2. Use the knowledge of	1. Apply the laws of thermodynamics in real world problems. 2. Conduct scientific problems and experiments on thermodynamics and

		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	allied disciplines. 3. Demonstrate a working knowledge of the physical principles in Thermal Physics.
	3. PHYSICS-C-VII (DIGITAL SYSTEMS AND APPLICATIONS)	1. Know about the basic laboratory equipment electronics. 2. Understand basic digital electronics concepts and devices. 3. Analyze digital circuits.	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.
	4. ABILITY ENHANCEMENT ELECTIVE COURSE-1 (AEEC-1) (ELECTRICAL CIRCUITS AND NETWORK SKILLS)	1. Design and trouble shoot the electrical circuits, networks and appliances through hands on mode. 2. Build the basic foundation for learning electrical wirings and repairing of other house hold equipments.	1. Design and troubleshoot certain electrical circuits and domestic appliances along with the understanding of the working of those appliances. 2. Do electrical wiring and repairing. This knowledge will develop the skill of the students for various electrical

			repairing and servicing purposes.
III (GENERIC)	PHYSICS-GE-3(THERMAL PHYSICS AND STATISTICAL MECHANICS)	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	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
IV (HONOURS)	1. PHYSICS-C-VIII (MATHEMATICAL PHYSICS-III)	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	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.

		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.	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.
	2. PHYSICS-C-IX (ELEMENTS OF MODERN PHYSICS)	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	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
	3. PHYSICS-C-X (ANALOG SYSTEMS AND	1. Know about the basics of semiconductor PN junction, its various types and its application to different electronic circuits.	1. Learn the foundation knowledge of analog electronic systems. 2. Learn the working and applications of PN junction and bipolar junction transistors (BJT).

	APPLICATIONS)	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 technique	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.
	4. ABILITY ENHANCEMENT ELECTIVE COURSE-2 (AEEC-2) (APPLIED OPTICS)	1. Learn about various optical devices, components and systems. 2. Familiarize with experiments related to optoelectronic devices. 3. Learn about Fourier transform spectroscopy, holography and various aspects of fibre optics.	1. Acquire knowledge about various optoelectronic devices and their applications. 2. Understand the basics of Laser and their uses. 3. Understand about Fourier transform spectroscopy and will learn to use this technique for various purposes. 4. Learn the use of optical fibres and related informations.
IV (GENERIC)	PHYSICS-GE-4 (WAVES AND OPTICS)	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	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.

		different optical instrument which very essential for Physics student.	
V (HONOURS)	1. PHYSICS-C-XI (QUANTUM MECHANICS AND APPLICATIONS)	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.	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.
	2. PHYSICS-C-XII (SOLID STATE PHYSICS)	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.	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.
	3. PHYSICS DSE -I (CLASSICAL DYNAMICS)	1. Understand the underlying facts in the development of classical mechanics and the advantages of its formulation over Newtonian mechanics. 2. Describe mechanics of a system in terms of equation of motion.	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

		3. Understand Lagrangian formulation and Hamiltonian formulation of mechanics and their applications in mechanical problems. 4. Study the theoretical analysis of systems oscillating with small amplitudes. 5. Observe the peculiar phenomena when transformed from Newtonian relativity to special relativity and to understand the concept of space-time.	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.
	4. PHYSICS DSE -2 (PHYSICS OF DEVICES AND INSTRUMENTS)	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.	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.
	5. PHYSICS DSE -2	1. Introduce the fundamental concepts	1. Equip the students with basic

	(ASTRONOMY AND ASTROPHYSICS)	of Astrophysics to the interested students. 2. Motivate students to pursue the further study in future in these challenging, fascinating and important fields of Physics.	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.
	6. PHYSICS DSE -2 (PHYSICS OF EARTH)	1. Acquire knowledge on origin and evolution of the Earth and Universe 2. Acquire knowledge on structure, composition and dynamics of the Earth from crust up to space. 3. Understand the interaction among different components of the Earth. 4. Get familiar with the weather and climate systems, climate change. 5. Increase people awareness of the scientific process of the Earth and its role in the exploration of the Universe.	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.
VI (HONOURS)	1. PHYSICS-C-XIII (ELECTROMAGNETIC THEORY)	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	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

		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.	vacuum as well as medium. 3. Describe states and methods of polarization and analyze the polarization state of a light source.
	2. PHYSICS-C-XIV (STATISTICAL MECHANICS)	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.	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
	3. PHYSICS DSE -3 (NUCLEAR AND PARTICLE PHYSICS)	1. Understand various concepts in Nuclear Physics. 2. Emphasize on the existing connections with other domains of Physics, in particular Quantum Mechanics, Mathematical Physics and Particle Physics.	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.

	4. PHYSICS DSE -4 (NANO MATERIALS AND APPLICATION)	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.	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.
	5. PHYSICS DSE -4 (EXPERIMENTAL TECHNIQUES)	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.	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.

Programme Outcomes and Course Outcomes of Zoology Department

DEPARTMENT OF ZOOLOGY
SILAPATHAR COLLEGE
PO: SILAPATHAR – 787059, DIST: DHEMAJI (ASSAM)
Website: www.silapatharcollege.edu.in
NAAC Accredited with CGPA of 2.62 on 15/11/2015 as 'B' Grade

Course Outcomes of Different papers studied by undergraduates of Dept. of Zoology inSilapathar College, 787059

Sl. No.	Semester/ Paper	Course objective	Course Outcome
1.	**B.Sc. 1st Semester: ZC101T (Non-Chordates I: Protistato Pseudocoelomates)**	The objective of the course is to expose the students to various forms of protozoa and worms; their classification and structural anatomy.	Student will gain and understanding of 1. Explore the diversity of invertebrate 2. Characteristics, life cycles and adaptation of various organisms.
	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.	1. Concept of species, population, community and their attributes. 2. Ecosystem functioning, conservation and management strategies. 3. Sampling methods.
	GE II (Animal Diversity)	The objective of the course is to familiarize with different groups of animals, their organ systems and characters.	1. Concept on lower invertebrates and their general characters and functions. 2. Characteristics and specific systems of lower vertebrates.

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2.	**B.Sc. 2nd semester** **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.	1. General characters, organ system, evolutionary significance and their affinities with other groups.
	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.	1. Overview of a typical cell and its organelles. 2. Comparison of different types of cells. 3. Communication between cells and their division.
	GE VIII **(Insect vectors anddiseases)**	The objective of the course is to expose to various insects and the diseases associated with them	4. Understanding general features of insects and their morphologicalcharacters
	GE VII **(Human Physiology)**	silkworm, its pests and rearing processes. The objective of the course is to expose to various organ systems of human and their life sustaining mechanisms.	silkworm with its lifecycle. 2. Rearing of silkworms, controlling the pests and diseases. 3. Developing entrepreneurship prospects. 1. Structure and functions of organ systems in controlling various mechanism such as digestion. 2. Physiology of Respiration, heart and reproduction. And functioning of skeletal system in locomotion.

B.Sc. 4th Semester **ZC408T** **(Comparative anatomy of vertebrates)**	The objective of the course is to expose to the students to different anatomical structures related to organ systems of animals.	1. The course will generate valuable information regarding the structural organization of various systems in animals. 2. Significance on the functions of the systems in relation to evolutionary linkage during its embryological formation are studied detailed in this course.
ZC409T **(Animal Physiology: Life sustaining systems)**	The objective of the course is to expose to students to the physiological organization of animalswith various systemsrequired for the survival.	1. Life sustaining systems are studied in detail to understand the in-depth concept of physiology of animals. 2. Explanation of organ systems, correlation between different systems to maintain the feasibility of animalbody.
ZC410T **(Biochemistry of metabolic processes)**	The objective of the course is to expose to various metabolic processes present in animal body.	1. Significant studies on various metabolic pathways and energy generation in our daily life.

SEC IV **(Aquarium Fish keeping)**	The objective of the course is to expose to aquarium maintenance, biology of aquarium fishes and feeding of ornamental fishes.	2. Biochemical mechanism of different molecules in cellular level. 1. Understanding the industry of aquarium fish with exotic and endemic species. 2. Studying and identification of different aquarium fish species. 3. Feed preparation and maintenance of aquarium along with entrepreneurship prospects in future.
B.Sc. 5th Semester **ZC511T** **(Molecular Biology)**	The objective of the course is to expose to cellular organization, its regulations and functional characters.	1. The course deciphers molecular and cellular organization, mechanism involved in building each and every molecule. 2. Understanding the transcriptional modifications and processes of regulatory mechanisms of gene.
ZC512T **(Principles of Genetics)**	The objective of the course is to expose to genetical organization, linkage, mapping, crossing over and recombination processes of bacteria and viruses.	1. Understanding the mendelian genetics and utilization of the mapping knowledge in visualizing genetical/ chromosomal disorders. 2. Detailed explanation on the recombination technology of microorganisms, research oriented knowledge on laboratory species to study transposable genetic elements.

ZD503T **DSE Course III** **(Endocrinology)**	The objective of the course is to expose to endocrine system and regulation of hormones.	1. The course will help the students to understand the endocrine system in our body which is the main coordinating system in regulating the secretion of hormones.
	silkworm, its pests and rearing processes.	silkworm with its life cycle. 4. Rearing of silkworms, controlling the pests and diseases. 5. Developing entrepreneurship prospects.
GE VII **(Human Physiology)**	The objective of the course is to expose to various organ systems of human and their life sustaining mechanisms.	3. Structure and functions of organ systems in controlling various mechanism such as digestion. 4. Physiology of Respiration, heart and reproduction. And functioning of skeletal system in locomotion.
B.Sc. 4th Semester **ZC408T** **(Comparative anatomy of vertebrates)**	The objective of the course is to expose to the students to different anatomical structures related to organ systems of animals.	3. The course will generate valuable information regarding the structural organization of various systems in animals. 4. Significance on the functions of the systems in relation to evolutionary linkage during its embryological formation are studied detailed in this course.

ZC409T **(Animal Physiology: Life sustaining systems)** **ZC410T** **(Biochemistry of metabolic processes)**	The objective of the course is to expose to studentsto the physiological organization of animals with various systems required for the survival. The objective of the course is to expose to various metabolic processes present in animal body.	3. Life sustaining systems are studied in detail to understand the in-depth concept of physiology of animals. 4. Explanation of organ systems, correlation between different systems to maintain the feasibility of animal body. 1. Significant studies on various metabolic pathways and energy generation in our daily life.
SEC IV **(Aquarium Fish keeping)**	The objective of the course is to expose to aquarium maintenance, biology of aquarium fishes and feeding of ornamental fishes.	2. Biochemical mechanism of different molecules in cellular level. 4. Understanding the industry of aquarium fish with exotic and endemic species. 5. Studying and identification of different aquarium fish species. 6. Feed preparation and maintenance of aquarium along with entrepreneurship prospects in future.

B.Sc. 5th Semester **ZC511T** **(Molecular Biology)**	The objective of the course is to expose to cellular organization, its regulations and functional characters.	3. The course deciphers molecular and cellular organization, mechanism involved in building each and every molecule. 4. Understanding the transcriptional modifications and processes of regulatory mechanisms of gene.
ZC512T **(Principles of Genetics)**	The objective of the course is to expose to genetical organization, linkage, mapping, crossing over and recombination processes of bacteria and viruses.	3. Understanding the mendelian genetics and utilization of the mapping knowledge in visualizing genetical/ chromosomal disorders. 4. Detailed explanation on the recombination technology of microorganisms, research oriented knowledge on laboratory species to study transposable genetic elements.
ZD503T **DSE Course III** **(Endocrinology)**	The objective of the course is to expose to endocrine system and regulation of hormones.	1. The course will help the students to understand the endocrine system in our body which is the main coordinating system in regulating the secretion of hormones.