

PROGRAMME SPECIFIC OUTCOME

BENGALI

POST GRADUATE, GRADUATE (HONOURSE & GENERAL)

Sl. No.	Program Specific Outcome
PSO1	বাংলা আমাদের মাতৃভাষা। এই ভাষার মাধ্যমে বাংলা ভাষা ও সাহিত্যের ইতিহাস জানার সুযোগ আছে। ছন্দ, অলংকার, ভাষাতত্ত্ব এবং এর সঙ্গে সঙ্গে সংস্কৃত ও ইংরেজি সাহিত্যের ইতিহাসও জানতে পারা যায়। এই কোর্স শিক্ষার ফলে কাজের জায়গায় বাংলা বলা লেখার দক্ষতা বাড়ায় ও শিক্ষার্থীদের সাফল্য অর্জন করার ক্ষেত্রে প্রচুর সম্ভাবনা থাকে।
PSO2	অনার্স পেপারের ১৪ টা কোর্সের পাঠক্রমে অনেক আকর্ষণীয় ও জ্ঞানবর্ধক বিষয় আছে। প্রাচীন, মধ্য, আধুনিক ও উত্তর আধুনিক বাংলা সাহিত্যের ইতিহাসের সঙ্গে সংস্কৃত ও ইংরেজি সাহিত্যের ইতিহাসও জ্ঞানবর্ধক। এছাড়াও রয়েছে বাংলা নাটক, ছোটগল্প, উপন্যাস, প্রবন্ধ, লোক সাহিত্য এবং রবীন্দ্র সাহিত্য। শিক্ষার্থীরা এই কোর্সের মাধ্যমে সাহিত্য মানবজীবন ও সমাজ সম্পর্কে ব্যাপক জ্ঞান লাভ করে।
PSO3	বাংলা ভাষা ব্যাকরণ প্রাচীন মধ্য এবং আধুনিক উত্তর বাংলা সাহিত্যের ইতিহাস পাঠ শিক্ষার্থীদের মধ্যে উন্নত ধারণার সৃষ্টি করে। বাংলা ছন্দ, অলংকার, ট্রাজেডি, কমেডি, রোমান্টিসিজিম, ক্লাসিসিজিম, মহাকাব্য, ওড, ব্যালাড সাহিত্যের এই ভাগগুলি শিক্ষার্থীদের মধ্যে মৌলিক জ্ঞান সঞ্চার করে।
PSO4	প্রাচীন কাব্যতত্ত্ব, চর্যাপদ, বৈষ্ণব, পদাবলী, রামায়ণ মঙ্গলকাব্য মহাভারত সার্থকতা গুলি এবং অনন্যদামঙ্গল চন্দ্রীমঙ্গল ইত্যাদি শিক্ষার্থীরা স্বেচ্ছায় নিজস্ব ধারণা ও স্বাধীনতায় পড়তে সমর্থ হয়।
PSO5	বাংলা সাহিত্যের বিভিন্ন শাখা গুলির মধ্যে যথা ছোটগল্প প্রবন্ধ এবং কবিতা শিক্ষার্থীরা স্বেচ্ছায় পরিবর্তন করতে সমর্থ হয় ও পড়তে পারে এই পরিবর্তনের মাধ্যমে তাদের নান্দনিক ধারণায় উন্নতি ঘটবে এবং আন্তঃবিভাগীয় কর্মস্পৃহাকে এগিয়ে নিয়ে যাবে।
PSO6	বাংলা স্নাতকোত্তর কোর্স চারটি পত্রে বিভক্ত প্রত্যেক কসম ছয়টি ইউনিটে বিভক্ত কত ৩ ও ৪ হল স্পেশাল পত্র। যেটা শিক্ষার্থীরা নিজের ইচ্ছায় বাছাই করতে পারে। শিক্ষার্থীরা স্বেচ্ছায় একটি ক্ষেত্র সমীক্ষা করবে নিজের বিষয় থেকে। এই কোর্সটি বাংলা ভাষা সাহিত্য ইতিহাস সমাজ রাজনীতি, ধর্ম, সাহিত্যের বিভিন্ন আন্দোলন সম্পর্কে জ্ঞান বাড়ায়। এছাড়া উনিশ শতকীয় নবজাগরণ, রবীন্দ্র সাহিত্য, নাটক, নাট্য ও রঙ্গমঞ্চ ইত্যাদি বিষয়ে জানতে পারে।
PSO7	১) বাংলা ব্যাকরণের জ্ঞান বাড়ে। ২) বাংলা বানান অভিধান সম্পর্কে জ্ঞান এবং বোধশক্তি বাড়ে। ৩) বাংলা বাক্য গঠন সম্পর্কে সাধারণ জ্ঞান এবং তাকে প্রকাশ করার ক্ষমতা বাড়ে। ৪) উপন্যাস কবিতা এবং প্রবন্ধ সম্পর্কে ১৯ ও ২০ শতকীয় ধারণা তৈরি করে। ৫) সমগ্র বাংলা সাহিত্যের ইতিহাস সম্পর্কে জ্ঞান ও বোধশক্তি নির্মাণ। ৬) আর থাকে ভাষাতত্ত্ব সম্পর্কে সাধারণ জ্ঞান।
PSO8	বাংলা সাহিত্যের ইতিহাস সম্পর্কে জানলে দেশ ধর্মসমাজ ও সংস্কৃতি এবং নবজাগরণ পরবর্তী কবিতা রচনার সাহিত্যগত ধারণা সম্পর্কে জ্ঞান বাড়ে। আমাদের দৃষ্টি প্রসারিত হয়ে সাহিত্যের অন্তর্গত বিষয়গুলির মাধ্যমে জাতীয়তাবোধের সঞ্চার হয়। লেখার

	ভাষার রীতি পদ্ধতি পূর্বে কেমন ছিল এবং ভবিষ্যতে কি হবে তা ভাষাতত্ত্বের মাধ্যমে জানতে পারা যায়।
PSO9	ভাষাচর্চার ক্ষেত্রে ভাষাতত্ত্বের ধারণা বিজ্ঞানভিত্তিক ভাষাতত্ত্ব গুরুত্বপূর্ণ সামাজিক সংযোগ ঘটায় ভাষাতত্ত্বের যে মূল বিষয়গুলি যুক্ত আছে তা হলো – শব্দ, বাক্য, অর্থ ইত্যাদি। শিক্ষার্থী সেগুলি সম্পর্কে শিক্ষা লাভ করে কিভাবে নানা পরিস্থিতিতে ও পরিবেশে ভাষার পরিবর্তন হচ্ছে সে সম্পর্কে শিক্ষার্থীর ধারণা জন্মায় ভাষাকে নতুন করে চিনতে সাহায্য করে, শিক্ষার্থীরা ব্যবহারিক ও বুদ্ধিভিত্তিক দক্ষতায় উত্তীর্ণ হয়।
PSO10	১) প্রাচীন ও মধ্যযুগের বাংলার জনগণের সমাজ সংস্কৃতি ইতিহাস সম্পর্কে জ্ঞান দান করে। ২) এই সময়ের ইতিহাস সম্পর্কে নতুন ধারণা সৃষ্টি হয় শিক্ষার্থীরা ভাষার বাস্তবায়নের সঙ্গে সম্পর্ক স্থাপন করতে পারে। সমালোচনার সাহিত্যের মাধ্যমে শিক্ষার্থীর যুক্তিনির্ভর মূল্যায়ন প্রকাশ পায়। ৩) সাহিত্যের ইতিহাসের বিশ্লেষণ শিক্ষার্থীর কাছে খুব গুরুত্বপূর্ণ। ৪) মধ্যযুগের সাধারণ পাঠ্য বিষয় উপস্থাপিত করে শিক্ষার্থীদের শিক্ষার্থীকে উপযুক্ত জ্ঞান দান করে। ৫) মধ্যযুগের সাহিত্য ও সংস্কৃতির একটা স্বচ্ছ ধারণা উপস্থাপিত করে শিক্ষার্থীর কাছে। ৬) ভবিষ্যতে সাহিত্যের অধ্যয়নের একটি মজবুত ভিত্তি রচনা করেন।
PSO11	১) কবিতা অধ্যয়ন ছন্দ ও অলংকারে শিক্ষার্থীদের বিশেষভাবে সাহায্য করে। ২) শিক্ষার্থীদের ছন্দ ও অলংকারের ব্যবহারিক পাঠ দেওয়া হয়। ৩) ছন্দ অলংকারের মাধ্যমে শিক্ষার্থী বাক্য গঠন করতে পারে সুচারু রূপে। ৪) ভাষার নান্দনিকতার জন্য ছন্দ অলংকারের বিশেষ জ্ঞান প্রয়োজন শিক্ষার্থীদের।
PSO12	১) ঐতিহাসিক সময় সম্পর্কে মধ্যযুগের অনুবাদ সাহিত্য প্রাথমিক ধারণা দেয় শিক্ষার্থীকে। ২) শিক্ষার্থীকে শান্ত ও বৈষ্ণব ধর্ম ও দর্শন সম্পর্কে জ্ঞান দান করে। ৩) ধর্মীয় সাহিত্য ও সামাজিক মূল্যবোধ সম্পর্কে জ্ঞান দান করে মধ্যযুগীয় ধর্ম সাহিত্য।
PSO13	শিক্ষার্থীরা ইংরেজি থেকে বাংলা এবং বাংলা থেকে ইংরেজিতে অনুবাদ করতে শেখে শিক্ষার্থীরা পুরুফ রিডিং পত্র লিখন প্রতিবেদন ও অন্যান্য রচনার দক্ষতা অর্জন করে। এই সমস্ত পদ্ধতি অনুশীলনে শিক্ষার্থীকে কোন সংস্থায় অনুবাদক, পুরুফ রিডার, রিপোর্টার হিসেবে চাকরি পেতে সাহায্য করে বিভিন্ন কার্যক্ষেত্রে নিয়োগের প্রয়োজনীয় দক্ষতা তৈরি করে।
PSO14	প্রবন্ধ পাঠ ১৯ শতকের মনীষীদের সমাজ-সংস্কৃতিক পুনর্নির্মাণের যুক্তিবাদী চিন্তাধারার সঙ্গে শিক্ষার্থীদের পরিচয় করায়। একই সঙ্গে শিশু কিশোর সাহিত্য ভ্রমণ ও গোয়েন্দা কাহিনী বিভিন্ন পর্বের বহুমুখী বৈচিত্রপূর্ণ জীবন চেতনার আশ্বাদন ঘটায় শিক্ষার্থীদের।
PSO15	প্রাচীন ভারতীয় ও আধুনিক সাহিত্যতত্ত্ব সম্পর্কিত পাঠ গ্রহণের মধ্য দিয়ে ভারতের শিল্পের নান্দনিক প্রস্থানগুলি ও বিশ্বযুদ্ধের পরবর্তী আধুনিক ইউরোপের সাহিত্য শিল্পকলার গতিপ্রকৃতি সম্পর্কে ধারণা পায় শিক্ষার্থীরা।
PSO16	প্রান্তিক ও দলিত জীবনের ভাষ্য সম্পর্কে ধারণা লাভ করে শিক্ষার্থীরা, উপন্যাসে অধিকারের লড়াই এবং উপনিবেশের আইন পরিবর্তন করে স্বাধীন ভারতের মানবাধিকারের স্বপক্ষে আইন প্রণয়ন করতে বাধ্য করার যে প্রক্রিয়া তা এই পর্বের পাঠ্যরচনাবলীর থেকে শিক্ষার্থীরা জ্ঞান লাভ করে।
PSO17	অর্বাচীন নব্যভারতীয় ভাষা, প্রাচীন ভারতীয় আর্থ ভাষা, সংস্কৃতিতে রচিত গ্রন্থগুলির সমৃদ্ধ সাংস্কৃতিক অভিজ্ঞাতে কিরূপ সমৃদ্ধি লাভ করেছিল তার সম্যক পরিচয় পায় শিক্ষার্থীরা এই পর্বের রামায়ণ ও ভাগবতের অনুবাদ গ্রন্থের মাধ্যমে। মধ্যযুগের মানবিক প্রেম কাহিনী তথা গভীর প্রেমের জন্য নারী প্রাণ বিসর্জন দিতে পারে তার পরিচয় পায় শিক্ষার্থীরা ময়মনসিংহ গীতিকায়। একই সঙ্গে মধ্যযুগের পুঁথির চরিত্র

	অলংকরণ সংগ্রহ ও সংরক্ষণ রীতি সম্বন্ধে ধারণা লাভ করে শিক্ষার্থী পুঁথি পাঠের মধ্য দিয়ে।
PSO18	আত্মজীবনীমূলক উপন্যাস সম্পর্কে ধারণা লাভ ও আনন্দ লাভ করতে পারে শিক্ষার্থীরা উপন্যাসের মধ্য দিয়ে। এর সঙ্গে উপন্যাসের ট্রিলজী তথা ক্লোনিকাল নোবেলের সম্যক ধারণা লাভ করে শিক্ষার্থীরা।
PSO19	সাহিত্যের বাঁক বদলে উনিশ বিশ শতকের বিভিন্ন পত্রপত্রিকা ও সাহিত্য আন্দোলন কতটা ভূমিকা পালন করেছিল সে সম্পর্কে জ্ঞান লাভ করে শিক্ষার্থীরা। সঙ্গে অনুবাদ তত্ত্ব ও অনুবাদ সাহিত্য পাঠে অন্য ভাষার সাহিত্য সম্পর্কে শিক্ষার্থীদের ধারণা তৈরি হয়।
PSO20	ভাষা অংশে বোধ পরীক্ষণ সম্পর্কে ছাত্র-ছাত্রীদের ধারণা তৈরি হবে। এখানে লেখকের ভিন্ন ভিন্ন প্রবন্ধ পাঠের জ্ঞান লাভ করবে শিক্ষার্থীরা। একই সঙ্গে সংবাদপত্রের প্রতিবেদন রচনা ও ইংরেজি থেকে বাংলায় অনুবাদ শিখতে পারবে শিক্ষার্থীরা। সাহিত্য অংশে রবীন্দ্র কবিতার ভাব সৌন্দর্য বিশ্লেষণ ও ছোট গল্পের সাহিত্য মূল্য বিচার করতে পারবে ছাত্রছাত্রীরা।

Programme Specific Outcome
Department of Economics

Sl. No.	Program Specific Outcome
PSO1	As UG students in Economics they have complete knowledge about basic as well as some advanced topics dealt with in modern economic world. They may well pursue their academic career as a Post graduate student in Economics or Quantitative Methods in Social Sciences or in some other allied subjects taught by some bona fide Universities and may step further into research arena.
PSO2	They get into deep issues of Microeconomics and Macroeconomics that are sufficient to analyse current economic phenomena around them.
PSO3	Understanding of traditional branches of economics like Public Economics and International Trade deepens knowledge and enhances application capacity.
PSO4	Skill Enhancement Courses like Insurance Market & Products generate skill to work with the particular area and ,therefore, students become able to practically opt for a job in the sector
PSO5	Discipline Specific Elective papers allow student to select areas according to their interests and venture into deeper details of those papers. There are alternatives to

	choose between Environmental Economics and Public Economics or between Rural Development and Selected Features of West Bengal economy etc.
PSO6	Modern courses like Environmental economics and Money & Banking give students adequate awareness regarding resource use and distribution and current institutional set up
PSO7	They are also equipped with the technical knowledge of data collection, data entry and data analysis using computer and softwares and this in turn allows them to go for a technical career such as Project supervisor, data analyst or statistician.
PSO8	Other than this they may find it to their great benefit to be an Economics student in case of all professional competitive examinations including IES (Indian Economic Services)
PSO9	They have practical knowledge about writing a dissertation in social science discipline that has its own standard structure containing review of literature, methodology, analysis and policy suggestion in sequence.
PSO10	They are well-prepared to face competitive exams or take up higher studies to progress further in academic life

Program Specific Outcome

Department of Education

Sl. No.	Program Specific Outcome
PSO1	Students can develop a clear concept about the subject Education, like nature, scope and aim of Education, factors, different agencies of education and child centric Education.
PSO2	Students gather knowledge about Educational Psychology, theories of psychology and their role and importance & impact in the field of education and education system.

PSO3	Students internalize the basics of Sociology, relation between Sociology and Education, relation between Sociology and education. Importance of Educational Sociology in the field of Education.
PSO4	Students develop knowledge about basic of Indian as well as Western Philosophy. They also develop knowledge about the importance of different schools of philosophy in the field of Education.
PSO5	Student will develop knowledge about various great Indian and Western educationist and their role in the field of Education
PSO6	Students develop knowledge about the details history of Indian Education system.
PSO7	Student will develop knowledge about Value Education, Needs of Value Education, Morality and moral development, Peace education, Role of the teachers and parents to inculcate values and facilitate moral development among the pupils.
PSO8	Students develop the concept of an ideal organization in educational institutions, the essential functions of educational management and they understand the different aspects of planning.
PSO9	Students develop the concept of guidance and counselling, various types of Guidance and basic data necessary for Guidance.
PSO10	Students develop an understanding of educational technology, concept of communication, develop an understanding of multimedia and its role in education and they also get acquainted with the instructional techniques.
PSO11	Students develop an understanding on Current Issues in Indian Education. Students will also get knowledge about different Educational Organizations like UGC, NAAC, NCERT, NUEPA, NCTE, DIET, SCERT
PSO12	Students develop an understanding on Teacher Education, Teacher Education programme, professional ethics of a teacher, Characteristics of a Good Teacher.
PSO13	Students develop understanding of the concepts of measurement and evaluation in education, process of Evaluation, types of measuring instruments and their uses, concepts of validity and reliability and their importance in educational measurement and principles of test construction. They also understand the criteria of constructing standardized tests and utility of statistics in the field of education.

PSO14	Learners develop the concept of statistics and to develop skill in analyzing descriptive measures, concept of Normal Probability Curve and its uses in education, measures of relationship and organize relevant educational data and to represent educational data through graphs and to develop skill in analyzing and displaying data.
PSO15	Students develop a concept of educational research, types of research, various steps to be followed for conducting a research and write a research report.
PSO16	Students develop a concept of Comparative Education and its Meaning, Concept, Scope and Objectives; Factors of Comparative Education. They also develop their concept of the educational structure of different country.
PSO17	Students also develop concept on special education, Various types of impairment, causes, remedies and educational facilities of differently impaired learner.
PSO18	Learners understand the concept of adjustment, maladjustment and some commonly found problem, different coping strategies for stressful situation and administration.
PSO19	The learners develop knowledge about Open and Distance Learning, Human Right Education and women Education.
PSO20	The learners also develop an excellent communication skill, Skill for Democratic Citizenship, development international understanding, national integration etc.

PROGRAMME-SPECIFIC OUTCOME OF THE DEPARTMENT OF ENGLISH

SL NO	PROGRAMME-SPECIFIC OUTCOME
PSO 1	Critically appreciate British Literature, American Literature, Postcolonial Literatures including Indian English Literature
PSO 2	Be introduced to ancient Classical Literature and Poetics in translation
PSO 3	Be introduced to ancient Indian Literature and Poetics in translation
PSO 4	Enjoy with all profit and pleasure the West and East Partition Literature in English
PSO 5	Be acquainted with Popular Literature
PSO 6	Gather fundamental knowledge about translation studies

PSO 7	Have an insight into the basics of growth and structure (philology) of English Language
PSO 8	Develop the four –fold language skills (listening, speaking, reading and writing) as far as practicable
PSO 9	To acquire the basic knowledge of English language teaching (Pedagogy)
PSO 10	Enable the students to achieve eligibility criteria for admission to the post – graduate courses
PSO 11	Enable the students to pursue B. Ed courses
PSO 12	Enable the students to develop proficiency for cracking competitive examinations like SSC, PSC, WBCS etc.
PSO 13	Have an insight into the issues of gender equity, environment, ethics and values
PSO 14	Create job opportunities for the students
PSO 15	Inculcate the humanitarian values in the students

DEPARTMENT OF GEOGRAPHY

PROGRAMME SPECIFIC OUTCOME

SL NO.	PROGRAMME SPECIFIC OUTCOMES
PSO-1	Idea on landscape evolution: Geomorphology is the base of Geography. Geography graduate students develop knowledge on evolution of landform over the Earth. They learn about the role of endogenetic forces and exogenetic forces to fabricate beautiful landscape like mountain, waterfalls, glacial lakes, sand dunes etc, all over the earth. Idea of this Nature’s landscape diversity encourages them to opt for tourism at higher study.
PSO-2	Skill of Studying Weather and Weather map: Students also understand the scientific causes behind occurrence of different climatic phenomena like cloud, rain, snowfall, cyclone and wind

	circulation at Earth's atmosphere. Skill of studying Weather map may be helpful to take Meteorological study as Career. It's also an extra advantage of selecting which place to visit when.
PSO-3	Developing environmental awareness: As an interdisciplinary subject Geography interacts with Environmental science, Soil science, Meteorology, Biology, Oceanography. Students learn about variation of soil, climate, plant and animal kingdom over the space. They learn about various environmental issues like ozone depletion, global warming and different hazards and pollutions, soil degradation, loss of biodiversity etc. From their curriculum they learn how to save our environment and biodiversity. Thus they grow up as responsible citizen.
PSO-4	Idea of World Economy and Geopolitics: Along with environmental awareness students also understand the economic forces of regional development and the way in which World Trade Organization and Economic Unions control world's economy. It's their advantage to identify the geopolitical causes lying behind recent war broken out between a power bloc and a resourceful country.
PSO-5	Knowledge on social and regional issues: Geography being a Social Science it teaches students about various socio-cultural aspects like literacy, poverty, caste and religion, race and ethnicity. Students can identify social issues of untouchability, rich-poor demarcation, population growth, poverty and socio-economic disparity between developed and less developed world. They also learn about social and regional tension persisting in the country. It puts an impression on students' tender minds and they become more careful while handling social issues in their field survey.
PSO-6	Knowing India: In Geography students learn about physical, social, cultural, economic and regional scenario of India and West Bengal in detail. It helps them to know their country which in turn builds up fellow feeling for people of different parts of India and makes them more inquisitive to come in contact of people of different culture of our country. Further knowledge on India is very much helpful in various competitive exams, WBCS and UPSC examinations too. As Geography is a basic paper of the syllabi of these examinations. Students can secure job at school, college, university through higher education. Besides technical knowledge of using computer and softwares always keep avenues of Govt. non-Govt. jobs and online jobs in the country and abroad
PSO-7	Becoming good Field Surveyor: Students of Geography learn Cartographic techniques to represent data through maps and diagrams. They learn to study cadastral map, topographic map which are basic tools of field survey. In their UG CBCS syllabus they conduct three projects on field survey. Thus gradually they become expert of writing project report on socio-economic study, environmental study and disaster management study. It also inculcate team spirit among them and this training of field survey is very much helpful for research in Geography.
PSO-8	Handling Statistical data: A graduate student in Geography learns to handle huge data base through tools of statistics. This helps to analyse social issues quantitatively and more scientifically. Statistical knowledge is the base of conducting a research work. It helps them in higher study and knowledge on statistics gives job opportunities in research centre like ISI.
PSO-9	Acquiring knowledge of Computer Basics: Both Hons. and General course students learn to use Microsoft Word, Excel and Power points as basic computer literacy. It will help them to get job at offices as present day we cannot but think of computers or digital literacy.
PSO 10	Knowledge on Remote sensing and GIS and job opportunity: Geoinformatics is a rising branch of Science. A Geography graduate learns the theoretical concepts of Remote sensing and GIS. Instead of depending on old maps and field survey, students learn to process up-to-date Remote sensing data and to make maps by GIS softwares. It's of great advantage to researchers for detailed study. Learning the use of GIS softwares Students can make Geoinformatics as their career. DST, NATMO, NRSC and many research institutes in Bangalore and Hyderabad offer job opportunity for making map through GIS.

PSO-11	Geography and job opportunity: As Geography lies at the transition between Physical Science and Social Science students learn the concepts, issues and techniques of both the domain. So they have wider job opportunity. Special training of computer literacy, remote-sensing and GIS techniques, Statistical techniques and Field survey techniques give geography students a broader spectrum of finding a job. Besides common competitive examinations of all graduate students Geography teaches to love the nature and encourages eco-tourism or mainstream tourism.
---------------	--

DEPARTMENT OF HISTORY

PROGRAMME SPECIFIC OUTCOME (HISTORY)

Sl. No.	Program Specific Outcome
PSO1	To gain knowledge of early Indian notions of history, sources, pre-historic and proto-historic cultures.
PSO2	Students learn about the social formation and cultural patterns of the ancient world.
PSO3	Students learn about the Early Medieval India. They acquire knowledge on Historical Geography – Sources: texts, epigraphic

	and numismatic data Debates on Indian feudalism, rise of the Rajputs and the nature of the state.
PSO4	This paper deals with Social Formation and Cultural Pattern of the Medieval World.
PSO5	Students learn about the history of the Delhi Sultanate in Medieval India.
PSO6	students will acquire knowledge about the transformation of Europe from Middle age to Modern age. Besides, they will learn about the history of renaissance in Italy and how the Renaissance and Humanism enlightened the life of people in Europe.
PSO7	To gain knowledge about the History of India from 1526 to 1757. From this paper students acquire knowledge about the establishment of Mughal Rule in India in 1526 and the rise of the English East India Company in Bengal and debate of the 18th Century on the decline of the Mughal Empire.
PSO8	This course introduces students to the institutions that house and maintain documentary, visual and material remains of the past. Museums and archives are among the most important such repositories and this course explains their significance and how they work.
PSO9	Students will acquire knowledge about the condition of Europe in 17 th and 18 th centuries. They will learn about the 17th century European crisis: economic, social and political dimensions.
PSO10	Students learn the foundation of the English East India Company's rule in Bengal i.e. India upto the Great Revolt of 1857 has been emphasized.
PSO11	To gain knowledge about the History of India from 1858 to 1964. Students acquire knowledge about the aftermath of the revolt of 1857 and the internal policy of independent India between 1947 to 1964 (Nehru Era).
PSO12	The purpose of this course is to introduce students to Indian art from pre-historic times to 1800 C.E. in order to understand and appreciate its diversity and its aesthetic richness.
PSO13	Students come to know about the causes and courses of the Great French Revolution (1789), its importance on France and Europe.
PSO14	The importance of place and time in history is highlighted here. Students also know about the various types of sources used in the work of writing history.
PSO15	To gain knowledge about the Life and Culture in Pre-Colonial Bengal (pre-historic times to mid 18 th Century).

PSO16	Students learn about the Life and Culture in Colonial Bengal (1757-1947). In this paper students will learn how the rule of East India Company was established in Bengal, Changes in Social and Economic life of Bengal up to 19th Century.
PSO17	Students learn about the emergence of Germany as a new great power in Europe under Bismarck, foundation of Triple alliance (1882), Kaiser William II, outbreak of the First World war (1914), outbreak of the Second World war and formation of U.N.O in 1945.
PSO18	Students acquire knowledge about the making of the Contemporary World (1946-2000) and the Post Second World War Development (Social, Political and Economic) in Europe and world.
PSO19	Students will acquire knowledge about how traditional China and Japan transformed to modernity.
PSO20	Students learn about the history of China and Japan during the post world war I period.
PSO21	Students gain knowledge about women studies and various topics about women studies viz. paternity, gender, family, marriage, gender-bias etc.
PSO22	After the completion of the graduation with History (Hons.) from this college, the students get the opportunity of being eligible for pursuing P.G. COURSES in the subject on different Universities.
PSO23	Those who do not get the chance of getting enrolled in P.G. courses either due to their poor performance or their option for completing B.Ed course or appearing at different competitive examinations like Banking, WBCS, PSC, SSC to get a remarkable advance from their undergraduate course. The knowledge gathered from it becomes very useful to crack those competitive examinations.
PSO24	The course outcome in this respect is really noteworthy because the success rate to the aforesaid career advancement programmes is upto the mark every year.

Programme Specific Outcome

Department of Music

PROGRAMME SPECIFIC OUTCOME (PHILOSOPHY)

SL NO	Sl. No.	PROGRAM SPECIFIC OUTCOME
PSO 1		Students will demonstrate the skills and artistic self expression in at least one major performance area, both in solo and collaborative settings.
	PSO1	Understanding the nature and basic concepts of philosophy related to the area of Metaphysics, Epistemology, Logic etc.
PSO 2		Students will develop and apply fundamental knowledge and skills in music theory, music history, music technologies, musical and cultural diversity.
	PSO2	Developing the expressive and communicative power of logical reasoning.
PSO 3		Students will create original or derivative music.
	PSO3	Developing the capacity of uniqueness to combine variety of views into one unified whole.
PSO 4		Students will demonstrate and apply the knowledge and performance skills sufficient to teach beginning students in voice as appropriate to the chosen reasons.
	PSO4	Recognizing different values including different moral dimension of one's decision and their consequences and the responsibility of concerned.
PSO 5		Students will increase the power of application of pedagogies and the self-assessment necessary for teaching and continuing education in his or her performance area.
	PSO5	Acquiring the knowledge to develop the defensive power and ability to establish their own views and challenging problems of philosophy.
PSO 6	PSO6	Students will demonstrate the use of basic concept, tools, techniques and procedures to develop philosophical ideas from concept to finished product. After completion of the three year honours course in Philosophy, students are expected to read the philosophical books written by various philosophers on various philosophical topics to get an overall idea of philosophy and also for widening the philosophical knowledge, to create enthusiasm and interest to do progress in research works and to write small articles on various philosophical topics.
PSO 7		Students will demonstrate the ability to work on and manage a team in a music industry related project.
PSO 8		Students can understand musical styles and genres in relation to the key social, political, economic, philosophical and aesthetic factors that helped shape them. To understand the importance and significance of the historical development of each philosophical tradition and attain knowledge from them.
PSO 9	PSO7	Students will demonstrate a functional knowledge and music's grammar and formal structures.
PSO 10		Students can pursue independent and collaborative projects in composition, theory, history or performance and present the results in a formal and professional manner.
		Identifying the inherent problems of philosophy and endeavour to reflect logically
PSO 11	PSO8	Students will provide a necessary solution to the body connection in personal artistic development.
PSO 12		Students can evaluate and assess personal musical achievement development personal goals future musical endeavors.
PSO 13	PSO9	Students demonstrate an ability to use music Technology appropriately in a variety of settings. To learn and understand the different methods of doing philosophy, understanding their significance and applying them in the relevant areas
PSO 14		Students can learn about music therapy. It can help us decrease our pain, anxiety, fatigue and depression. Research has shown that it can increase motivation and self-esteem; Improve self awareness and strengthen coping skills.
		Recognizing and understanding the different values- personal, social and global, and their harmonious relations.
PSO 15	PSO10	Students will consider the musician's role and their harmonious relations.

PS11	Acquiring the knowledge to develop the valid argumentation and developing the ability to listen and understand others view points and also to develop the ability and ability to establish their own views
PS12	To understand the ethical and moral implications and to learn applying them in all the spheres of life either academic or non-academic
PS13	Nurture various skills, thinking and creativity through assignments, project work, etc
PS14	Reveals the cultures of our ancestors, the core knowledge behind various mythologies.
PS15	Helps to grasp the core of various religions and morality
PS16	Makes a good sense in students to judge valid and invalid arguments
PS17	Enables students to think critically by using their reason and without dominated by passion
PS18	Studies ethics theoretically and on a large scale. This helps students to judge our day-today practical issues quite reasonably.
PS19	Helps us to understand the values (intrinsic, extrinsic and instrumental values)

PS20	Provides various theories to establish the relationship between language and extralinguistic world, i.e. the external world
PS21	Increasing the power of evaluative skill and systematic argument construction ability.
PS22	Developing the capacity of uniqueness to combine variety of views into one unified whole.
PS23	Developing the expressive and communicative power of logical reasoning

PROGRAMME SPECIFIC OUTCOME (PHYSICAL EDUCATION)

Sl.No	Programme Specific outcome
PSO1	Apply the knowledge of basic sciences that may be relevant and appropriate to physical education and sports sciences leading to solution of complex sports related issues and problems.
PSO2	Ability to design, implements, and evaluate process or program to meet desired needs in the field of physical education and sport sciences.
PSO3	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings to accomplish a common goal.
PSO4	Ability to communicate effectively among a range of audiences/ stakeholders
PSO5	Ability to analyze the local and global impact of physical activities and sports and games on individuals, organizations and society
PSO6	Recognition of the need for and an ability to engage in continuing professional development
PSO7	Ability to identify and analyze user needs and take them into Account in the selection, creation, evaluation, and administration of physical education and sport sciences programs.
PSO8	Ability to incorporate effectively integrate Science/ Technology/ IT-based solutions to applications

**PROGRAMME-SPECIFIC OUTCOME OF
THE DEPARTMENT OF POLITICAL SCIENCE**

SL NO	PROGRAMME-SPECIFIC OUTCOME
PSO 1	Understand the world, country, society and have awareness of ethical problems, social rights, values and responsibility to the self and to others.
PSO 2	Understand and follow changes in patterns of political behaviour, ideas and structures. Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge.
PSO 3	Take individual and team responsibility, function effectively and respectfully as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams.
PSO 4	Building overall consciousness regarding national political history, international relations and present Indian and western political thinkers.
PSO 5	Encouraging a comprehensive, comparative understanding of specific world constitutions such as UK, USA, CHINA, NIGERIA, MEXICO AND FRANCE.
PSO 6	Understanding the nature and developments in national and international politics.
PSO 7	Analyzing the Indian Constitutional provisions, major legislations and reforms.
PSO 8	Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society.
PSO 9	Use of case study method for analyzing the working of important international and regional organizations like UN, EU, ASEAN etc.
PSO 10	Developing knowledge of administrative studies with special reference to Indian administrative structures and practices.
PSO 11	Examining India's foreign relations with her neighbours and great power.
PSO 12	Know how to access and evaluate data from various sources of information.

**PROGRAMME SPECIFIC OUTCOME
DEPARTMENT OF SANSKRIT**

SI No.	Programme Specific Outcomes
PSO 1	<ul style="list-style-type: none">• The students come to know the ancient literature both classical and Vedic, philosophy of life, ethics and moral values from Dharma sutra and Ancient Indian sciences like Ayurveda, Mathematics and Yoga.
PSO 2	<ul style="list-style-type: none">• Knowledge of this subject make the students aware of the uniqueness of the origins of the language which instils a pride of learning such a language in the students
PSO 3	<ul style="list-style-type: none">• Extent and extant of Sanskrit language in general.
PSO 4	<ul style="list-style-type: none">• Acquaintance with the various dimensions of works of Sanskrit literature.
PSO 5	<ul style="list-style-type: none">• Developing strong concept of ancient Indian History Philosophy and literature.
PSO 6	<ul style="list-style-type: none">• Enhance communication skills like listening, speaking, reading and writing.
PSO 7	<ul style="list-style-type: none">• They will be able to write Devnagari scripts which provide them paleographical knowledge to read out the scripts of modern language like Hindi Marathi etc.
PSO 8	<ul style="list-style-type: none">• Increase the depth of knowledge of the core areas of the subjects
PSO 9	<ul style="list-style-type: none">• Reasonable understanding of multidisciplinary relevance of literature of Sanskrit, like Veda, Philosophy, Grammar, Kavya, Smitisastra .
PSO10	<ul style="list-style-type: none">• After becoming Graduate they can apply in the field of UPSE, WBCS etc

PROGRAMME SPECIFIC OUTCOME (SANTALI)

Sl. No.	Program Specific Outcome
PSO1	The oldest language is Santali. They can know about earth creation and human creation. The history after the creation of the world is known.
PSO2	Santali culture is known thoroughly. We know all kinds of festivals. Every festival of Santals is connected with nature. Music is closely associated with every festival.
PSO3	We can learn a lot about Santal festival, songs from Santali literature. A lot of Santali literature is related to Santali culture. We can know them.
PSO4	After reading Santali literature one can learn about the way of life of Santals. After reading Santali literature, I got to know the rules and regulations of Santals like birth, death, marriage etc
PSO5	Learn about the history of Santali literature from the beginning till today. Learn about oral literature and written literature. We can also know the history of missionaries.
PSO6	Our understanding of Santali language is formed. Where did the Santali language come from, where did it originate, and where did it develop. We can know them. Students learn about the Santali language family.
PSO7	We also conduct comparative studies with other languages within the Santali language family. Their history is also known through comparisons and types.
PSO8	Santali Grammar we can know. Through this, interest in other languages is also created. Language develops through language. Students develop intellectually.
PSO9	Santali literature can be understood by those who know it. Santali poetry, drama, novels, after reading them, have an impact on their minds. Social awareness work.
PSO10	By reading short stories, students develop their minds. Students begin socially conscious writing.
PSO11	After completing this course they can go for higher education. Can give various competitive exams. Now WBCS exams like UPSC can choose Santali subject as optional paper.
PSO12	After completing this course one can sit for the exam like NET SET etc. There are also opportunities for research for further study. He can do research on any subject and go to much higher places.
PSO13	After completing this course the most important work that he will be able to do is the work of translate. As a translator, he will get work opportunities in different places in the country and abroad.
PSO14	After completing this course students can work as Interpreter. Through this, students will get opportunities to work in different places in the country and abroad. As a result, they can go higher and higher.
PSO15	After completing this course students will be able to contribute to the development of their nation. Education can bring backward nations into the arena.
PSO16	Students can be the artisans of building society. Students will play a greater role in the development of society.

PROGRAMME SPECIFIC OUTCOME
(COMPUTER SCIENCE AND APPLICATION)

Sl. No.	Program Specific Outcome
PSO1	To solve and understand the major concepts of C programming. To gain the knowledge of C programming through practical.
PSO2	The complete understanding of the architecture of a basic computer system and the coordination between its various components.
PSO3	To solve and understand the major concepts of JAVA programming. To gain the knowledge of JAVA programming through practical.
PSO4	Developing the ability to model real-life problems mathematically in order to solve them using computers
PSO5	Developing the ability to identify the Appropriate DATA STRUCTURE for a given real-life problem.
PSO6	Understanding the organization of the OPERATING SYSTEM and its role in managing the interaction and operation of the various components of a computer system.
PSO7	To be familiar with the basic concepts of COMPUTER NETWORKING such as layered network architecture, network topologies, OSI reference model and TCP/IP protocol suite.
PSO8	To solve and understand the major concepts of PYTHON programming. To gain the knowledge of PYTHON programming through practical.

PSO9	Developing the ability to design proper Algorithms suitable for specific problems and analysing their performance.
PSO10	Learning the elementary features of a Software, analysing its life cycle and realizing the pre-requisites of developing a software.

PROGRAMME-SPECIFIC OUTCOME OF THE DEPARTMENT OF BOTANY

SL NO	PROGRAMME-SPECIFIC OUTCOME
PSO 1	The student should be able to differentiate between the characteristics of lower (like fungus and algae) and higher (like angiosperms and gymnosperms) plants.

PSO 2	Using the evidence-based comparative botany method, students will be able to explain the evolution of species and appreciate the genetic diversity on earth.
PSO 3	The students will be able to explain various plant processes and functions, metabolism, ideas related to genes and the genome, and how an organism's activity is controlled at the level of its cells, tissues, and organs.
PSO 4	The ability to understand how various life forms adapt evolve and work will be available to students.
PSO 5	Students must understand how life on Earth functions as a network and how to follow the energy pyramids using nutrient flow.
PSO 6	Students will demonstrate the experimental approaches and methods unique to their field of Botany specialisation.
PSO 7	Students will learn digital skills and combine core ideas with cutting-edge equipment.
PSO 8	Botany knowledge is also necessary for the management and development of forests, parks, wastelands, and marine resources.
PSO 9	Develop skills and ability to use knowledge efficiently in areas related to specializations and current updates in the subject.
PSO 10	Students will gain digital literacy skills and use cutting-edge technology to combine fundamental concepts.
PSO 11	The syllabus follows the idea that experience learning—includes but is not limited to not only in a classroom but also through practical instruction, projects, fieldwork, trips to enterprises, and internships.
PSO 12	Develop skills and ability to use knowledge efficiently in areas related to specializations and current updates in the subject.
PSO 13	To help graduates get prepared for competitive exams at the national and international levels like UGC-CSIR, UPSC etc.
PSO 14	The graduates must possess the knowledge and skills necessary to provide the correct services on issues of global significance, such as the SDGs Sustainable Development Goals), green technology, and others, at the right opportunity.
PSO 15	In addition to subject-specific talents, generic skills, particularly in botany, would be gained as a result of the curriculum, preparing the student for further higher education, competitive exams, and work. A curriculum focused on learning outcomes would guarantee uniform academic standards across the nation and a more comprehensive view of their competencies.

PSO 16	At the conclusion of this course, it is anticipated that students will have a greater knowledge of fundamental concepts and how they apply them to scientific principles. Students will learn to think critically and develop problem-solving skills.
--------	---

Program Specific Outcome (PSO)
Chemistry

Sl. No.	Program Specific Outcome
---------	--------------------------

PSO1	Understanding and solving the fundamental concepts of organic chemistry. Gaining knowledge of identification and characterisation of Organic Compounds through practical experiments.
PSO2	Gaining elementary knowledge of certain core areas of Physical Chemistry viz. Chemical thermodynamics, reaction kinetics and kinetic theory of gases. To learn about experiments based on chemical kinetics & ionic equilibrium.
PSO3	Understanding the basic general chemistry with the concepts of Atomic Structure, Chemical Periodicity, Acids and Bases, Redox Reactions. Learning the skill of qualitative and quantitative estimation of different metal ions from their mixtures
PSO4	Understanding reaction kinetics, reaction mechanism and learning stereochemistry of compounds possessing chirality due to the presence of stereo axis. To determine physical properties like melting points, boiling points of organic molecules
PSO5	Learning the laws governing transport processes. Applying the laws of thermodynamics to various physical and chemical processes. Exposure of basics of quantum mechanics. Gaining knowledge on conducto-metric study of ionic solutions, viscosity of liquids and chemical equilibria.
PSO6	Understanding various types of bonding in molecules with suitable examples. Nuclear chemistry of atoms, structure, stability and configuration. Understanding radioactivity, types, properties, applications and hazard management.
PSO7	Using various approaches, investigating the mechanisms of electrophilic addition reactions, elimination reactions, and study of properties and reactions of organic compounds with mechanisms. Determining the functional groups of organic compounds
PSO8	Understanding of basic techniques on Analytical chemistry with special reference to ion-exchange method and chromatography

PSO9	Gaining knowledge about solution chemistry and understanding of quantum mechanical treatment of H- like system
PSO10	Chemical introduction of industrially important inorganic materials; Extraction, preparation and application of such varied materials. Synthesis of colourful coordination compounds
PSO11	Learning mechanisms of reactions of nitrogenous compounds. Concepts of logical organic syntheses. Studying the theory and applications of spectroscopic tools in organic chemistry and estimation of some organic compounds
PSO12	Basic understanding of pharmaceutical chemistry, studying some representative drugs and acquiring knowledge on basic understanding of Biochemical molecules
PSO13	Building concept on the theory and application of Coordination Chemistry. Additionally, understanding of general properties of <i>d</i> - and <i>f</i> -block elements. Estimation of metal ions using Chromatography and Gravimetry.
PSO14	Basic understanding and synthesis of Biomolecules, Carbocycles, Pericycles and Heterocycles. Learning chromatographic techniques for Separations of Biomolecules and Spectroscopic analysis of various Organic Compounds.
PSO15	Basic knowledge of Solid-State Chemistry, Statistical Thermodynamics, Polymer Science and dielectric properties of Molecules. Learning basic programming in Fortran.
PSO16	Basic learning on quantitative and qualitative aspects of analysis, optical methods of analysis, thermal methods of analysis, electroanalytical methods & solvent separation techniques. Hands on training on separation using chromatographic methods and spectroscopic experiments etc.
PSO17	Developing fundamental knowledge on Bioinorganic Chemistry, Organometallic Chemistry, Reaction Kinetics and Mechanism. Learning qualitative semimicro analysis.

PSO18	Learning the basic principles and laws of Photochemistry, molecular spectroscopy and properties of colloids. Carrying out hands on experiments on polymers.
PSO19	Studying the functionality and kinetics of polymerisation, molecular weight determination, idea about glass transition Temperature.
PSO20	Training to carry out project leading to Dissertation and power point presentation on topics related to Organic, Inorganic and Physical Chemistry .

PROGRAMME SPECIFIC OUTCOMES (ELECTRONICS)

Sl. No.	Program Specific Outcomes
PSO1	Students will get idea about Analogue Electronics, Network Theorems Semiconductor diodes and Zener Diode and application BJT and its application and basic idea about PCB designing and implementation of the knowledge in practical field.

PSO2	Student would get idea about various linear ICs like Operational Amplifier 555 timer and their applications to practical circuits, also the idea about different types of transducers and digital to analogue and analogue to digital conversion techniques and basic idea about Arduino.
PSO3	Knowledge about digital electronics its various components and applications, knowledge about VHDL and practically using VHDL software
PSO4	Students will be able to apply knowledge about renewable energy and energy harvesting
PSO5	Understanding various communication systems and their comparative study about different systems like AM, FM, digital communication and Cellular communication and Satellite communication.
PSO6	Learning about the different optical sources and knowledge about modern optical communication and its components.
PSO7	Knowledge about the modern electronic instrumentation its measurement techniques, different components and their practical applications.
PSO8	Learning about different computational techniques and programming languages for scientific programming which will be the privilege for future research works.
PSO9	Knowledge about Digital Signal Processing and its different components and its need and its contribution in modern Digital era.
PSO10	Knowledge about electrical circuits and its components, their uses and idea about electrical wiring.

Course Outcome

Department of Environmental Science Hons.

Semester	Course	Outcome
Semester - I	CC-1: Fundamentals of Environment	<p>Ability to demonstrate comprehensive understanding of the environment, environmental processes, theories and ethics. Students will be able to describe the mechanisms of interactions between different spheres of environment, to recognize and describe how about resource management and sustainability, to demonstrate comprehensive understanding of the pollution damage to flora and fauna. Ability to demonstrate understanding of man-environment relationship, to apply critical mind in policy and approach aimed at resolving environmental issue, which, often, are with social aspects.</p> <p>Practical</p> <p>Student will enrich with practical knowledge about meiotic and mitotic cell division.</p>
	CC-2: Environmental Biology	<p>Ability to demonstrate sound understanding on scientific inquiry in the field of modern ecology like structure and functions of ecosystem, to examine the main limitations/ stress on patterns of productivity, energy flow through natural food webs, and ecosystems dynamics, to set up basic and advanced ecological sampling techniques in different ecosystems. Students will be able to demonstrate comprehensive understanding of the</p>

		<p>pollution damage to flora and fauna. They can recognize and describe how both plants and animals respond to pollutants and tolerance mechanism. They realize the usefulness of flora and fauna for pollution control mechanism. Students will be able to demonstrate understanding the fundamental concepts plant taxonomy vs systematics, to comprehend the classification system and botanical nomenclature, to analyze the characteristics of different flowering plants and to analyze the implications of taxonomy tools, biochemical and molecular techniques.</p> <p>Practical</p> <p>Know about how to measure alkalinity and acidity and dissolve oxygen of water sample and also gather some practical experience related to water analysis specially the role of dissolved oxygen in aquatic ecosystem.</p>
<p>Semester - II</p>	<p>CC-3: Environmental Chemistry</p>	<p>Ability to demonstrate sound understanding of the concept of Environmental Chemistry and the importance of environmental changes and understand various aspects of air, soil and water chemistry.</p> <p>Practical</p> <p>Estimation of Carbohydrate, protein, chlorophyll will help the student to know about different biochemical parameters related to ecosystem growth and stability</p>

		<p>Estimation of primary productivity also helps to find out the stability of an ecosystem and estimation of hardness enlighten students regarding water quality</p>
	<p>CC-4: Environmental Physics</p>	<p>Ability to demonstrate understanding of the inherent forces and flows responsible for various naturally occurring events. Ability to apply the theory to quantify the fluxes across the interfaces, to solve simple transport problems in natural environment. Students will be able to demonstrate sound understanding of analytical techniques applied in environmental analyses and to design of monitoring and analytical experiments and conclude the findings. Ability to appreciate physiological and biochemical responses of plants to alterations of various environmental parameters. They elucidate how plant biochemical parameters respond under changing environmental conditions. Has grown critical insight on the adaptive mechanisms of plants against stress. Ability to quantify mass balance relations and thermodynamic reactions.</p>
<p>Semester - III</p>	<p>CC-5: Earth Science</p>	<p>Ability to demonstrate sound understanding of the atmosphere and climate as integral part of the physical environment, to appreciate the interaction between earth and atmosphere system, particularly the microclimate and to</p>

		<p>integrate and use meteorological knowledge in the matrices of environmental research.</p> <p>Building the foundation for understanding Remote Sensing and Geographic Information System (RS-GIS) as a powerful tool for geospatial analysis. Learn about data and sources (RS based and other sources, field data) and GIS software. Develop capability to handle at least one GIS software with understanding. Obtain basic capability in skills and functional knowledge to carry out GIS (RS-GIS) based project. Ability to explain the differences in water composition that are observed in the environment as a result of differences in soil, geology and climate.</p> <p>Practical</p> <p>Student will enrich with identification of different environmental features by interpretation of satellite images and also they can able to know how to predict weather condition by different measurement tools</p>
	<p>CC-6: Environmental Resource</p>	<p>Ability to demonstrate the understanding of the core principles of soil science. Ability to describe the process of soil genesis and identify soil orders/groups based on their physico-chemical properties, to ascertain relationships between soil processes and relevant environmental consequences. They will be able to train farmers/growers to establish sound soil quality maintenance practices, to estimate the extent of pollution</p>

		<p>due to energy use. Ability to demonstrate understanding of the global, regional and local initiatives for energy conservation and sustainable development. Understand systematically the natural resources and biodiversity and its vital role. Sensitize the role and need of biodiversity conservation in the context of various developmental pathways of mankind. Examined the policy framework within which the development processes are designed. Estimate the significance of biodiversity. Ability to demonstrate sound understanding on importance of biodiversity, to analyse the sustainable utilization and conservation and to critically analyse the socio-cultural dimensions and broad legal framework for conservation of biodiversity.</p> <p>Practical</p> <p>Estimation of some physical soil parameters like pH, temperature, porosity, bulk density will also helps students to know soil quality. Organic Carbon estimation also helps students to predict students about soil fertility.</p>
	<p>CC-7: Green chemistry and environmental applications</p>	<p>Ability to demonstrate sound understanding of analytical techniques applied in environmental analyses, to design of monitoring and analytical experiments and conclude the findings.</p>

	SEC-1: Analytical techniques	Ability to understand and perform basic histological and cytological techniques, microscopy and biological analysis.
	SEC-1 (OR): Remote sensing and geographical information system (GIS)	Building the foundation for understanding Remote Sensing and Geographic Information System (RS-GIS) as a powerful tool for geospatial analysis. Learn about data and sources (RS based and other sources, field data) and GIS software. Develop capability to handle at least one GIS software with understanding. Obtain basic capability in skills and functional knowledge to carry out GIS (RS-GIS) based project.
Semester - IV	CC-8: Ecotoxicology and environmental biotechnology	Ability to demonstrate sound understanding of the concept of Environmental chemistry and Environmental Toxicology. Ability to Summarize the most relevant terms, principles, and methods in environmental toxicology, to realize the usefulness of flora and fauna for pollution control mechanism, to appreciate the perspectives of the man-environment relationship. Students will be able to critically examine the policy and approaches aimed at resolving environmental issue, which, often, are with social aspects.
	CC-9: Environmental laws, policies and environmental	Ability to appreciate the philosophies and historical development of EIA in India and elsewhere and to demonstrate sound understanding of the EIA process, the

	<p>impact assessment</p>	<p>methodologies to prepare an EIS. Ability to critically examine development actions with the fundamentals understanding of EIA and sustainable development and to demonstrate understanding Environmental Laws and policies in India and to critically appreciate national and international laws and policies connected with India</p>
	<p>CC-10: Natural hazards and management and waste management</p>	<p>Understand the geophysical processes as the drivers of different types of hazards. Appreciate how human activities interface with the geophysical processes in causing and/or accentuating natural hazard. Learn the mitigation approaches, their choices and alternatives. Develop foundations for hazard, risk and vulnerability assessment. Ability to demonstrate sound understanding of the waste generation process and characteristics of different types of solid wastes, to address the waste management processes through cradle-to-grave perspectives. Ability to assess the underlying science behind the waste driven pollution, to apply recycling vis-à-vis resource recovery technologies for useful conversion of specific waste type to eco-friendly products and to identify and quantify the magnitude and intensity of Environmental pollution problems. Ability to undertake environmental sampling and analysis with respect to air, water and noise pollution and to suggest the environmental control /management plan for environmental pollution problems.</p>

	SEC-2: Conservation and ecotourism	Ability to demonstrate understanding of the global, regional and local initiatives for energy conservation and sustainable development. Understand systematically the natural resources and biodiversity and its vital role. Sensitize the role and need of biodiversity conservation in the context of various developmental pathways of mankind. Examined the policy framework within which the development processes are designed. Estimate the significance of biodiversity. Also students will get clear knowledge regarding different types of tourism and advantages of ecotourism.
	SEC-2 (OR): Microbiological techniques	Ability to understand different preparation techniques of bacterial culture, aseptic techniques, preparation of slants and pure culture techniques. Students are able to understand staining preparation and different instrumentations and they are able to apply it practically.
Semester - V	CC-11: Environmental pollution	Ability to identify and quantify the magnitude and intensity of Environmental pollution problems and to undertake environmental sampling and analysis with respect to air, water and noise pollution. Students will be able to suggest the environmental control /management plan for environmental pollution problems, to demonstrate understanding of the inherent factors responsible for air pollution and to

		<p>appreciate the social cost of air pollution. Ability to appreciate the causes and consequences of air pollution in different indoor environments, comprehend the significance of good indoor air quality, and more particularly address different indoor air pollution issues. Ability to apply knowledge Environmental Pollution of to understand issues relating to the problems of pollution, its impacts on the biosphere and find practical ways for its management.</p> <p>Practical</p> <p>Estimation of some water parameters will helps students to know about water quality. Student also about noise and dust fall measurements technics which will helps them to predict quality environment.</p>
	<p>CC-12: Environmental engineering and statistics</p>	<p>Ability to demonstrate sound understanding on descriptive and analytical statistics. Ability to suitably apply useful statistical software and to perform vital statistical estimation and interpret the underlying relationships among target variables. Students will get the ability to apply the knowledge on probability and other forms of distributions (Normal, Poisson etc.) for data analysis.</p>
	<p>DSE-1: Environmental pollution and monitoring techniques</p>	<p>Ability to identify and quantify the magnitude and intensity of Environmental pollution problems. Ability to undertake environmental sampling and analysis with respect to air, water and noise pollution and to suggest the environmental control</p>

		<p>/management plan for environmental pollution problems. Students will have the ability to describe the major hydrogeochemical processes and parameters that control metal mobility in an aquatic systems and to describe the major hydrogeochemical processes and parameters that control metal mobility in an aquatic system.</p>
	<p>DSE-1 (OR): Disaster management</p>	<p>Understand the geophysical processes as the drivers of different types of hazards. Appreciate how human activities interface with the geophysical processes in causing and/or accentuating natural hazard. Learn the mitigation approaches, their choices and alternatives. Develop foundations for hazard, risk and vulnerability assessment.</p>
	<p>DSE-2: Environmental health and stress physiology</p>	<p>Ability to appreciate physiological and biochemical responses of plants to alterations of various environmental parameters. Ability to elucidate how plant biochemical parameters respond under changing environmental conditions. Has grown critical insight on the adaptive mechanisms of plants against stress. Also students will be able to understand about different health issues of India, different mode of diseases and they will have clear idea regarding different governmental health programs.</p>
	<p>DSE-2 (OR): Environmental issues</p>	<p>Ability to demonstrate comprehensive understanding of the environment,</p>

		<p>environmental processes, theories and ethics. Ability to describe the mechanisms of interactions between different spheres of environment. Ability to recognize and describe how about resource management and sustainability. Ability to demonstrate comprehensive understanding of the pollution damage to flora and fauna. Ability to demonstrate understanding of man-environment relationship. Ability to apply critical mind in policy and approach aimed at resolving environmental issue, which, often, are with social aspects. Understand systematically the natural resources and biodiversity and its vital role. Sensitize the role and need of biodiversity conservation in the context of various developmental pathways of mankind. Examined the policy framework within which the development processes are designed. Estimate the significance of biodiversity. Ability to demonstrate sound understanding on importance of biodiversity. Ability to analyse the sustainable utilization and conservation. Ability to critically analyze the socio-cultural dimensions and broad legal framework for conservation of biodiversity.</p>
Semester - VI	CC-13: Environmental economics and management	<p>Ability to demonstrate sound understanding of the waste generation process and characteristics of different types of solid wastes. Students will be able to address the waste management processes through cradle-to-grave perspectives. Ability to</p>

		<p>assess the underlying science behind the waste driven pollution, to apply recycling vis-à-vis resource recovery technologies for useful conversion of specific waste type to eco-friendly products. Comprehend the fundamental concepts of environmental economics; its application on human welfare. Recognize the utility of economic theories for solving environmental problems. Understand concept of sustainability from economic and environmental frontage. Ability to demonstrate understanding of ecological concepts and sustainable development, to apply knowledge of environmental economics in sustainable developmental planning. Ability to evaluate the costs and benefits associated with developmental activities and any environmental policy decisions.</p>
	<p>CC-14: Wildlife management and conservation</p>	<p>Understand systematically the natural resources and biodiversity and its vital role. Sensitize the role and need of biodiversity conservation in the context of various developmental pathways of mankind. Examine the policy framework within which the development processes are designed. Estimate the significance of biodiversity. Ability to demonstrate understanding of the role and importance of forest and agroforestry in livelihood development. Ability to comprehend the species composition and its functional response with respect to the prevailing micro-</p>

		<p>and macro environmental conditions. Students further will be able to critically examine the participation and role of community for the management and conservation of forest with due awareness of deforestation in large scale, to demonstrate systematic understanding of contemporary environmental issues at local, regional and global level. Ability to appreciate how the environmental crisis will greatly impact both current and future generations and all other species, to demonstrate sound understanding on importance of biodiversity, to analyse the sustainable utilization and conservation and to critically analyse the socio-cultural dimensions and broad legal framework for conservation of biodiversity.</p> <p>Practical</p> <p>Field visit will make students aware about the total environmental scenario of an area, practical problem and methods of solution. Visit and/or classes in different higher educational institutions also helps them to Chalk Out future path. Understand systematically the natural resources and biodiversity and its vital role. Sensitize the role and need of biodiversity conservation in the context of various developmental pathways of mankind. Examined the policy framework within which the development processes are designed. Estimate the significance of biodiversity.</p>
	DSE-3: Water	Understand the processes and mechanisms of

	and water resources	change in the atmosphere. Understand the Processes of transport and deposition. Develop critical thinking in the matter of physicochemical changes in the atmosphere. Ability to understand different properties of water, different characteristics of water and resources and different conflicts related to water in India.
	DSE-3 (OR): Atmosphere and global climate change	Ability to demonstrate understanding of the changing climate. Ability to appreciate the ecosystem responses to climate change, ozone layer depletion and global warming. Ability to critically examine the technological interventions for mitigating the climatechange impacts. Understand the physics and chemistry of atmosphere. Also students are able to know different conventions and policies regarding climate change.
	DSE-4: Environmental biotechnology	Ability to understand different waste water treatment and bioremediation techniques. Also students will have clear idea regarding genetic materials and recombinant DNA technology.
	DSE-4 (OR): Solid waste management	Ability to demonstrate sound understanding of the waste generation process and characteristics of different types of solid wastes, to address the waste management processes through cradle-to-grave perspectives. Ability to assess the underlying science behind the waste driven pollution. Ability to apply recycling vis-à-vis

		resource recovery technologies for useful conversion of specific waste type to eco-friendly products.
--	--	---

PROGRAMME SPECIFIC OUTCOME (MATHEMATICS)

SL No.	Program specific outcome
PSO-1	Gain a strong knowledge in different areas of mathematics and solve real life problems by constructing and solving mathematical models.
PSO-2	Acquire numerical skill and logical thinking and apply these in facing competitive examinations, internships with confidence
PSO-3	Gain scientific knowledge and skills which enables them to undertake further studies in Mathematics, Statistics or its allied areas.
PSO-4	Pursue research in the field of Mathematics, Engineering, Information Technology, Computer Science and Social Science
PSO-5	Apply knowledge of principles, concepts, and results in specific subject area to analyse their impact both locally and globally.
PSO-6	Enhance problem-solving skills to resolve day to day problems.

PROGRAMME SPECIFIC OUTCOME (PHYSICS)

Sl. No.	Program Specific Outcome
PSO1	To obtain various mathematical tools like vector, calculus, beta-gamma function, Fourier series, Laplace's transformation, matrix, etc., to make understanding physics easier
PSO2	Studying some general properties of matter, central force, gravitation, elasticity, fluid dynamics, surface tension, viscosity etc.
PSO3	To learn the dynamics of the bodies through Newtonian mechanics and classical mechanics, frame of reference, rotating bodies, rigid bodies etc.
PSO4	To learn the properties of the wave, wave oscillation, superposition of waves, the nature of vibration, and wave properties of sound and light. Introduction of different types of LASER, its construction, working and application, etc.
PSO5	Studying charged particle and magnetic poles and their field, potentials, force, effect of magnetic field on the moving charge and vice versa, the dielectric and magnetic properties of matter, different circuits, and network theorems.
PSO6	Learning the dynamics of ideal and real gas molecules, their statistics and transport phenomena in the kinetic theory of gas. To study the physics of temperature through zeroth law, first law, second law, and third law of thermodynamics and introduction of different thermodynamic parameters, potentials, and their relations.
PSO7	To introduce different digital and arithmetic circuits and components, Boolean algebra, integrated chips, data processing, and microprocessor and computer system.
PSO8	Knowing the source of natural energy, renewable energy, fossil fuel, and energy harvesting.
PSO9	To learn laws regarding radiation, particle nature of the wave, wave-particle duality, wave packet, uncertainty principle, material wave and wave function, and probability of material wave.
PSO10	To study the quantum theory, the time-dependent Schrodinger equation for non-relativistic particles, different operators (position, momentum, angular momentum, energy, etc.), quantum mechanical behavior in different

	potentials, quantum dots, discussion of bound states in an arbitrary potential, harmonic oscillator, quantum theory of hydrogen-like atoms, atoms in electric & magnetic fields, problem of many electron atoms, etc,
PSO11	To learn nuclear parameters, stability, structure, force, radioactivity, alpha, beta, and gamma function, nuclear reactor, accelerator and detector, nuclear reaction, particle physics.
PSO12	Learning of different types of the semiconductor device, their construction, basic principle, working and application, etc., and some electronic circuits such as amplifiers, oscillators, OPAMP, and conversion circuits.
PSO13	Introduction with the different electrical circuit, electrical elements, and their basic principle, electrical drawing and symbols, working and application, electric wire wiring, etc.
PSO14	Knowing the crystal structure, lattice dynamics, phonon, specific heat, dielectric and magnetic properties of the particle, superconductivity, band theory of solids, etc. in solid state physics.
PSO15	To learn the special and general theory of relativity, four vectors, space-time coordinates, etc.
PSO16	To study Maxwell equations, electromagnetic wave in propagation in unbounded media and bounded media and polarization, waveguide and optical fiber in electromagnetic theory.
PSO17	To learn classical and quantum radiation and statistics, details of MB, BE, and FD statistics, ensemble, partition function, relation with thermodynamics, BE condensation, Fermi gas, etc. in statistical mechanics.
PSO18	Introduction to the different astronomical scales, parameters, coordinates, telescope, detectors, details, and formation of the sun, solar family, solar activity, milky way, galaxy, stars, and star cluster.
PSO19	Handling different practical equipment such as mechanical, electrical, optical, electronics, thermal, magnetic, and dielectric equipment. To know their construction, the basic principle, working, data collection and recording, plotting of graph, taking precaution in performing the experiment.
PSO20	Learn to implement the mathematical tools and to perform statistical and quantum mechanical problems in C, C++, and Scilab programming through numerical analysis, algorithms, and flow charts.

PROGRAMME SPECIFIC OUTCOME (PLANT PROTECTION)

Sl. No.	Program Specific Outcome
PSO1	Plant protection is the act of overseeing climate, weeds, pests and diseases that harm or repress the development of natural product, vegetable and other crops.
PSO2	Appropriate plant protection is critical to create better yields with insignificant wastage. This increment in efficiency prompts less land, water and work being needed for food crops. With less land being utilized biodiversity is saved and less ozone depleting substances are transmitted. It additionally guarantees more food arrives at the shops and markets in great condition, which assists with holding the costs down.
PSO3	If we somehow managed to quit utilizing a portion of the more normal assurance techniques with our products of the soil crops, there would be much less decision in the food accessible to purchase on a nearby level. Worldwide yields would drop by roughly 33%. Vegetables we have gotten acclimated with or have underestimated would just be promptly accessible in specific locales. They would be accessible at over the top costs and sketchy newness and quality in others.
PSO4	There are four fundamental ways to deal with effective plant protection, each with changing levels of progress; pesticide based measures, organic nuisance control, obstruction techniques and creature brain science.

PSO5	In better scientific agricultural practice which increase better crop and vegetable production of our locality. Local farmers, students and plant protection department teachers are also involved in interaction which outcome good and scientific agricultural practices in the locality.

Programme Specific Outcomes: Department of Zoology

Sl.No.	Program Specific Outcomes
PSO1	Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, biochemistry, ecology, evolutionary biology, developmental biology and applied and economic zoology.
PSO2	Analyse the relationships among animals, plants and microbes.
PSO3	Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology, Sericulture, Biochemistry, Fish biology,
PSO4	Understand the applications of biological sciences in Apiculture, Aquaculture, Sericulture, Animal Husbandry, Poultry Farm.
PSO5	Gains knowledge about effective communication and skills of problem solving methods.
PSO6	Contributes the knowledge for Nation building
PSO7	Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.
PSO8	Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.
PSO9	Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.

PSO10	Understands the complex evolutionary processes and behaviour of animals.
PSO11	Correlates the physiological processes of animals and relationship of organ systems.
PSO12	Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
PSO13	Gain knowledge of small scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farm.
PSO14	Understands about various concepts of genetics and its importance in human health.
PSO15	Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.
PSO16	Apply the knowledge and understanding of Zoology to one's own life and work.
PSO17	Develops empathy and love towards the animals

PROGRAMME SPECIFIC OUTCOME (BBA)

Sl. No.	Program Specific Outcome
PSO1	To demonstrate and apply the basic and fundamental concept and knowledge of management domains to optimally solve the complex corporate or business oriented problems.
PSO2	To inculcate the ability in students to gain multidisciplinary knowledge through simulated problems, application of theoretical studies into the real time application based approaches, case based study or analysis, projects and industrial training.
PSO3	To develop competent management professionals with strong ethical values with an understanding of societal and ecological issues relevant to professional managerial practice through life-long learning.
PSO4	To act and Function effectively as an individual, and as a member or leader in diverse teams by using managerial principles and within multidisciplinary settings.
PSO5	To Communicate effectively with different users within and outside of a business organization or with various stakeholders.
PSO6	To induce and apply logic and reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities associated with management practice.
PSO7	To identify the opportunities for business operation or entrepreneurship, design and implement innovations in work space effectively and also analyze the management research problems.
PSO8	To understand the problem-solving and strategic planning ability, enhancing the analytical skills and the ability to manage and cope with demands and challenges in the changing and dynamic socio-economic and

	business ecosystem.
PSO9	To emanate Leadership, Creativity, Attitude, Skills, Passions and Learning from its every corner to cast its rays towards empowering business excellence in the Industry and academia.
PS10	To capable of assuming pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities and also induce to undertake independent ventures.

DEPARTMENT OF COMMERCE

PROGRAMME SPECIFIC OUTCOME

PSO-1	<p>By the end of the programme, the student will be able to: -</p> <p>Understand the basic concepts of the commerce, management, accounting and finance, auditing, economics, business mathematics and statistics and computer application in business.</p>
--------------	---

PSO-2	Analyse relationship among commerce, industry, trade, services, management and administration.
PSO-3	Can be able to perform all financial accounting activities in the business area.
PSO-4	Understand application of knowledge of commerce in business service sector industry, marketing, finance, entrepreneurship development etc.
PSO-5	Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator as well as other financial supporting services.
PO-6	Think about commercial and professional way or point of view and to start up a new venture.
PSO-7	Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business. Students will be able to do their higher education and can make research in the field of finance and commerce.
PSO-8	Understanding legal issue/ law relating to financial markets viz. banking and insurance sector and derivative market and they may able to enter in the financial market.
PSO-9	Students will prove themselves in different professional exams like CA., CS, CMA, MPSC, UPSC. as well as other courses. The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
PSO-10	After completion of this programme students may appear in the Government service examination and prove themselves.