

DEPARTMENT OF HISTORICAL STUDIES

Programme Outcomes

- PO1: Familiarization with the main currents in Indian and world History.
- PO2: Analysis of culture, sociology and anthropology with reference to History.
- PO3: Become thorough with the components of History.
- PO4: Develop critical insights into civilization down the ages.
- PO5: Understand the impacts of various conquests and invasions.
- PO6: Perceive the social, political and historical movements.

Programme Specific outcomes

- PSO1: Compare the history of ancient, medieval and modern India.
- PSO2: Develop the right perceptions of the cultural heritage of the social groups.
- PSO3: Understand the regional, national and international geography.
- PSO4: Become thorough with the perceptions of social, political and economic histories of the world.
- PSO5: Develop an insight into the origins' development and disappearances of civilization.
- PSO6: Become critically aware of the connection between history, historian, historical evidences and history makers.

Course outcomes

- CO1: Deal with the background and sources of historical studies.
- CO2: Understand the causes of the rise and fall of empires.
- CO3: Become aware of the functions of archaeological survey across the globe.
- CO4: Develop an acquaintance with the principles, practices and elements of tourism as an industry.
- CO5: Understand the link between Geographical explorations, Inventions of science and historical studies.
- CO6: Become thorough with the various systems and strategies of historical studies.

Measuring the attainment of PO, PSO and CO

The department of history strives to help the students attain the PO, PSO and CO very well. Because of the well designed curriculum and interactive classroom lecturers the students attain the aims and objective of historical study appreciably. Educational tours, field trips and environmental projects also support them the attainment of goal. The student's performances in tests, debates, group discussions and their active participation in the field trips also serve to measure these attainments.

Level of attainment of PO, PSO and CO

PO : Become professionals such as lawyers, journalists and historians.

PSO: Get employment in higher educational institutions, banks, NGO and social work.

CO: Attain the ability to make historical records, identify and read seminal books and read articles in historical journals.



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DEPARTMENT OF ECONOMICS

Programme Outcomes

- PO1: Apply the knowledge of monetary economics in understanding the functions of money and working of banking and money market sectors.
- PO2: Make use of the micro economics theory to understand individual consumer and producer's behaviour with the change in price, demand and supply.
- PO3: With the use of fiscal economics the tax structure and methodology of taxation of the nation is understood.
- PO4: Macro economics study help the students understand the aggregate changes in the economy like Inflation, unemployment and GDP etc.
- PO5: Apply the knowledge of Indian economy to understand the importance of various sectors and think development levels.
- PO6: Studying economics help the students understand the socio economic conditions of human beings and ways and means to adjust with the changes in economic trends.

Programme Specific outcomes

- PSO1: Understand the behaviour of Indian economy and its components.
- PSO2: Gain knowledge of macroeconomic policies of the government and its impact on the Indian economy. For example the policy changes in the present budget and its impact on industry, agriculture and individuals are studied. Step taken by the government are explained to the students.
- PSO3: The outcome of studying the subjects like Indian economic development enlighten the students in the field of poverty level, agricultural development of the nation.
- PSO4: The knowledge gained in the area of self sufficiency in food production make the students think and analyze why self sufficiency is not reached and other sectors like Industrial sectors.
- PSO5: The study of structure of 5 year plans, annual budget, economic plans and objectives are highly informative for the students to understand the role of each and every individual's responsibility to contribute to the development of the country.

Course outcomes

- CO1: The students are able to ascertain the economic changes in the country.
- CO2: The change in GDP level i.e. either increase or decrease indicates the growth ratio of the country. The students are able to compare their present economic status which is due to change in GDP rate.

CO3: The steps taken by the government, for example demonetization, had a greater impact on all kinds of people. The students are able to relate the monetary policy of the government and understand the reason for taking such a drastic measure.

CO4: The subject fiscal economics help the students to understand the tax structure and each and everyone's responsibility to contribute to the nation for making the resource for budgetary allocation. The change in tax structure like GST is understood by the students and they also understand the methods of implementation and its impact on their day to day economic activities.

CO5: The students understand the reasons for farmers' restlessness and agitations due to failure in agriculture production such as the monsoon failure. This has created an impact on the students to protect the environment, consume water and a forestation through these steps they are taking initiative in protecting the environment.

CO6: The policy of globalization helps the younger generations to create more employment. The students through learning international policy and the role of MNC are able to identify the domestic industries are very badly affected. The availability of foreign goods takes away the profits. Through this policy of hire and fire by MNC, there is no job security for the youngsters.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured by tests and examinations. Tests include written tests and oral tests. Year end semester examinations are conducted by the University of Madras. The student's performance in the tests, examinations, assignments, seminars and co-curricular activities are helpful in measuring the attainment. The students' personality, leadership qualities and team spirit are treated as implicit indicators of attainment of PO, PSO and CO.

Level of attainment of PO, PSO and CO

The students make high levels of attainment of PO, PSO and CO
PO: Become economic advisors, economists and lawyers.

PSO: Get employment with financial institutions, marketing and insurance sectors and become legal practitioners

CO: Attain the ability to interpret state and union budgets, construct economic plans and interpret different schools of economic thoughts.



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DEPARTMENT OF TELUGU

Program Outcomes- PO

- PO1: Apply the knowledge of poetry reading with meter method is understanding the function of prosodic order.
- PO2: Make use of the prosody/prosodic theory to understand the poetical value but to produce new rhymes/poems with present ideas.
- PO3: Literary study deals with other fields like Political, Historical, Social, Psychology fields etc. makes the students to think on every aspect of the situation.
- PO4: Linguistics study makes them to know about their origin and present multi Linguistic-social need of globalization.
- PO5: Apply the knowledge of translation theory helps to know worldwide great literary.
- PO6: Studying Journalism helps the pupils to understand the world wide condition of Historical, Social etc and to express their views also.

Program Specific Outcome -PSO

- PSO1: Understand the human values with morality.
- PSO2: Gain knowledge about our traditional and moral values and chronological order of literary aspects.
- PSO3: The outcome of studying subject like folk literary to modern literary makes them thorough with the literature of past to present/today aspects.
- PSO4: The knowledge gained in the area of self sufficiency in food production.
- PSO5: The study/ coaching plan to know the basic computer course, Telugu typing and digital class makes the students to understand the country.

Course Outcomes -CO

- CO1: The students of literature are able to ascertain the changes of students in many aspects.
- CO2: The students are able to analyze easily the changes and hands happened in literary units./ Historical Literary growth with trends to conduct and present papers in International and national level of seminars.
- CO3: The steps taken by the government to improve language stands and literature had a great impact on language or literature students. Because they are able to felt that totally different with other students because of their role of literature study deals with so many aspects.

CO4: As it is already said the study of literature deals with other subjects makes them to know the moral values, physical and psychological changes personality development, values of depth in communication skills with utmost qualities of team management

CO5: The students understand the reason of present issues like demonetization, Nirbaya case, etc., helps not only to know but to perform and follow the rules and condition by studying journalism as one paper.

CO6: The policy of literary elicitation makes the kids to know their origin, language, literature with socio, economical, historical and philosophical values to create jobs as such teachers, poets, critics, lyricists, translation, journalists, script writers in technical fields. Especially in civil position also.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured not only by tests and examinations it deals with the students active participation in inter, intra Department College and university quiz, national, international level seminars, symposium etc., yearend semester examinations conducted by various universities may present their marks as promotion but other activities are helpful in measuring their personality development. Thus personality development qualities, leadership qualities and team spirit are treated as implicit indicators of attainment of PO, PSO and CO.

Level of attainment of PO, PSO and CO

PO: Become Scholars, Poets and researchers.

PSO: Get employment with governmental, non-governmental bodies, teaching, and journalists and can become translators etc.

CO: Attain the ability to interpret state and national level issues as freelance journalists and interpret different human values of socio and economical issues timely.



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DEPARTMENT OF ENGLISH

Program Outcomes- PO

- PO1: Familiarization with literature: Acquire a thorough knowledge of English literature and language and apply the acquired knowledge to appreciate the elements that go into the making of literature.
- PO2: Literary analysis: Read and analyze literary works of various Ages and formulate the basic skills for appreciating them. Examine the basic literary theories and linguistic concepts.
- PO3: Constructing necessary strategies: Construct a cluster of strategies to learn the culture of different countries, various social, political and religious festivals and learning the native tradition.
- PO4: Develop the ability to wield English as a tool to understand and interpret the world.
- PO5: Higher education and employment: Increase and ensure the scope for higher and professional education and employment.
- PO6: Contribution to learning and teaching: Contribute to learning by participating in the classroom interactional activities and contribute to teaching by delivering talks on the subject.

Program Specific Outcome -PSO

- PSO1: Understand the literature in English and acquire competence in English language.
- PSO2: Understand the communicative aspect of English and develop an insight into literary aspects
- PSO3: Ascertain the literary trends and movements and schools. Perceive the division of literary Ages
- PSO4: Interlink the Social History, Political Economy, Psychology, Sociology and Anthropology with literature. Attain the ability to ascertain how humanities and science influence literary works
- PSO5: Compare literatures of the world. Study of comparative literature and literature in translation
- PSO6: Acquire the necessary linguistic competence and develop the ability to perform well in all contexts.
- PSO7: Effectively communicate ideas related to the literature in both personal and professional contexts.

Course Outcomes -CO

CO 1: Enumerate the literary forms and functions

CO2: Describe the grammatical features such as words, sentences, pronunciation and spelling CO 3: Write and speak comprehensible English

CO4: Use English language in day-to-day situations

CO5: Accumulate the necessary tools such as dictionaries, glossaries, and thesaurus. Become familiar with using the dictionary of literary terms, glossary of phrasal verbs and idioms and phrases

CO6: Become a cub in Journalism; achieve proficiency and tertiary level competence and performance.

Measuring the attainment of PO, PSO and CO

Distribution of measurement in terms of marks to the maximum of 75

Objective type –understanding - 10 marks (no choice) (10X1=10)

Objective type –appreciation - 10 marks (no choice) (10X1=10)

Paragraph answers - 25 marks (5 out of 7) (5X5=25)

Exhaustive enumeration - 30 marks (3 out of 5) (3X10=30)

Feedback is obtained from the students regarding the syllabus content. Item analysis is carried out for the class tests. The scores are tabulated item wise and the weakness and strength of the students' are analyzed. This tabulation highlights the item difficulty which is measured by the proportion of correct and incorrect answers. It is necessary to illustrate the item analysis of a test paper.

Serial	Type	Nature	Maximum Marks	Marks scored
1-10	Objective	Understanding the theory part	10	3
11-20	Objective	Appreciating the creative works	10	4
21-27	Subjective	Understanding and appreciating the creative works	25	16
28-32	Subjective	Understanding and appreciating the creative works	30	18
Total			75	41

The tabulation highlights that the learner has specific difficulty with the objective type questions. As a remedy, the student is exposed more to the objective aspects of the subject and the question paper. A bridge course is constructed and offered to the students. However, if majority of the students have scored below average in any one item, the reason for the items difficulty is identified and is taken to the knowledge of the University of Madras. The value of difficulty is viewed seriously. Item analysis is useful to direct the attention of the learners to the area of weakness. Item analysis has a high expository and directional value. This micro analysis and interpretation is supportive in measuring the attainment of PO, PSO and CO.

Level of attainment of PO, PSO and CO

PO: The students benefit socially, personally and academically. They optimize their potentials as individuals and members of society.

PSO: The world has become a village because of internet and English is the language of internet. The students become so communicative that they can communicate with the citizens of the world.

CO: The students become proficient in 'structuring' 'restructuring', 'analyzing' and 'interpreting' literature. They go to higher education or find employment in language and communication industry.



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DEPARTMENT OF CORPORATE SECRETARYSHIP

Program outcomes

- PO1: Understanding managerial and operational functions and principles in business and related areas.
- PO2: Update accounting standards in accordance with professional groups' guidelines
- PO3: Understand the cost structure and the tax planning system
- PO4: Understanding the GST structure, principles, registration and filing of returns.
- PO5: Recognize contemporary marketing and advertising trends.
- PO6: Evaluate how corporate entities uphold human values and corporate ethics.

Specific Outcomes

- PSO1: To expose students to real-world situations in order to prepare them for the rigours of today's corporate environment.
- PSO2: To get a thorough understanding of the principles of accounting, business, finance, management, law, entrepreneurial development, and income tax.
- PSO3: To gain practical knowledge in GST registration and filing of returns.
- PSO4: Imparting legal knowledge helps students comprehend how businesses, factories, and government are governed.
- PSO5: Acquire hands-on experience in the banking, insurance, and corporate annual accounts preparation.
- PSO6: Cultivating the traits of a successful entrepreneur
- PSO7: Gain skills to stand out in the employment market.

Course Outcome

- CO:1 Become professional Accountant
- CO2: Facing the different issues in corporate sector as a company secretary
- CO3: Attain positive employment opportunity
- CO4: Industrial Visit helps the students to know the execution of business activities in industries.

CO5: Attain the ability to audit accounts.

CO6: Institutional training of one month aid the students to get real time practical experience in accounts, human resource management, administration of different departments and exclusively the company secretary roles and functions.

CO7: The student's desire to become an entrepreneur is sparked by the entrepreneurial exposure they received.

Measuring the attainment of PO, PSO and CO

Regular test is conducted to analyze the students' strength and weakness of the students. Aptitude test is conducted to measure the level up efficiency of students. Unit test are highlight the performance of the students at each stage. The overall mark scored by the student is used to determine the internal marks to be awarded.

Level of attainment of PO, PSO & CO

PO: The students become company secretaries and successful entrepreneur.

PSO: Become knowledgeable about the banking system and industrial legislation.

CO: Develop the ability to create business plans required in today's tough business environment.



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DEPARTMENT OF COMMERCE

Program Outcomes

- PO1: Familiarization with Commerce: Acquire a thorough knowledge of Commerce and apply the knowledge of Commerce to understand the world.
- PO2: Accounting System: Acquire a fair competence in Accounting System.
- PO3: Analyze the interlink between Commerce and Accountancy
- PO4: Creativity: Inculcation of creativity in accounting system.
- PO5: Higher education and employment: Widen the opportunities of higher education and increase the employability of the students.
- PO6: Contribution to national economy: Contribute to the development of national economy by inventing useful, profitable and beneficial commercial procedures.

Program Specific Outcome

- PSO1: Develop commercial attitude in the backdrop of social values.
- PSO2: Groom the accounting skills and understand the various accounting systems.
- PSO3: Realize the vitality of commerce and trade.
- PSO4: Perceive the regional, national and international commercial practices.
- PSO5: Become through with Business correspondence and communication.
- PSO6: Acquire the necessary skills to use ICT in order to become familiar with e-commerce and online trading.

Course Outcomes

- CO1: Develop the ability to understand commercial trends. CO2: Become competent accountants.
- CO3: Attain the ability to audit different accounts
- CO4: Develop the necessary skills to analyze and understand the co-ordination among Statistics, Economics, Commerce and Accountancy.
- CO5: Observe, analyze and interpret Commerce and Accountancy.
- CO6: Analyze the impact of Commerce in society, politics and administration.

Measuring the attainment of PO, PSO and CO

Diagnostic test is conducted to analyze the strength and weakness of the students. Aptitude test is conducted to ascertain the proficiency level of the students. Unit tests highlight the significance of each unit of the syllabus. The cumulative score of the students is used to determine the internal marks of the students. It is also used to bring in the necessary changes in the teaching strategies.

Level of attainment of PO, PSO and CO

PO: The students come out to be commerce professionals and confident entrepreneurs.

PSO: Become expert accountants and auditors.

CO: Develop the capacity to construct commercial strategies at various levels.



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DEPARTMENT OF MATHEMATICS

Programme Outcomes:

- PO1: Enable the students to enhance computational skills and mathematical reasoning.
- PO2: Formulate, analyze and solve wide variety of problems in Mathematics.
- PO3: Students will acquire basic practical skills and technical knowledge along with domain knowledge of different subjects in the science stream.
- PO4: Enable the students in building a solid foundation for higher studies in Mathematics.
- PO5: The skills and knowledge gained leads to proficiency in analytical reasoning which can be utilized in modelling and solving real life problems.
- PO6: Develops the ability to think critically, logically and analytically thereby preparing the students to enhanced career opportunities in Industries, Commerce, Education and Research.

Programme Specific Outcomes :

- PSO1: Provide students sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics.
- PSO2: Develops broad and balanced knowledge and understanding of definitions, concepts, principles and theorems.
- PSO3: Enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problems in Mathematics.
- PSO4: Familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related science.
- PSO5: Recognize and appreciate the connections between theory and applications.
- PSO6: Encourage the students to develop necessary skills helpful in employment and internships.

Course Outcomes:

- CO1: Introductory topics like classical Algebra, Trigonometry, Calculus, Geometry, Number Theory and Numerical Analysis are taught to apply mathematical concepts and principles to perform computations.
- CO2: Subjects like Differential Equations, Transform Techniques, Principles of Mechanics are introduced to improve the subject knowledge of the students for applying mathematics in various other fields of science.
- CO3: Abstract nature of specific subjects such as abstract algebra, analysis of both Real and Complex problems have been introduced.
- CO4: For advance learning, elective areas of specific subjects such as Graph Theory & Operations Research have been introduced.
- CO5: Demonstrate the ability to apply analytical and theoretical skills to solve mathematical problems and to create, use and analyze graphical diagrammatic representation of Mathematical relationships.
- CO6: Elective subject C Programming has been introduced to apply technology tools in solving problems.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured by internal assessment test, group discussion by students on Mathematics topics and by giving regular assignments and seminars for students.

Level of attainment of PO, PSO and CO

Students completing this programme become well versed in the concepts of basic mathematics and aptitude skills. Completion of this programme will also enable the learners to join teaching profession in primary and secondary schools. This programme will also help students to enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.



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DEPARTMENT OF TAMIL

Program Outcomes- PO

- PO1: Acquire knowledge through Tamil literature & language and develop intellectual, personal and professional abilities through the acquired knowledge.
- PO2: Develop the standard of behavioural attitude through the literary subjects and become socially responsible citizens.
- PO3: Get information about the history of ancient, medieval and modern Tamil literature.
- PO4: Develop competency in literary forms (Tamil Poetry and Fiction).
- PO5: Nurture themselves in basic literacy skills and develop research aptitude.
- PO6: Be motivated for further education and find jobs for their livelihood.

Program Specific Outcome -PSO

- PSO1: Become familiar with the conventions of diverse textual genres of Tamil literature.
- PSO2: Understand and analyze the linguistic, cultural and historical background of texts written in Tamil.
- PSO3: Show the direction to live a purposeful life as reflected through Tamil literature.
- PSO 4: Develop language and communicative skills.
- PSO 5: Develop aesthetic sense to appreciate literature and life.
- PSO 6: Perceive the classical status of Tamil language.

Course Outcomes -CO

- CO1: Obtain more information about the culture and traditions of Tamil society.
- CO2: Know more about the history and development of Tamil language and literature.
- CO3: Aim at enriching human excellence; increasing the level of comprehension and exercising communal harmony.
- CO4: Students who did not learn Tamil up to their Higher Secondary level are able to know the basics of Tamil language through the course of 'Basic Tamil' and acquire the ability to write composition, letter and vocabulary.
- CO 5: Develop the ability to comprehend literary texts of ancient, medieval and modern Tamil literature.
- CO 6: Show interest to create literature.

Measuring the attainment of PO, PSO and CO

Class tests are scheduled by the faculties of the Tamil department and after the valuation the analysis is done, after which the strategy for improvement is made. Home assignments and class room assignments are given to the students and seminars are conducted, which help us to measure the attainment of Program Specific Outcomes. Apart from these tests, oral tests and quiz competitions are also conducted, which help us to know the knowledge and information of the students. Analysis of student's performance in internal tests is done. Maximum 25 marks are allotted in internal examinations (10 marks for test, 5 marks for assignment 5 marks for seminar and 5 marks for attendance), which is added to their results. Analysis of terminal examination results is also done. After the analysis strategy for improvement is made and implemented. The analysis of student's performance in annual examination is done to know the levels of attainment of POs, PSOs and COs.

Level of attainment of PO, PSO and CO

PO: Students understand the importance of social interaction, effective citizenship, ethics and morality thereby they contribute to the society personally and professionally as for Tamil Language and literature.

PSO: They understand the literary values and attain the native proficiency in Tamil language and literature.

CO: They acquire the ability to engage in independent and life-long learning and develop the capacity to educate others in literary appreciation and language usage.



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DEPARTMENT OF HINDI

Programme Outcomes

- PO1: Introduction to prose literature (Ist Year)
- PO2: Familiarization with the Hindi Prose (Ist Year)
- PO3: Introduction to Functional Hindi (Ist Year)
- PO4: Acquire a though knowledge of Functional Hindi (Ist Year)
- PO5: Introduction to letter writing, Noting & Drafting (Ist Year)
- PO6: Acquire a though writing, Noting & Drafting (Ist Year)
- PO7: Understanding and analyzing the inter-link/inter-dependency of literature with society, fine arts, philosophy and science & technology
- PO8: Creativity, Sense of responsibility.
- PO9: Contribution to Indian writing in Hindi

Programme Specific outcomes

- PSO1: Develop literary attitude-reading, writing, criticism, review, analyzation, evolution.
- PSO2: Enhancing the understanding level, writing and reading.
- PSO3: Realize the vastness, depth, versatility, vitality of the literature and arts.
- PSO4: Perceive the rural, urban, zonal, regional, national, international literary practices.
- PSO5: Acquire the basics/necessary skills to use ICT in order to become familiar with E-Learning, E-Writing, E-Publishing.

B.A., B.Sc., B.Com Semester –I

Paper-I, Prose, Functional Hindi, Letter writing

Course Objective

In Paper-I, Prose, Functional Hindi & Letter writing are taught to highlight the actual description of the society and Functional Hindi makes the student to develop their Vocabulary in the Administrative usage of Hindi in various sectors like Banking, Secretariat and official language Departments.

Course Outcome

By Completion of this course, the students will be able to

1. Develop reading, writing, speaking and listening skills.
2. Understand the ideas and concepts of the great writers
3. Apply the various techniques used in writing letters such as leave letters, complaint letter, official letter, Business and Personal Letters.
4. Analyze the concepts used in the prescribed prose texts.
5. Evaluate the writing techniques used by the prose writers.
6. Create error free official memos, Government orders, Notification, Notice and various forms of official Correspondence

B.A., B.Sc., B.Com –Semester-II

Paper-II- One Act Play, Short story-Translation

Course Objective

In Paper-II, One Act Play, Short story and Translation are taught to highlight the social issues and sceneries in the form of Role Play. Translation helps the students to build their command over Vocabulary and Understanding aspect

Course Outcome

1. Memorize the new vocabulary learnt from translation practice(English to Hindi)
2. Understand to plots, subplots in the One Act Play.
3. Analyze the complex themes in One Act Plays and Short stories.
4. Evaluate the writing techniques used by Play Writers and Short stories writers.
5. To learn the skill of conversation, dialogue writing, Mono writing and enactment.
6. To have competency over the source and target language Hindi and English vice versa.

B.A / B.S.C/B.Com Semester – III

Paper –III – Ancient poetry, History of Literature Aadi Kaal, Bhakti Kaal, Reeti Kaal

Course Objective-

Ancient poetry and History of Literature are taught to analyze the different literary periods and their creative writings that helped to build the ancient and current society.

Course Outcome-

By the completion of this Course, the students will be able to

1. Describe the trends in ancient poetry during different literary periods.
2. To Understand the themes and concepts used in poetry.
3. Analyze the poetic elements used by poets like Surdas, Tulasidas, Kabirdas, Raheem, Tiruvalluar etc.
4. Writing essays on prescribed poems.
5. To Understand the Background of the various ages of the History of Hindi literature and their feature and trends.
6. Will be able to learn creativity skill of poems and other literary terms.

B.A/ B.S.C/ B.Com Semester- IV

Paper- IV – Modern poetry and Hindi literature- Aadhunik Kaal.

Course Objective

Modern poetry and introducing to the History of Hindi literature (Aadhunik Kaal) are taught to analyze the modern different literary periods and the creative writings that helped to build the modern and current society.

Course Outcome-

By the completion of this course the students will be able to

1. Describe the literary trends in modern poetry.
2. Understand the characteristics of poetry in different periods
3. Analyze the poetic techniques used by the modern poets.
4. Evaluate the techniques used in short stories and one act plays.
5. Writing Essays on modern writers and their works.
6. Able to Interpret and illustrate concepts of communication, poetry and the Modern History of Hindi literature.

Measuring PO the appointment of PSO and CO

A serial of tests are conducted to analyze the positive, negative, strength and weakness of the students. Proficiency test is conducted to observe and ascertain the proficiency level of the students. Class tests, unit tests, university internal tests highlight the significance of each unit of the syllabus. The obtained score of the students is used to determine the internal marks of the students.

PO: The students come out to be the Artists, Journalists, Hindi officials, Teachers, Tutors, Professors, DJs, even Managers, Editors, Publishers, Reviewer critics, Announcers, News Readers, other professionals and entrepreneurs.

PSO: Become Great/expert scholars

CO: Enhance the capacity to construct and organize literary strategies at various levels.



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DEPARTMENT OF ACCOUNTING AND FINANCE

Program Outcome-PO

- PO1: Familiarization with financial statements and accounting reports
- PO2: Analysis of monetary transactions: Study the monetary transactions in journals, ledgers and other such subsidiary books.
- PO3: Analyze the financial position of the organizations.
- PO4: Understand the financial transactions among various organizations and learning the art of book-keeping.
- PO5: Analyze the scope and importance of foreign trade and foreign exchange.
- PO6: Contribution to Accounting and Financial Systems: Contribute to the innovation, development and creativity in tracing and accounting financial transactions.

Program Specific Outcome –PSO

- PSO1: Perceive the close linkage and correlation of Finance and Accounting with subjects such as Commerce, Economics and Business Administration.
- PSO2: Cope-up with the emerging trends of accounting in modern world.
- PSO3: Develop perceptions of the specialized, fool proof and verifiable methods of Accounting and Finance.
- PSO4: Maintain Accounts independently; identify the strong points and the deficiencies of the accounting system.
- PSO5: Neglect the arithmetical procedures and acquire mathematical knowledge essential for accounting
- PSO6: Understand the allied fields of taxation and auditing.

Course Outcomes - CO

- CO1: Deal with the accounting system very efficiently.
- CO2: Develop a keen insight into the aspects of financial transactions.
- CO3: Maintain financial records and sheets scientifically and systematically.
- CO4: Develop the ability to meet the changing requirements of accountancy and standardize the procedures of accounting.
- CO5: Acquire competence to identify and weed out the corrupt methods, tax evasions and anti-accounting values.
- CO6: Record micro and the macro accounts efficiently.

Measuring the attainment of PO, PSO and CO

The curriculum is designed in such a way as to develop and measure the accounting skills of the students. It includes the theoretical part and the practical aspects of finance and accounts. The internal assessments tests give equal due and coverage to both the theory and practice he students are encouraged to undergo real time projects. Oral tests, quiz program and group discussions are also useful in measuring the attainment of PO, PSO and CO. The students knowledge and performance in accounting and book-keeping is assessed in the commerce laboratory too.

Level of attainment of PO, PSO and CO

PO: Become professional accountants and financial administration.

PSO: Get employment with banking, marketing, insurance and expert and import sectors.

CO: Attain the ability to maintain accounts accurately, neatly, honestly, transparently, verifiably and professionally.



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DEPARTMENT OF BUSINESS ADMINISTRATION

Programme Outcomes

- PO1: Acquire the strong knowledge of management practices.
- PO2: With the use of marketing management theory gives sound knowledge of strategy to sell the product/service globally.
- PO3: Studying financial services theory help the students understand the various products of banking and its operation.
- PO4: Apply the knowledge of management accounting for future venture development.
- PO5: With the use of management papers, students learn human behavior and value that knowledge to do business ethically in future.
- PO6: The collaboration subjects of management and accounting practice papers enhance the students' skills and ability on business administration efficiently.

Programme Specific outcomes

- PSO1: Gain the knowledge of innovative business ideas.
- PSO2: Understand the successful entrepreneur's histories which encourage our students to be entrepreneurs.
- PSO3: Sound knowledge on marketing concepts and customer relationship management.
- PSO4: Academic- institutional training gives good practical exposure to our students on industries (Internship and project viva-voce).
- PSO5: Research knowledge enlightens the students in the field of marketing, finance, human resource and production.
- PSO6: Human resource management and organizational behavior subjects mould the student's attitude and behavior in right way.

Programme Course outcomes

- CO1: The students are able to learn keenly administration of business.
- CO2: Create theoretical and practical frameworks of business management.
- CO3: Develop the current trends of Business.
- CO4: Business regulatory framework teaches the students to do a business ethically and legally in future.
- CO5: Through the course, our students become job creators than job seekers. So employment opportunities are developed in our country.
- CO6: Management decision making ability is inculcated in the students who develop smart thinking ability to do business.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured by continuous internal assessment test, seminar, assignments and semester examination conducted by University of Madras. It is also measured by the students' performance in co-curricular activities and department activities. The attitude and behavior is also one of the indicators of PO, PSO and CO; overall the students' intellectual level and capability are measured academically.

Learning Methodology:

In order to make possible effective learning, the following methodology is required to be followed by colleges offering the program as per the guidelines provided by the University of Madras:

- Class room teaching
- Case study
- Industry Learning through Internship and Project viva-voce
- Self-study

Level of attainment of PO, PSO and CO

PO: Become entrepreneurs or managers in organization.

PSO: Get employment in banking sector, insurance sector, IT sector, Government sector etc.

CO: Construct business models according to the environment of market.



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DEPARTMENT OF COMMERCE

B.COM (GENERAL), M.COM & M.PHIL

Program Outcomes

- PO1: Familiarization with Commerce: Acquire a thorough knowledge of Commerce and apply the knowledge of Commerce to understand the world.
- PO2: Accounting System: Acquire a fair competence in Accounting System.
- PO3: Analyze the interlink between Commerce and Accountancy
- PO4: Creativity: Inculcation of creativity in accounting system.
- PO5: Higher education and employment: Widen the opportunities of higher education and increase the employability of the students.
- PO6: Contribution to national economy: Contribute to the development of national economy by inventing useful, profitable and beneficial commercial procedures.

Program Specific Outcome

- PSO1: Develop commercial attitude in the backdrop of social values.
- PSO2: Groom the accounting skills and understand the various accounting systems.
- PSO3: Realize the vitality of commerce and trade.
- PSO4: Perceive the regional, national and international commercial practices.
- PSO5: Become through with Business correspondence and communication.
- PSO6: Acquire the necessary skills to use ICT in order to become familiar with e-commerce and online trading.

Course Outcomes

- CO1: Develop the ability to understand commercial trends.
- CO2: Become competent accountants.
- CO3: Attain the ability to audit different accounts
- CO4: Develop the necessary skills to analyze and understand the co-ordination among Statistics, Economics, Commerce and Accountancy.
- CO5: Observe, analyze and interpret Commerce and Accountancy.
- CO6: Analyze the impact of Commerce in society, politics and administration.

Measuring the attainment of PO, PSO and CO

Diagnostic test is conducted to analyze the strength and weakness of the students. Aptitude test is conducted to ascertain the proficiency level of the students. Unit tests highlight the significance of each unit of the syllabus. The cumulative score of the students is used to determine the internal marks of the students. It is also used to bring in the necessary changes in the teaching strategies.

Level of attainment of PO, PSO and CO

PO: The students come out to be commerce professionals and confident entrepreneurs.

PSO: Become expert accountants and auditors.

CO: Develop the capacity to construct commercial strategies at various levels.

MASTER OF COMMERCE (M.Com)

PROGRAM OUTCOMES FOR M.COM (GENERAL COMMERCE)

- PO1: Critical Thinking: Take informed actions after identifying the assumptions that frame out thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2: Problem Solving Solve problems from the disciplines of concern using the knowledge, skills and attitudes acquired from humanities / sciences/mathematics/ social sciences.
- PO3: Effective Communication Speak read writes and listens clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by commuting people, ideas, books, media and technology.
- PO4: Individual and Team Work. Function effectively as an individual, and as a member or leader in diverse teams, and in wide variety of settings.
- PO5: Ethics: Understand multiple value systems including your own, the moral dimensions of your decisions, and accept responsibility for them.
- PO6: Environment and sustainability: Understand the impact of technology and business practice in societal and environmental contexts, and sustainable development.
- PO7: Self-directed and life-long learning Demonstrate the ability to engage in independent and long learning in the broadest context socio-technological changes.
- PO8: Computational Thinking: Understand data-based reasoning through translation of data abstract concepts using computing technology-based tools.

DEPARTMENT OF INFORMATION SYSTEM MANAGEMENT

Programme Outcomes

- PO1: Analyze the available trends in new management concepts.
- PO2: Acquire conceptual knowledge of management, commerce and computer science subjects.
- PO3: Innovative management practices and its outcome through computer knowledge.
- PO4: Co-ordinate various software practices and their applicability in administrative scenario.
- PO5: Rationale understanding of both computers and management paves way for an extensive approach.
- PO6: Business studies and its computer practices give students a wider scope in job market.

Programme Specific outcomes

- PSO1: Apply subject knowledge in framing new computer frameworks and languages.
- PSO2: The knowledge gained by the students through both computer and management subjects gives them awareness into both the fields extensively.
- PSO3: Self-sufficiency in development of new applications in software ensures individual development in student career.
- PSO4: Developing the ability to implement various management practices through computer knowledge.
- PSO5: Internship training for students enables they attain an in-depth knowledge into the organizational structure and its activities.
- PSO6: Business related studies ensure an analytical view on management through computers.

Course outcomes

- CO1: The students become able administrators with high level computer knowledge to face the competitive world.
- CO2: Students are moulded into software professionals who can design and computer techniques.
- CO3: In-depth knowledge on commerce, management and computer science develops an extraordinary output from the students.
- CO4: Acquire knowledge of system through ICT devices develops a balance between computer and computations.
- CO5: They start perceiving the interaction of computers and management concepts.
- CO6: Creation of theoretical and practical concepts of both management and computer science assures job enlargement and graph.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured through internal assessments, conducting of workshops, guest lectures, internship training to students and conduct of case study analysis, discussion and team tasks. In general, on a whole the attainment of these standards are assured by general emphasis on theoretical and practical concepts and their applicability.

Level of attainment of PO, PSO and CO FO

Become a well versed computer professional as well as a management professional. PSO: Enhancement of leadership quality and managerial proficiency. CO Marked improvement in employability skills on 3 major disciplines viz., management, computer science and commerce.



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DEPARTMENT OF COMPUTER APPLICATION

Program Outcomes

- Provide strong foundations in fundamentals of Computer Science and applications, interdisciplinary courses and electives for widening the domain expertise.
- Design and develop software based solutions for real world problems, serving effectively to the requirements of computer field and Society
- Attain sufficient knowledge related to computer domains, possesses technical, soft and hard skills and apply them effectively in team work
- Empower the students with competencies in creative thinking and problem solving, inter-personal communication and managerial skills.

Program Specific Outcomes

- Computational Knowledge
- Problem analysis & Solving
- Design & Development of Solutions
- Modern tool usage
- Communication skills
- Innovation & Entrepreneurship
- Societal & environmental concern

Course Outcomes

After Completion of the course, the students are expected to

- Understand the basic principles and concepts of Computer applications and integrate the knowledge gained in Computer application domain with practical needs of the society and be an ethically and socially responsible Computer Application Professional.
- Explore emerging technologies in diverse areas of Computer Application and inculcate skills for successful career, entrepreneurship and higher studies.
- Ability to apply the concepts of Computer and practices via emerging technologies and Software development tools.



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DEPARTMENT OF COMPUTER SCIENCE

Programme Outcomes (PO):

1. Understand the basic principles and concepts of Computer Science and integrate the knowledge gained in Computer Science domain with practical needs of the society and be an ethically and socially responsible Computer Science Professional.
2. Explore emerging technologies in diverse areas of Computer Science and inculcate skills for successful career, entrepreneurship and higher studies.
3. Apply the concepts of Computer and practices via emerging technologies and Software development tools.

Programme Specific Outcomes (PSO):

1. Computational Knowledge
2. Problem analysis & Solving
3. Design & Development of Solutions
4. Modern tool usage
5. Communication skills
6. Innovation & Entrepreneurship
7. Societal & environmental concern

Course Outcomes (CO):

1. Acquisition of Knowledge and understanding of systems, various programming languages and tools required for effective computation based problem solving.
2. Utilize emerging technological tools to learn, adapt and successfully rite effective procedural coding meeting the needs of technical and societal challenges.
3. Attain sufficient knowledge related to computer domains, possess technical, soft and hard skills and apply them effectively in team work.
4. Empower the students with competencies in creative thinking and problem solving, interpersonal communication and managerial skills.



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DEPARTMENT OF ELECTRONICS SCIENCE

Programme Outcomes

PO1 – Electronics Knowledge

Apply knowledge of Mathematics, Electronics Science and Physics for solving problems and modeling.

PO2 – Problem Analysis

Design of experiments using new electronic tools. Analyzing those designs and enable to make own projects. This helps to identify, formulate, research and analyze difficult electronic problems.

PO3 – Electronics and Society

Develop new technique for helping the society using Electronics. Understand and correctly interrupt the impact of electronics for global solutions.

PO4 – Modern Tool Usage

Apply appropriate techniques, resources and modern attitudes, IT tools to complex Electronic activities and research, Arduino boards and Interfacing Blinking of an LED, LCD, IR Sensor, Gas Sensor, Heart beat sensor, Stepper motor.

PO5 – Investigation of Complex problems

Using research based knowledge and Research methods including designing of experiments and analyzing data.

PO6 – Life – Long Learning

Engage in life-long learning; demonstrate knowledge and understanding the issues related to their domain.

Programme Specific Outcomes (PSO)

PSO1: Understand the basic concepts and applying the knowledge of Electronics and Physics fundamentals.

PSO2: Analyze the circuit concepts, Basics of Physics and Electronics

PSO3 : Perform procedures as per the laboratory standards in the areas of Basic Electronics, Digital electronics, Basic Physics, Amplifiers and Oscillators, C and C++ Programming, Microprocessor, Microcontroller and Real Time Embedded Systems.

PSO4: Understand the Concepts and Applications of Electronics in Medicine, Antenna, Television, Computer Networks, Python, Arduino, Raspberry Pi, Consumer Electronics, Robotics & Automation

PSO5: Acquire the strategies of problem solving in Electronic Circuits.

PSO6: Develop Research Oriented Skills.

PSO7: Understand how to handle the sophisticated Instruments.

Course Outcomes (CO)

CO1: ELECTRONIC DEVICES

- Recognize the diodes as rectifiers
- Identify the operation of transistors and as switching circuits
- Compare the operation of transistors and FETs
- Describe the fundamental operation of semiconductor electronic devices

CO2: PRINCIPLES OF COMMUNICATION

- Describe the basic principles of communication system
- Differentiate analog and digital communication systems
- Demonstrate the parameters for various types of modulation and demodulation techniques
- Identify basic communication problem
- Analyze transmitter and receiver circuits
- Compare design issues, advantages, disadvantages and limitations of communication systems
- Define satellite system
- Differentiate the advantages and disadvantages of geostationary satellites

CO3: PROGRAMMING IN C

- Implement programs using Functions, Pointers and Structures in C language
- Implement files and perform file operations.
- Perform the execution of programs written in C language.
- Identify the C code for a given algorithm.

CO4: MICROPROCESSOR – INTEL 8085

- Describe the architecture of 8085 microprocessor
- Analyze assembly language programmes
- Implement programme efficiency using various addressing modes
- Perform Interfacing of memory & various I/O devices with 8085 microprocessor

CO5: COMPUTER NETWORKS

- Explain the OSI Reference Model
- Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
- Describe the functions of Physical, Data Link, Network layers in OSI model
- Define the transport, session and presentation layers

CO6: REAL TIME EMBEDDED SYSTEM

- Explain Arduino environment and its applications
- Design Smart systems applications
- Implement circuits using Arduino
- Perform Raspberry Pi using the programming language Python
- Analyze the IOT based applications

CO7: BIOMEDICAL INSTRUMENTATION

- Describe the origin of biopotentials and explain the role of biopotential electrodes;
- Design and operate biopotential amplifiers
- Describe common biomedical signals and distinguish characteristic features
- Measure biomedical information
- Demonstrate the position of biomedical instrumentation in modern hospital care
- Explain the Physiological assist devices and Computer Applications

CO8: CONSUMER ELECTRONICS

- Explain the functions of microwave oven
- Perform electronic fund transfer and online ticketing
- Describe the working of Airconditioner and Refrigerator
- Define the basics behind facsimile machine, calculators and digital clocks



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DEPARTMENT OF STATISTICS

Program Outcomes- PO

- PO1: Familiarization with Statistics: Acquire a complete knowledge of Statistics (a science of variation) and its associative fields and subjects.
- PO2: Become through with the functions of Statistics and understand its limitations.
- PO3: Attain complete and comprehensive co-ordinations of Mathematics and Statisticalelements.
- PO4: Creativity: Use statistical concepts and Analytical tools creatively and acquire researchbased knowledge.
- PO5: Acquire a fair knowledge of latest trends in statistical methods for Social welfare.

Program Specific Outcome -PSO

- PSO1: To Understand the different important and essential concepts of Statistics and Mathematics.
- PSO2: Acquire the basic skills and techniques to use the elements of Statistics.
- PSO3: Define Process and project concepts and the role played by statistical tools.
- PSO4: To understand and use the statistical tools of various social and economic welfare projects.
- PSO5: Acquire the basic knowledge of sampling techniques, unbiasedness and adequacy of data.
- PSO6: Acquire the necessary skills to use statistical theories for business, industries and educational needs.

Course Outcomes –CO

- CO1: To understand the basic concepts in Statistics and its applications in various fields.
- CO2: To know about basic concepts in probability, probability concepts, ProbabilityDistributions and to use it in real life situations
- CO3: To learn about sampling distributions and to understand the concepts of testing of hypothesis.
- CO4: Enhanced different optimization techniques and know to optimize the problem in business environment.

CO5: To understand the concepts of statistical Inference and the application of non-parametric tests.

CO6: To understand different sampling procedures with its mathematical derivations and to able to apply different sampling techniques in different situations.

CO7: To understand the concepts SQC and DOE and its different types of application in industries.

CO8: To understand official statistics and its role in framing policies in Economics and Business.

Measuring the attainment of PO, PSO and CO

The attainment of PO, PSO and CO is measured by Continuous Internal Assessment Tests and Semester end examinations conducted by the University of Madras. It is also measured by the students' performance in project assignments and survey related tasks. The practical computations are useful in ascertaining how the students have utilized the statistical methods in real life contexts. Practicability and appropriateness are treated to be criterions of attainment of outcomes. In general, the attainment is measured by a general emphasis on intellectual activity.

Level of attainment of PO, PSO and CO

PO: Become proficient in Statistical concepts and demonstrate key concepts of statistical methods.

PSO: Become competent in theories of statistics, statistical methods, Industrial and official statistics.

CO: Make Statistics an essential science of high human values.



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DEPARTMENT OF PG ECONOMICS

Programme Outcomes

- PO1: Understand the main Mathematical models across all fields of Quantitative Economics
- PO2: Have in-depth knowledge of relevant National and International economic conditions and its impact on individuals.
- PO3: Know how to use an econometric approach to model economic phenomenon, estimates the resulting model, and interprets the estimated parameters
- PO4: Demonstrate mastery of the issues, theories and latest advances in at least one of the sub-fields of economics
- PO5: Have profound knowledge about the implications of research ethics and professional responsibilities
- PO6: Possess insight into and understanding of the societal conditions under which economic and social policies are implemented

Programme Specific outcomes

- PSO1: The Student acquires the application and integration of knowledge in applying the economic theories in day today competitive life.
- PSO2: The Student develops the research skills including the ability to define problems and access, retrieve and evaluate information.
- PSO3: The student is trained to assess the complexity of policy issues and analyze them using economic models.
- PSO4: The student illustrates and critically assesses the important aspects of the ethical conduct expected of an economics professional.
- PSO5: Demonstrates leadership when working in teams by taking initiative, communicating a point of view and translating economic theory and principles into practice (e.g., policy implementation).

Course outcomes

- CO1: Explore the relationship between theory and practice, test theories through using actual data sets.
- CO2: Demonstrate ability to conduct independent and original basic and applied research in Economics.
- CO3: Articulate socio-economic policy recommendations based on sound scientific reasoning.

CO4: Demonstrate the managerial capabilities demanded of academia, government, international organizations, NGO's, or the private sector.

CO5: Have leadership capabilities, assume professional responsibility and independently initiate and implement discipline-specific and interdisciplinary cooperation.

CO6: Be able to work both independently and effectively in a team in complex and unpredictable situations requiring new solutions.

Measuring the attainment of PO, PSO and CO

The curriculum is designed in such a way as to develop and measure the accounting skills of the students. It includes the theoretical part and the practical aspects of finance and accounting. The internal assessment tests give equal due and coverage to both the theory and practice. The students are encouraged to undergo real time projects. Oral tests, quiz program and group discussions are also useful in measuring the attainment of PO, PSO and CO. The student's knowledge and performance in accounting and book-keeping is assessed in the commerce laboratory too.

Level of attainment of PO, PSO and CO

PO: Become professional economists, economic advisors and economic planners.

PSO: Get employment with banking, marketing, insurance, export and import sectors.

CO: Attain the ability to design economic plans, analyze economic policies, observe the policies and functions of IMF, RBI.



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DEPARTMENT OF SOCIAL WORK

Programme Outcomes

- PO1: Make the students to become highly capable and an efficient social work professional.
- PO2: Train and enrich the students with high scientific skills and techniques to deal with social issues and its problems.
- PO3: The concepts, methods and techniques of social work will train the students in following its principles and practice it in various fields.
- PO4: Make the students become well aware about the social work professional code of ethics.
- PO5: Make the students to follow a systematic and scientific knowledge of social work philosophy and methods.
- PO6: Designed to aid individuals, groups and communities for betterment of communities in the society.

Program Specific Outcomes

- PSO1: Make the students to become more knowledgeable and skilful in dealing with human behavior.
- PSO2: Develop the skill of critical thinking, analytical thinking, self-awareness, problem solving ability, constructive use of relationships and productive utilization of self.
- PSO3: Make the students to become an expert professional, responsible, efficient, effective, practical, logical, and pragmatically experiential in dealing with individuals, groups and community for effective implementation of social work philosophies and its values in the society.
- PSO4: Encourage the students to concentrate on solving the individual's psycho-social maladjustment problems.
- PSO5: Stimulate the students to work effectively in motivating the groups to engage in group activity for accomplishing group's desire and needs, and using the resources skillfully for the communities' welfare and development
- PSO6: Research is instilled in the mind of social work students to create new theories, ideologies, values, principles and techniques for the upcoming social work professionals to efficiently deal and address the social problems skillfully.

Course Outcomes

- CO1: The students are able to synchronize the theoretical knowledge of social work profession in their actual practical social settings.
- CO2: The students enhance their social work professional perspective to practically implement in their field work settings.
- CO3: The students are enriched with different school of thoughts and ideologies.
- CO4: The students imbibe great ideas from social reformers and their inspirable social movements.
- CO5: The students enhance their philosophical knowledge of social work which motivates them to enlarge their vision and ideology.
- CO6: The students are able to recognize the need and importance of social work education and training for the welfare of the individual, groups and community.



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DEPARTMENT OF VISUAL COMMUNICATION

Programme Outcomes

Students in their program of study will be able to demonstrate a proficiency in knowledge of essential concepts of visual communication, including:

PO1: Making sustained efforts to create the most effective use of visuals in the media, with the goal of accurately and fairly communication ideas and information to readers and viewers.

PO2: Building upon a solid foundation of visual communication methods and research to expand the quality and effectiveness of their own creative work.

PO3: Understanding and practicing the philosophy that content and not style is the paramount consideration in the gathering, selection and creation of excellent visual communication.

Programme Specific outcomes

Students in their program of study will demonstrate the ability to apply the principles o visual communication, including:

PSO1: Utilizing the basic skills of writing, editing, photography, graphics, design and interactive media with sufficient expertise to comete for employment within the visual communication industry.

PSO2: Creatively using appropriate visual tools to professionally communicate important and interesting information in a timely manner to a well-defined audience.

PSO3: Possessing the skills necessary to adapt to changing technology found in the visual communication field.

PSO4: Students will have experience in researching techniques, designing, photography, creative writing, and project proposal process.

PSO5: Students will understand the foundational principles of design, especially in how to utilize design for visual communication media in a way that supports content.

Course outcomes

CO1: Students will demonstrate a proficiency in the technical aspects of photography, including an understanding of camera controls, menu systems, exposure control, color temperature, white balance, ISO and image capture.

CO2: Students will demonstrate a proficiency in the technical aspects of audio and video capture including an understanding of video stabilization techniques, audio capture strategies, recording equipment and post processing.

CO3: Students will have knowledge of editing content for various forms of visual communication media, in both narrative and essay formats.

CO4: Students will understand the foundational principles of design, especially in how to utilize design for visual communication media in a way that supports content.

CO5: Students will be able to generate conceptual ideas and original content, and be able to articulate and convey those ideas to others.

They will be able to produce images that reflect their concepts/ideas by using an array of tools (i.e., Photoshop, Illustrator, Indesign, 3d max.etc)



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DEPARTMENT OF CRIMINOLOGY AND POLICE ADMINISTRATION

Programme Outcomes

- PO1: Educate the students about the process of criminal justice system of India.
- PO2: Ability to understand the modus operandi of crimes and the variations involved in it.
- PO3: Develop and use criminological imagination, analyzing crime and justice in new ways, going beyond common understandings.
- PO4: Apply appropriate methodologies in order to conduct analysis and detect patterns of crime and victimization.
- PO5: Students will be able to apply research findings to hypothetical or real case study situations.
- PO6: Development of critical thinking and ethical decision making.
- PO7: Apply relevant knowledge and skills to seek solutions to problems that emerge from the subfields of Criminology as well as from broader interdisciplinary subfields relating to criminology.
- PO8: Possess knowledge of values and beliefs of multiple cultures to understand crimes against vulnerable groups.
- PO9: Ability to understand the global perspectives.

Programme Specific outcomes

- PSO1: Capable of demonstrating comprehensive knowledge and understanding major concepts, theoretical principles and experimental findings in criminology and its subfields.
- PSO2: Ability to understand criminal law, Indian Penal Code, Code of Criminal Procedure and Indian Evidence Act.
- PSO3: Ability to develop successful career in research and development, teaching, correctional institutions, security management, private investigation.
- PSO4: Ability to also develop career in disaster management, non-governmental Organizations, victim assistance programs, after-care programs, criminal justice administration.
- PSO5: Students will be able to recognize and explain macro-social inequities in crime and criminal justice processes by race, social class, gender, region and age.

PSO6: Ability to Locate and consult works in the area to produce a research paper that is coherent, cogent, and attentive to conventions of the field.

PSO7: Ability to apply theories of crime and criminal justice to explain actual and hypothetical scenarios, behaviors, and trends

PSO8: Ability to be a skilled communicator as he/she understands and reciprocates the concepts and issues dealt under Criminology through efficient writing and oral skills.

Course outcomes

CO1: Imparted the significance of Human rights, equality, political, equality about sexual abuse, basic human rights and importance of gender.

CO2: Built a strong sense of unity and team work among the students

CO3: Imparted guidance for police training program, fire safety and life saver certificate course. Various skill sets and talents of the students were identified.

CO4: Importance of situational awareness was imparted and diverse career opportunities in the field of corporate security were explored.

CO5: Students were made to observe and visit and do internships at various institutions of Criminal Justice System.

CO6: Students were provided with various physical trainings like drill, parade training, long jump, high jump, etc.

CO7: Students were provided with Rifle shooting training and rope climbing.



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DEPARTMENT OF CHEMISTRY

Programme Outcomes
PO-1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
PO-2. Solve the problem and also think methodically, independently and draw a logical conclusion.
PO-3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
PO-4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community
PO-5. Find out the green route for chemical reaction for sustainable development.
PO-6. To inculcate the scientific temperament in the students and outside the scientific community.
PO-7. Use modern techniques, decent equipments and Chemistry softwares.

Programme Specific Outcomes
PSO-1. Gain the knowledge of Chemistry through theory and practical's.
PSO-2. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions
PSO-3. Identify chemical formulae and solve numerical problems.
PSO-4. Use modern chemical tools, Models, Chem-draw, Charts and Equipments.
PSO-5. Know structure-activity relationship.
PSO-6. Understand good laboratory practices and safety.
PSO-7. Develop research oriented skills.
PSO-8. Make aware and handle the sophisticated instruments/equipments

Course Outcomes	
General Chemistry I	<ol style="list-style-type: none">1. To know the fundamental concepts of atomic structure and basics of quantum mechanics.2. To know the periodicity of properties of elements.3. To understand the various types of chemical bonding and basics of solid state.4. To learn the principles of inorganic qualitative and quantitative analysis. To understand the basic concepts of nanotechnology5. To understand the basic concepts of organic chemistry.

General Chemistry II	<ol style="list-style-type: none"> 1. To equip the learners with concepts of s block elements through comparative study. 2. To equip the learners with concepts of p block elements through comparative study. 3. To understand the aspects of gaseous state. 4. To understand the aspects of liquid state, colloids and carbon nanotubes, fullerenes 5. To understand the chemistry of organic compounds like alkanes, cycloalkanes, alkenes, alkynes and the conformational analysis.
General Chemistry III	<ol style="list-style-type: none"> 1. To understand the general characteristics of Nitrogen and Oxygen families. 2. To know about the chemistry of Halogens and noble gases. 3. To learn the mechanism of Nucleophilic substitution and Elimination reactions. 4. To know about the reaction mechanisms of aromatic and heterocyclic compounds. 5. To understand the basic concepts of Thermodynamics and Thermo chemistry
General Chemistry IV	<ol style="list-style-type: none"> 1. To understand the chemistry of Redox reactions. 2. To understand the General characteristics of d-Block elements 3. To learn about the preparation and properties of Heterocyclic compounds and dyes. 4. To know about the nomenclature, preparation and properties of alcohols, thiols, ethers and thioethers. 5. To understand the limitation of I law of thermodynamics and the need of II law of thermodynamics.
Inorganic Chemistry - I	<ol style="list-style-type: none"> 1. Learning the unique characteristics of lanthanide and actinide series. 2. Learning the fundamentals of coordination chemistry and its applications in analytical chemistry; understanding the biological importance of complexes. 3. Learning the theories of acids and bases.
Organic Chemistry - I	<ol style="list-style-type: none"> 1. Understanding acidic nature of phenol and its properties. 2. Learning the reactions of aldehydes and ketones. 3. Learning the chemistry of carboxylic acids and their derivatives. 4. Learning the chemistry of nitro compounds and amines. 5. Learning the basics of green chemistry.

Physical Chemistry -I	<ol style="list-style-type: none"> 1. Introduced to concepts of thermodynamics such as equilibrium constant and entropy. 2. Learning fundamental concepts about solutions and the basis of separation techniques such as steam distillation and solvent extraction. 3. Introduced to phase rule and its application to one component and two component systems. 4. Introduced to colligative properties and methods of their determination. 5. Introduced to the concept of conductance in electrochemistry.
Inorganic Chemistry - II	<ol style="list-style-type: none"> 1. Learning the theories of metallic bonding. 2. Introduced to organometallic compounds. 3. Introduced to fundamental concepts of nuclear chemistry and radioactivity. 4. Learning the chemistry of clathrates, phosphazenes, silicates.
Organic Chemistry -II	<ol style="list-style-type: none"> 1. Learning the chemistry of biopolymers- carbohydrates and proteins. 2. Understanding vitamins. 3. Learning the chemistry of natural products- alkaloids and terpenoids. 4. Learning the mechanism of various types of molecular rearrangement. 5. Introduced to the concepts of stereochemistry.
Physical Chemistry -II	<ol style="list-style-type: none"> 1. Learning the basics of chemical kinetics. 2. Understanding the basics of catalysis and adsorption. 3. Introduced to the fundamentals of photochemistry. 4. Learning the basics of computational chemistry. 5. Learning the fundamentals of electrochemical cells.
Pharmaceutical Chemistry (Elective-I)	Learning various terminologies used in pharmacology; Types of drugs and their actions.
Polymer Chemistry (Elective-II)	Introduction to types of polymers and their properties, mechanism of polymerization, polymerization techniques; polymer processing; chemistry of industrially important polymers.
Analytical Chemistry (Elective-III)	Learning terminology; Separation Techniques; Principles and instrumentation of Chromatographic, Gravimetric, Thermal, Spectroscopic and electro analytical techniques.



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DEPARTMENT OF PHYSICS

Programme Outcomes

This undergraduate course in Physics would provide the opportunity to the students:

- ❖ To understand the basic laws and explore the fundamental concepts of physics.
- ❖ To understand the concepts and significance of the various physical phenomena.
- ❖ To carry out experiments to understand the laws and concepts of Physics.
- ❖ To apply the theories learnt and the skills acquired to solve real time problems.
- ❖ To acquire a wide range of problem solving skills, both analytical and technical and to apply them.
- ❖ To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- ❖ To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community.
- ❖ To motivate the students to pursue PG courses in reputed institutions.
- ❖ This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements.
- ❖ Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics.

Programme Specific outcomes

The topics covered in the course build a basic foundation of undergraduate physics students to study the advance branches: quantum physics, nuclear physics, particle physics and high energy physics

- ❖ To gain knowledge of vectors, laws of motion, momentum, energy, rotational motion, gravitation, fluids, elasticity and special relativity and also get familiar with various measuring instruments would learn the importance of accuracy of measurements.
- ❖ To learn about one of the fundamental interactions of electricity and magnetism, both as separate phenomena and as a singular electromagnetic force.
- ❖ To understand the basic physics of heat and temperature and their relation with energy, work, radiation and matter. the study of laws of thermodynamics, thermodynamic description of systems, thermodynamic potentials, kinetic theory of gases, theory of radiation and statistical mechanics.

- ❖ Study of superposition of harmonic oscillations, waves motion (general), oscillators, sound, wave optics, interference, diffraction, polarization and experiments related to optical devices: Prism, grating, spectrometers.
- ❖ To understand various types of crystal structures and symmetries and understand the relationship between the real and reciprocal space and learn the Bragg's X-ray diffraction in crystals. Would also learn about phonons and lattice.
- ❖ Various practical problems related to applications of mathematical tools to solve the problems in physics would be learned by students.

Course outcomes

This course provides the student with a general idea about what is science, what is scientific temper, history of science and scientific revolutions.

Familiarity with the different steps involved in the scientific method, explaining what is hypothesis and how they become scientific laws.

On successful completion of the course students would have

- ❖ Learnt the basics of properties of matter, how Young's modulus and rigidity modulus are defined and how they are evaluated for different shapes of practical relevance.
- ❖ Familiarise with Lagrangian and Hamiltonian formulations of classical mechanics.
- ❖ Have gained elaborated knowledge about electrostatics and laws governing the charge distribution.
- ❖ To become familiar with Blackbody radiation, Ultraviolet catastrophe, Photo Electric effect and Compton Effect and hence be aware how quantum theory emerged.
- ❖ To find solution to Schrödinger's equation for many systems such as particle in a box, Hydrogen Atom and familiarize with different quantum numbers.
- ❖ Become familiar with various thermodynamic process and work done in each of these process.
- ❖ Familiarize in depth about statistical distribution and have basic Ideas about Maxwell - Boltzman, Bose-Einstein and Fermi Dirac Statistics and their applications.
- ❖ Gain a clear picture of nuclear composition and various nuclear models. Have a deep knowledge about Radio activity, nuclear Fission and Nuclear Fusion, the relevance of nuclear transformation.
- ❖ Knowledge about Basics electronics Technology and Realize the importance of different electronic communication systems.



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DEPARTMENT OF BANK MANAGEMENT

Programme Outcomes

PO1: Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more Disciplines that form a part of an Undergraduate Programme of Study

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

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

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

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

PO6: Research- related skill: A sense of inquiry and capability for asking relevant / appropriate questions, problem arising, synthesizing and articulating, Ability to recognize cause and effect relationships, define problems, formulate hypothesis, analyse and interpret and draw conclusions from data, establish hypothesis, predict cause and effect relationships, execute and report the results of an experiment or investigation.

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

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

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

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

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

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

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

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

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

Programme Specific Outcomes PSO1 - Placement:

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviours, beliefs and apply diverse frames of reference to decisions and action. Further the students are encouraged with add-on value based and job-oriented courses which ensure them to sustain in the organisation level.

PSO2–Contribution to Business World:

Apply theoretical concepts to business practices to produce employable, ethical, and innovative professionals to sustain in the dynamic business world.

PSO3–ContributiontotheSociety:

To contribute to the development of the society by collaborating with stakeholders for mutual benefit. Become acquainted with commercial knowledge and soft skill to react in the most appropriate way when faced with challenges in the society.

Course Outcomes

CO1:Demonstrate the importance of principles of management.

CO2: Paraphrase the importance of planning and decision making in an organization.

CO3:Comprehend the concept of various authorizes and responsibilities of an organization.

CO4:Enumerate the various methods of Performance appraisal

CO5:Demonstrate the notion of directing, co-coordination and control in the management.



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DEPARTMENT OF COMPUTER SCIENCE WITH DATA SCIENCE

Program Outcomes (PO):

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

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

PO3: Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge de from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.

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

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

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

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

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

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

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

Program Specific Outcomes(PSO):

PSO1 - To enable students to apply basic microeconomic, macroeconomic and monetary concepts and theories in real life and decision making.

PSO2 - To sensitize students to various economic issues related to Development, Growth, International Economics, Sustainable Development and Environment.

PSO3 - To familiarize students to the concepts and theories related to Finance, Investments and Modern Marketing.

PSO4 - Evaluate various social and economic problems in the society and develop answers to the problems as global citizens.

PSO5 - Enhance skills of analytical and critical thinking to analyze effectiveness of economic policies.

Course Outcomes (CO):

CO1: Understand the basic principles and concepts of Computer Science and Data Science with an integrate the knowledge gained in the domain with practical needs of the society and be an ethically and socially responsible Professional.

CO2: Explore latest emerging technologies in diverse areas of Computer Science and inculcate skills for successful career, entrepreneurship and higher studies.

CO3: Apply the concepts of Computer and practices via emerging technologies and Software development tools to solve pragmatic social concerns.



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DEPARTMENT OF COMPUTER SCIENCE WITH
ARTIFICIAL INTELLIGENCE

Programme Objectives

- PO1 Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate Programme of study
- PO2 Communication Skills: Ability to express thoughts and ideas effectively in writing and orally; Communicate with others using appropriate media; confidently share one's views and express herself/himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.
- PO3 Critical thinking: Capability to apply analytic thought to a body of knowledge; analyse and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.
- PO4 Problem solving: Capacity to extrapolate from what one has learned and apply their competencies to solve different kinds of non-familiar problems, rather than replicate curriculum content knowledge; and apply one's learning to real life situations.
- PO5 Analytical reasoning: Ability to evaluate the reliability and relevance of evidence; identify logical flaws and holes in the arguments of others; analyze and synthesize data from a variety of sources; draw valid conclusions and support them with evidence and examples, and addressing opposing viewpoints.
- PO6 Research-related skills: A sense of inquiry and capability for asking relevant/appropriate questions, problem arising, synthesising and articulating; Ability to recognise cause-and effect relationships, define problems, formulate hypotheses, test hypotheses, analyse, interpret and draw conclusions from data, establish hypotheses, predict cause-and-effect relationships; ability to plan, execute and report the results of an experiment or investigation

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- PO9 Reflective thinking: Critical sensibility to lived experiences, with self awareness and reflexivity of both self and society.
- PO10 Information/digital literacy: Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data.

Programme Specific Outcomes

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- PSO4 Evaluate various social and economic problems in the society and develop answer to the problems as global citizens.
- PSO5 Enhance skills of analytical and critical thinking to analyze effectiveness of economic policies.



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