

## **SHIFT-1 (AIDED)**

### **DEPARTMENT OF HISTORY:**

#### **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.

## **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, conserve water and afforestation through these steps they are taking initiative in protecting the environment.

CO6 – The policy of globalization help 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.

## **DEPARTMENT OF TELUGU:**

### **Program Outcomes- PO**

PO1. Apply the knowledge of poetry reading with metre 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.

PO 3: Literary study deals with other fields like Political, Historical, Social, Psychology fields etc. makes the students to think on every aspect of the situation.

PO 4: Linguistics study makes them to know about their origin and present multi Linguirial-social need of globalization.

PO 5: Apply the knowledge of translation theory helps to know worldwide great literary.

PO 6: 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**

PSO 1: Understand the human values with morality.

PSO 2: Gain knowledge about our traditional and moral values and chronological order of literary aspects.

PSO 3: The outcome of studying subject like folk literary to modern literary makes them thorough with the literature of past to present/today aspects.

PSO 4: The knowledge gained in the area of self sufficiency in food production.

PSO 5: 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**

CO 1: 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.

CO 3: 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.

CO 4: 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

CO 5: 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.

CO 6: 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.

## **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.

PO 3: 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.

PO 4: Develop the ability to wield English as a tool to understand and interpret the world.

PO 5: Higher education and employment: Increase and ensure the scope for higher and professional education and employment.

PO 6: 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**

PSO 1: Understand the literature in English and acquire competence in English language.

PSO 2: Understand the communicative aspect of English and develop an insight into literary aspects

PSO 3: Ascertain the literary trends and movements and schools. Perceive the division of literary Ages

PSO 4: Interlink the Social History, Political Economy, Psychology, Sociology and Anthropology with literature. Attain the ability to ascertain how humanities and science influence literary works

PSO 5: Compare literatures of the world. Study of comparative literature and literature in translation

PSO 6: Acquire the necessary linguistic competence and develop the ability to perform well in all 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

CO 4: Use English language in day-to-day situations

CO 5: 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

CO 6: 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.

## **DEPARTMENT OF CORPORATE SECRETARYSHIP:**

### **Program Outcomes**

PO1: Understand the commerce and related fields.

PO2: Update the accounting standards as per norms given by professional bodies.

PO 3: Know the cost mechanism and tax planning system.

PO4: Understand consumer behaviour and channel of distribution, undertaking marketing research are important to students in marketing paper.

PO 5: Understand human values and ethics followed by corporate entities.

PO 6: Apply the knowledge of vouching and verification of various documents used in business firm is explained by auditing.

### **Program Specific Outcome**

PSO 1: Acquire knowledge of commerce and advance concepts related to functional aspects.

PSO 2: Secure Employment opportunities in the core field.

PSO 3: Understand practical knowledge on current issue.

PSO 4: Developing qualities of a successive entrepreneur and ability of decision making.

PSO 5: Import the knowledge of various laws and there provisions that are governing business activities.

PSO 6: Apply the knowledge accounting in preparation of company accounts.

### **Course Outcomes**

CO 1: Become professional accountant.

CO2: Attain the different issues on corporate sector as a company secretary.

CO 3: Attain positive employment opportunity.

CO 4: To know the activities take place in industries are observed through industrial visit.

CO 5: To provide an opportunities and setting up own business units.

CO 6: Attain the ability to audit different accounts.

### **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 and CO**

PO: The students become company secretaries and successful entrepreneur.

PSO: Become familiar in industrial law and banking system.

CO: Develop the capacity to build business strategies necessary to competitive business world.

## **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.

PO 3: Analyze the interlink between Commerce and Accountancy

PO 4: Creativity: Inculcation of creativity in accounting system.

PO 5: Higher education and employment: Widen the opportunities of higher education and increase the employability of the students.

PO 6: Contribution to national economy: Contribute to the development of national economy by inventing useful, profitable and beneficial commercial procedures.

### **Program Specific Outcome**

PSO 1: Develop commercial attitude in the backdrop of social values.

PSO 2: Groom the accounting skills and understand the various accounting systems.

PSO 3: Realize the vitality of commerce and trade.

PSO 4: Perceive the regional, national and international commercial practices.

PSO 5: Become through with Business correspondence and communication.

PSO 6: Acquire the necessary skills to use ICT in order to become familiar with e-commerce and online trading.

### **Course Outcomes**

CO 1: Develop the ability to understand commercial trends.

CO2: Become competent accountants.

CO 3: Attain the ability to audit different accounts

CO 4: Develop the necessary skills to analyze and understand the co-ordination among Statistics, Economics, Commerce and Accountancy.

CO 5: Observe, analyze and interpret Commerce and Accountancy.

CO 6: 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.

## **DEPARTMENT OF MATHEMATICS:**

### **Programme Outcomes**

PO1 – This undergraduate program is given to fulfill the basic understanding of specific subject.

PO2 – To develop primary level teacher.

PO3 – To create traders assist the scientific labs and other allied bodies.

PO4 – To inculcate the curiosity on the specific subjects to the learners.

PO5 – Understand the meaning of a mathematical proof.

PO6 – Formulate, analyze and solve wide variety of problems in Mathematics.

### **Programme Specific outcomes**

PSO1 – Our programme concentrates on subject Mathematics up to graduation level.

PSO2 – Essential topic of the subject have been given to students at introductory level.

PSO3 – Simple problems have been discussed on various topics at the introductory level.

PSO4 – To create interest on physics subject conjectures and long pending problems are discussed like for example: Ramanujan Notes.

PSO5 –Recognize and appreciate the connections between theory and applications.

PSO6 – Be familiar with the variety of examples, where the mathematics help accurately explain abstract phenomena.

## **Course outcomes**

CO1 – To satisfy under graduate students the introductory topics like classical Algebra, Trigonometry, differential Calculus, Number theory and Numerical Analysis are taught.

CO2 – To ensure applications of the above mentioned topics.

CO3 – Integral Calculus, Differential Equation, Principles of Mechanics etc to improve the subjective knowledge of the students at seminar level.

CO4 – Introduction of abstract nature of the specific subject is introduced such as abstract algebra, analysis of both real and complex problems have been introduced.

CO5 – For advance learning elective areas of the specific subjects have been introduced.

CO6 – Demonstrate the ability to apply analytical and theoretical skills to model and solve mathematical problems.

## **Measuring the attainment of PO, PSO and CO**

Suitable credit system is followed. Proper credits are given to course work. By finishing this program the students' are awarded suitable certificates of diploma.

## **Level of attainment of PO, PSO and CO**

There are four level namely S, A, B and C.

## **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.

PO 3: Get information about the history of ancient, medieval and modern Tamil literature.

PO 4: Develop competency in literary forms (Tamil Poetry and Fiction).

PO 5: Nurture themselves in basic literacy skills and develop research aptitude.

PO 6: Be motivated for further education and find jobs for their livelihood.

### **Program Specific Outcome -PSO**

PSO 1: Become familiar with the conventions of diverse textual genres of Tamil literature.

PSO 2: Understand and analyze the linguistic, cultural and historical background of texts written in Tamil.

PSO 3: 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**

CO 1: Obtain more information about the culture and traditions of Tamil society.

CO2: Know more about the history and development of Tamil language and literature.

CO 3: Aim at enriching human excellence; increasing the level of comprehension and exercising communal harmony.

CO 4: 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.

## **SHIFT-2 (SELF FINANCING)**

### **ACCOUNTING AND FINANCE**

#### **Program Outcomes- 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.

PO 3: Analyze the financial position of the organizations.

PO 4: Understand the financial transactions among various organizations and learning the art of book-keeping.

PO 5: Analyze the scope and importance of foreign trade and foreign exchange.

PO 6: Contribution to Accounting and Financial Systems: Contribute to the innovation, development and creativity in tracing and accounting financial transactions.

#### **Program Specific Outcome -PSO**

PSO 1: Perceive the close linkage and correlation of Finance and Accounting with subjects such as Commerce, Economics and Business Administration.

PSO 2: Cope-up with the emerging trends of accounting in modern world.

PSO 3: Develop perceptions of the specialized, fool proof and verifiable methods of Accounting and Finance.

PSO 4: Maintain Accounts independently; identify the strong points and the deficiencies of the accounting system.

PSO 5: Neglect the arithmetical procedures and acquire mathematical knowledge essential for accounting.

PSO 6: Understand the allied fields of taxation and auditing.

#### **Course Outcomes -CO**

CO 1: Deal with the accounting system very efficiently.

CO2: Develop a keen insight into the aspects of financial transactions.

CO 3: Maintain financial records and sheets scientifically and systematically.

CO 4: Develop the ability to meet the changing requirements of accountancy and standardize the procedures of accounting.

CO 5: Acquire the competence to identify and weed out the corrupt methods, tax evasions and anti-accounting values.

CO 6: Record the 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 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 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 export and import sectors.

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

## **BUSINESS ADMINISTRATION**

### **Programme Outcomes**

PO<sub>1</sub>: Acquire the strong knowledge of management practices.

PO<sub>2</sub>: With the use of marketing management theory gives sound knowledge of strategy to sell the product/service globally.

PO<sub>3</sub>: Studying financial services theory help the students understand the various products of banking and its operation.

PO<sub>4</sub>: Apply the knowledge of management accounting for future venture development.

PO<sub>5</sub>: With the use of management papers, students learn human behaviour and value that knowledge to do business ethically in future.

PO<sub>6</sub>: The collaboration subjects of management and accounting practice papers enhance the students' skills and ability on business administration efficiently.

### **Programme Specific outcomes**

PSO<sub>1</sub>: Gain the knowledge of innovative business ideas.

PSO<sub>2</sub>: Understand the successful entrepreneur's histories which encourages our students to be entrepreneurs.

PSO<sub>3</sub>: Sound knowledge on marketing concepts and customer relationship management.

PSO<sub>4</sub>: Academic- institutional training gives good practical exposure to our students on industries.

PSO<sub>5</sub>: Research knowledge enlightens the students in the field of marketing, finance, human resource and production.

PSO<sub>6</sub>: Human resource management and organizational behaviour subjects mould the student's attitude and behaviour in right way.

### **Course outcomes**

CO<sub>1</sub>: The students are able to learn keenly administration of business.

CO<sub>2</sub>: Create theoretical and practical frameworks of business management.

CO<sub>3</sub>: Develop the current trends of Business.

CO<sub>4</sub>: Business regulatory framework teaches the students to do a business ethically and legally in future.

CO<sub>5</sub>: Through the course, our students become job creators than job seekers. So employment opportunities are developed in our country.

CO<sub>6</sub>: 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 behaviour is also one of the indicators of PO, PSO and CO; overall the students' intellectual level and capability are measured academically.

### **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.

## **COMMERCE : B.Com (Gen), M.Com & M.Phil**

### **Programme Outcomes**

**PO1:** Familiarization with commerce: Acquire a thorough knowledge of commerce & industry and apply the knowledge in business & profession.

**PO2:** Creativity: Inculcation of creativity in accounting concepts.

**PO3:** Accounting system: Acquire a fair competency in accounting system.

**PO4:** Higher education and employment: Widen the opportunities of higher education and increase the employability of the students.

**PO5:** Analyze the interlink between commerce and accountancy

**PO6:** Contribution to national economy: Contribute to the development of national economy by inventing useful, profitable and beneficial commercial procedures.

### **Programme Specific outcomes**

**PSO 1:** Realize the vitality of commerce and trade.

**PSO 2:** Understand the allied fields of taxation and auditing.

**PSO 3:** Develop perceptions of the specialized and methods of accounting.

**PSO 4:** Become thorough with business correspondence and office methods.

**PSO 5:** maintain accounts independently; identify the strong points and the deficiencies of the counting system.

**PSO 6:** Groom the accounting skills and understand the various accounting systems.

### **Course outcomes**

**CO1:** Maintain financial accounting records scientifically and systematically.

**CO2:** Develop the ability to understand commercial trends.

**CO3:** Observe, analyze and interpret commerce and accountancy.

**CO4:** Deal with the accounting system very efficiently.

**CO5:** Acquire the competence to identify and weed out the corrupt methods, tax evasions and anti-accounting systems.

**CO6:** Become competent accountants & attain the ability to audit different accounts.

### **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 students are encouraged to undergo real time projects. 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. Oral tests, Quiz program and group discussion are also useful in measuring the attainment of PO, PSO and CO. The internal assessment tests give equal due and coverage to both the theory and practice. 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. The student's knowledge and performance in accounting and book-keeping is assessed in the commerce laboratory too.

## **Level of attainment of PO, PSO, CO**

**PO** : Become professional accountants, administrator and entrepreneurs.

**PSO** : Get employment with Banking, Insurance, Marketing and become expert Accountants and Auditors.

**CO** : Attain the ability to maintain accounts accurately, transparently, honestly, professionally and develop the capacity to construct commercial strategies at various levels.

## **CORPORATE SECRETARYSHIP**

### **Programme Outcomes**

PO<sub>1</sub>: Apply the knowledge of company law and secretarial practice in understanding role of company secretary and responsibility in managing firms' business activities.

PO<sub>2</sub>: Make use of modern electronic devices in communication process and understanding its importance transforming information.

PO<sub>3</sub>: Understand the impact of the operation of security market and transaction carried out by participants in secondary market.

PO<sub>4</sub>: Understand consumer behaviour and channel of distribution, undertaking marketing research are important to students in marketing paper.

PO<sub>5</sub>: Understand human values and ethics followed by corporate entities.

PO<sub>6</sub>: Apply the knowledge of vouching and verification of various documents used in business firm is explained by auditing.

### **Programme Specific outcomes**

PSO<sub>1</sub>: Understand the safety measure to be adopted by the industries and the government role in monitoring whether the methods are strictly followed.

PSO<sub>2</sub>: Gain practical knowledge in Income tax use shows students the live budget of each financial year.

PSO<sub>3</sub>: Study the structure of banking companies and how they provide financial assistance to various sizes of business units and controlling exchange rates.

PSO<sub>4</sub>: Develop qualities of a successive entrepreneur and ability of decision making.

PSO<sub>5</sub>: Import the knowledge of various laws and there provisions that are governing business activities.

PSO<sub>6</sub>: Apply the knowledge accounting in preparation of company accounts.

## **Course outcomes**

CO<sub>1</sub>: Develop the ability to understand dynamic business environment.

CO<sub>2</sub>: Become an entrepreneur.

CO<sub>3</sub>: Able to gain knowledge in company law and secretarial practice.

CO<sub>4</sub>: Know the activities of the industries through industrial visit.

CO<sub>5</sub>: Provide an opportunity and setting up own business units.

CO<sub>6</sub>: Attain the ability to audit different accounts.

## **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 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 and CO**

PO: The students become company secretaries and successful entrepreneurs.

PSO: Become familiar in industrial law and banking system.

CO: Develop the capacity to build business strategies necessary to competitive business world.

## **INFORMATION SYSTEM MANAGEMENT**

### **Programme Outcomes**

PO<sub>1</sub>: Analyze the available trends in new management concepts.

PO<sub>2</sub>: Acquire conceptual knowledge of management, commerce and computer science subjects.

PO<sub>3</sub>: Innovative management practices and its outcome through computer knowledge.

PO<sub>4</sub>: Co-ordinate various software practices and their applicability in administrative scenario.

PO<sub>5</sub>: Rationale understanding of both computers and management paves way for an extensive approach.

PO<sub>6</sub>: Business studies and its computer practices give students a wider scope in job market.

## **Programme Specific outcomes**

PSO<sub>1</sub>: Apply subject knowledge in framing new computer frameworks and languages.

PSO<sub>2</sub>: The knowledge gained by the students through both computer and management subjects gives them awareness into both the fields extensively.

PSO<sub>3</sub>: Self-sufficiency in development of new applications in software ensures individual development in student career.

PSO<sub>4</sub>: Developing the ability to implement various management practices through computer knowledge.

PSO<sub>5</sub>: Internship training for students enables they attain an in-depth knowledge into the organizational structure and its activities.

PSO<sub>6</sub>: Business related studies ensure an analytical view on management through computers.

## **Course outcomes**

CO<sub>1</sub>: The students become able administrators with high level computer knowledge to face the competitive world.

CO<sub>2</sub>: Students are moulded into software professionals who can design and computer techniques.

CO<sub>3</sub>: In-depth knowledge on commerce, management and computer science develops an extraordinary output from the students.

CO<sub>4</sub>: Acquire knowledge of system through ICT devices develops a balance between computer and computations.

CO<sub>5</sub>: They start perceiving the interaction of computers and management concepts.

CO<sub>6</sub>: 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, group discussion and team tasks. In general, on a whole the attainment of these standards are measured by general emphasis on theoretical and practical concepts and their applicability.

## **Level of attainment of PO, PSO and CO**

PO: 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.

## **COMPUTER APPLIACTION**

### **Program Outcomes-PO**

PO<sub>1</sub> - Acquire computer based knowledge and apply it in the field of Computer science.

PO<sub>2</sub> - Understand the functions of computers and its limitations.

PO<sub>3</sub> – To able correlate the hardware and software devices through system software.

PO<sub>4</sub> - To reason the application of systems to various fields.

PO<sub>5</sub> - Widen the opportunities of higher education and increase the employability of the students.

PO<sub>6</sub> - Realize the vitality of Computer and its applications.

### **Program Specific Outcome-PSO**

PSO<sub>1</sub> - To analyze and to interact with various communication devices.

PSO<sub>2</sub> - Can distinguish and develop System software, Application software with various High Level Languages.

PSO<sub>3</sub> - Develop front end and back end way approach for real time applications.

PSO<sub>4</sub> - Problem solving methods for various methodologies can be found out.

PSO<sub>5</sub> - Skill set knowledge acquired can be applied for human computer interaction.

PSO<sub>6</sub> - Acquire the necessary skills to use computer in order to become familiar with E-Learning and Online information management.

### **Course Output-CO**

CO<sub>1</sub> - Analyze, design and develop techniques for program developing.

CO<sub>2</sub> - Distinguish theoretical and practical framework of computer science.

CO<sub>3</sub> -Able to synchronize human computer interaction effectively in various fields.

CO<sub>4</sub> - Analyze the impact of computer in various applications.

CO<sub>5</sub> - Observe, Analyze and interpret computer and Application areas.

CO<sub>6</sub> - Analyze and impact of computer in society and administration.

### **Measuring the attainment of PO, PSO and CO**

The attainment of PO, PSO and CO is measured by continues internal assessment test and university semester examination.

The practical's of PO, PSO and CO is ascertaining by the student group discussion and team task with practical sessions.

## **Level of attainment of PO, PSO and CO**

PO: Become proficient computer user with digitized content based work.

PSO: Competent in creativity in program development and web designing.

CO: Become thorough with the utility value of computer and the techniques of computer applications.

## **BSC COMPUTER SCIENCE**

### **Programme Outcomes**

- Acquire knowledge in the field of Computer Science
- Learn various programming languages
- Understand the concept of client server technology
- Define relational database management system
- Gain knowledge of Networking concepts
- Understand functions of computers and its limitation

### **Programme Specific Outcomes**

- Apply knowledge of mathematics and science in computer science tools
- Able analyze data using statistical method
- Assess the hardware and software aspects of computer systems
- Acquire programming skills and techniques for data processing
- Apply knowledge to solve real time problems
- Utilize various latest software in ICT tools

### **Course Outcomes**

- Understand representation data in computer
- Assess functions of operating system
- Emphasis on event-driven programming methods
- Understand fundamental elements of database management system
- Design and develop techniques in advanced computing
- Develop user friendly software application and also web pages

## **Measuring the attainment of PO, PSO, and CO**

As per University of Madras, the attainment of PO, PSO, CO is measured by end semester examination and Continuous Internal Assessment Tests. The performance of the students in practical's attainment of PO, PSO, and CO is measured by outcome of programming and problem skills, design of algorithms and flowchart.

## Level of attainment of PO, PSO and CO

PO:

- Become proficient computer user and demonstrate computer usages
- Serve as a programmer in IT industry
- Give technical support for the various systems

PSO:

- Design and implement web pages
- Designing and developing an effective professional representations

CO:

- Develop algorithm for real time problems using different techniques
- Solve the problem in information technology
- Accomplish computer tasks in a professional manner

## ELECTRONIC SCIENCE

### Programme Outcomes

#### **P01 – Electronics Knowledge**

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

#### **P02 – 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.

#### **P03 – Electronics and Society**

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

#### **P04 – Modern tool usage**

Apply appropriate techniques, resources and modern attitudes, IT tools to complex Electronic activities and research.

#### **P05 – Investigation of Complex problems**

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

#### **P06 – Life – long learning**

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

### **Programme Specific outcomes**

**PS01:** Understand the basic concepts and applying the knowledge of Electronics and Physics fundamentals.

**PS02:** Analyze the circuit concepts, Basics of Physics and Electronics

**PS03 :** Perform procedures as per the laboratory standards in the areas of Basic Electronics, Digital electronics, Basic Physics, Amplifiers and Oscillators, C Programming, Microprocessor and Microcontroller.

**PS04 :**Understand the Concepts and Applications of Electronics in Medicine, Mobile Communication, Antenna and Television engineering etc.,

**PS05 :**Understand different concepts of Electronic circuits and its working.

**PS06 :**Acquire the strategies of problem solving in Electronic circuits and Electronic communication.

### **Course outcomes**

**C01:** The students are able to solve the problems on electronic circuits and they also design their own new projects which is useful for the society.

**C02:** By learning the recent technological devices students are able to handle them on their own and they also rectify the problems in the devices.

**C03:** By acquiring knowledge of both in Hardware and software students are able to choose their career in their field of interest.

**C04:** Making Electronic projects that are eco friendly and serves helpful to mankind.

**C05:** Identify the area of research about electronics and getting to know more about its concepts.

**C06:** Create theoretical and practical frameworks of Electronics and Communication Science.

### **Measuring the attainment of PO, PSO and CO**

The attainment of PO, PSO and CO is measured by continuous Internal Assessment Tests and Semester and examinations conducted by the University of Madras. It is also measured by the students performance in Electronics circuit design, trouble shooting,

group discussion and team work. Electronics related Project work, Practical sessions, Internship and Industrial visits are useful in ascertaining how the students have developed the capacity to think further and the skills in real like contents.

### **Level of attainment of PO, PSO and CO**

**PO:** Become proficient in handling Electronic tools and trouble shootings.

**PSO:** Become comprehensive of the Electronics concepts, Medical Electronics, Mobile Communication and applications of Electronics.

**CO:** The students are able to design their own new Projects and to solve the problem on Electronics circuits

## **MATHEMATICS**

### **Programme Outcomes**

PO1. Demonstrate basic manipulative skills in algebra, geometry, trigonometry and Differential and Integral calculus.

PO2: Apply the underlying unifying structures of mathematics i.e., sets, relations, functions, groups, fields vector spaces, logical structures and the relationships among them.

PO3: Demonstrate proficiency in writing proofs of theorems.

PO4: Communicate mathematical ideas both orally and in writing

PO5: Know the transformation of functions clearly.

PO6: Understand the meaning of a mathematical proof.

PO7: Formulate, analyze and solve wide variety of problems in Mathematics.

### **Program Specific Outcome -PSO**

PSO1: Demonstrate clearly in the three basic areas of mathematics: Algebra, analysis and geometry on a basic level.

PSO2: Know Abstract Algebra that involves the study of algebraic structures such as groups, Rings, fields, vector spaces and algebra.

PSO3: Know the application of Mathematics in planetary motion.

PSO4: Know the projection of particles, Impact of Bodies [elastic, Inelastic] and hanging stings.

PSO5: Recognize and appreciate the connections between theory and applications.

PSO6: Be familiar with the variety of examples, where the mathematics help accurately explain abstract phenomena.

## **Course Outcomes -CO**

CO1: Apply Mathematical concepts and principles to perform computations.

CO2: Apply mathematics to solve problems.

CO3: Create, use and analyze graphical and diagrammatic representations of mathematical relationships.

CO4: Communicate mathematical knowledge and understanding.

CO5: Apply technology tools to solve problems.

CO6: Demonstrate the ability to apply analytical and theoretical skills to model and solve mathematical problems.

## **Measuring the attainment of PO, PSO and CO**

The attainment of PO, PSO and CO is measured by internal assessment test, question bank preparation by students, regular class test, group discussion on mathematics topics, by giving regular assignments, seminar on applications of mathematical topics by students and weekend activities by Hindu College Maths Association.

## **Level of attainment of PO, PSO and CO**

Become well versed in concepts of basic mathematics and aptitude skills. Get employment through TNPSC exams and many students get PG in various colleges.

## **STATISTICS**

### **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 thorough with the functions of Statistics and understand its limitations.

PO 3: Attain complete and comprehensive co-ordinations of Mathematics and Statistical elements.

PO 4: Creativity: Use statistical concepts and Analytical tools creatively and acquire research based knowledge.

PO 5: Acquire a fair knowledge of latest trends in statistical methods for Social welfare.

### **Program Specific Outcome -PSO**

PSO 1: To Understand the different important and essential concepts of Statistics and Mathematics

PSO 2: Acquire the basic skills and techniques to use the elements of Statistics.

PSO 3: Define Process and project concepts and the role played by statistical tools.

PSO 4: To understand and use the statistical tools of various social and economic welfare projects.

PSO 5: Acquire the basic knowledge of sampling techniques, unbiasedness and adequacy of data.

PSO 6: Acquire the necessary skills to use statistical theories for business, industries and educational needs.

### **Course Outcomes -CO**

CO 1: To understand the basic concepts in Statistics and its applications in various fields.

CO2: To know about basic concepts in probability, probability concepts, Probability Distributions and to use it in real life situations

CO 3: To learn about sampling distributions and to understand the concepts of testing of hypothesis.

CO 4: Enhanced different optimization techniques and know to optimize the problem in business environment.

CO 5: To understand the concepts of statistical Inference and the application of non-parametric tests.

CO 6: To understand different sampling procedures with its mathematical derivations and to able to apply different sampling techniques in different situations.

CO 7: To understand the concepts SQC and DOE and its different types of application in industries.

CO 8: 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.

## TAMIL

### Programme Outcomes

PO1. **Familiarization with literature:** Acquire a thorough knowledge of Tamil literature and language and apply the acquired knowledge to appreciate the elements that go into the making of literature.

PO2: **Linguistic analysis:** Study the origin and development of language; realize the significance of mother tongue in regional and national contexts.

PO3: Analyze the components and composition of literature and develop the basic literary skills.

PO4: **Creativity:** Inculcate literary creativity, develop social values and perceive the social values.

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.

### Programme Specific outcomes

PSO<sub>1</sub>: Realize the role, significance and advantages of learning through mother tongue.

PSO<sub>2</sub>: Perceive the classical status of Tamil language.

PSO<sub>3</sub>: Develop aesthetic sense and attain life skill through reading literature.

PSO<sub>4</sub>: Groom the skills of imagination and understand literary perceptions.

PSO<sub>5</sub>: Understand the nuances of Tamil grammar since Tolkappiyam.

PSO<sub>6</sub>: Acquire the necessary skills to use ICT in order to groom literary and language skills. Optimize the advantages of e-learning.

### Course outcomes

CO<sub>1</sub>: Ensure and establish the native proficiency, competence and performance in Tamil.

CO<sub>2</sub>: Attain the ability to analyze literary texts critically.

CO<sub>3</sub>: Reinvent the Tamil cultural and traditional values.

CO<sub>4</sub>: Observe, analyze and interpret universal life through literature.

CO<sub>5</sub>: Develop the ability to create literature.

CO<sub>6</sub>: Compare Tamil literature and language with the literatures and languages of the world.

The collective course outcomes reflect in the personal and professional development of the students.

## **Measuring the attainment of PO, PSO and CO**

Item test is conducted. An item test is a battery test that includes only one item in a test. For instance, an item test will contain only objective questions so that the students can focus on the objective items. However, besides the written test and oral test, language games are also conducted. The University of Madras includes only choice based objective questions. However, in order to provide variety, the class tests include fill in the blanks and matching exercises.

Similarly item tests of essays are administered here too. Besides the written tests, seminars; group discussion and storytelling are conducted. However, the students' performance in writing becomes the major criterion of measurement.

## **Level of attainment of PO, PSO and CO**

**PO:** The students emerge as complete citizens. They contribute to the society personally and professionally as graduates of Tamil literature.

**PSO:** Realize and attain the native proficiency in Tamil language and literature.

**CO:** Develop the capacity to educate themselves life-long and educate others in literary appreciation and language usage.

## **ENGLISH**

### **Programme Outcomes - PO**

**PO<sub>1</sub>**-Appreciate literature as a source of practical wisdom, aesthetic pleasure and knowledge of the diversity of human experience.

**PO<sub>2</sub>**-Critically and analytically read works of literature produced in many different cultures and historical periods.

**PO<sub>3</sub>**- Express complex literary ideas in clear, accurate and coherent text, both written and spoken.

**PO<sub>4</sub>**- Locate, evaluate and synthesize the available resources for researching a significant scholarly topics.

**PO<sub>5</sub>**-Correctly apply the literary terminology for narrative, poetic and dramatic genres.

**PO<sub>6</sub>** - Contribute in an effective way in the ongoing classroom dynamics and make learning collaborative.

### **Programme Specific outcomes – PSO**

**PSO 1:** Understand the literatures of the world in English and develop proficiency in English language.

**PSO 2:** Understand the communication perspective of the English language and gain an awareness into different literary characteristics.

**PSO 3:** Investigate the literary movements, schools of thoughts, and literary canons and classify them into different ages.

**PSO 4:** Develop an interdisciplinary approach to the study of English literature.

**PSO 5:** Pursue advanced study of literature within and beyond national and linguistic borders.

**PSO 6:** Effectively communicate ideas related to the literature in both personal and professional contexts.

### **Course outcomes – CO**

**CO 1** - Display a working knowledge of the genres of fiction, poetry, and drama by writers from various cultures and historical eras

**CO 2** - Identify and describe distinct characteristics of literary texts

**CO 3**- Analyze literary works for their structure and meaning

**CO 4**- Write analytically about literature using the officially approved templates.

**CO 5**- Effectively communicate ideas related to the literary works during class and group activities

**CO 6**- Appreciate the relationship of literature to other arts, such as film, theater, visual art, and performance based art forms.

### **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.

With a Master’s degree in Economics from D.R.B.C.C.C. Hindu College a student is expected to have a comprehensive knowledge of modern economics as an academic discipline. He/She is also expected to be able to use theoretical and empirical methods to analyze economic problems and to plan and carry out a research project.

## **PG ECONOMICS**

### **Programme Outcomes**

- PO<sub>1</sub>- Understand the main Mathematical models across all fields of Quantitative Economics
- PO<sub>2</sub>- Have in-depth knowledge of relevant national and International economic conditions and its impact on individuals.
- PO<sub>3</sub>- Know how to use an econometric approach to model economic phenomenon, estimates the resulting model, and interprets the estimated parameters
- PO<sub>4</sub>- Demonstrate mastery of the issues, theories and latest advances in at least one of the sub- fields of economics
- PO<sub>5</sub>- Have profound knowledge about the implications of research ethics and professional responsibilities
- PO<sub>6</sub>- Possess insight into and understanding of the societal conditions under which economic and social policies are implemented

### **Programme Specific outcomes**

- PSO<sub>1</sub>- The Student acquires the application and integration of knowledge in applying the economic theories in day today competitive life.
- PSO<sub>2</sub>- The Student develops the research skills including the ability to define problems and access, retrieve and evaluate information.
- PSO<sub>3</sub>- The student is trained to assess the complexity of policy issues and analyze them using economic models.
- PSO<sub>4</sub>- The student illustrates and critically assesses the important aspects of the ethical conduct expected of an economics professional.
- PSO<sub>5</sub>- 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**

- CO<sub>1</sub>- Explore the relationship between theory and practice, test theories through using actual data sets.
- CO<sub>2</sub>- Demonstrate ability to conduct independent and original basic and applied research in Economics.
- CO<sub>3</sub>- Articulate socio-economic policy recommendations based on sound scientific reasoning.

CO<sub>4</sub>- Demonstrate the managerial capabilities demanded of academia, government, international organizations, NGO's, or the private sector.

CO<sub>5</sub>- Have leadership capabilities, assume professional responsibility, and independently initiate and implement discipline-specific and interdisciplinary cooperation.

CO<sub>6</sub>- 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.

## **SOCIAL WORK**

### **Programme Outcomes**

PO<sub>1</sub> - Apply the knowledge of Social Work in understanding its principles and the core concepts, thereby equip the students to frame solutions to social problems such as Alcoholism, Poverty and Ill-health.

PO<sub>2</sub> - Make use of the Social work theories to understand human problems and people's behaviour in the society

PO<sub>3</sub> - With the use of sociological and psychological perspectives – solution to societal problems are addressed

PO<sub>4</sub>–Organizational management study helps the students to understand the overall Human behaviour and functions of the organization.

PO<sub>5</sub> - Apply the knowledge of Social Group work and Social Case work to treat individual with societal problems

PO<sub>6</sub> - Gain social leadership and understand human problems in societal as well as organizational context.

### **Programme Specific outcomes**

PSO<sub>1</sub> – Understand the Social work as a Profession and its Ethics.

PSO<sub>2</sub> – Gain knowledge of Social work values, various social therapies and tools applied to treat mal adjusted individuals of the society

PSO<sub>3</sub> – The outcome of studying the subjects like Counselling, Medical and Psychiatry, Women and Child Development and Community development and Human Resource Management and Human Rights enable students with specialized knowledge in their respective field.

PO<sub>4</sub>–Organizational management study helps the students to understand the overall Human behaviour and functions of the organization.

PO<sub>5</sub> - Apply the knowledge of Social Group work and Social Case work to treat individuals with societal problems

PO<sub>6</sub> - Studying Social work helps the students to gain social leadership and understand human problems in societal as well as organizational context.

### **Course outcomes**

CO<sub>1</sub> – The students are able to understand social condition of India, and rise as Professional Social workers

CO<sub>2</sub> – The knowledge on school social work, communities, organization and Non-Governmental Organization strengthen the students to work for social change

CO<sub>3</sub> – The course enables the students to shape their personality with knowledge of psychological foundation.

CO<sub>4</sub> – The subject like community organization, social group work, counselling, principles of management, group work and case work train the learners to addresses the wide range of social issues.

CO<sub>5</sub> – The students understands the social issues on environmental degradation and significance in establishing *Swatch Bharat* as environmental movement by Central Government of India.

CO<sub>6</sub> – Role of *De-monetization* in curbing the corruptions of the Nation, which lead to rise in India's GDP and stabilization of Macro-economics of India.

## **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 Social worker ,Policy Makers, Community Organizers, Human Rights Workers, Human Resource Managers , Hospital Social workers, School Social workers, Counsellors, Non-Governmental and Government welfare workers, Family Counsellors, Corporate Trainers'.

PSO: Get employment with Non- Governmental Organization,(NGO) Multinational Corporation, Schools, Hospital and UN- Agencies

CO: Attain ability to work as Professional social workers, Professors and policy makers to establish NGO s to address social problems.

## **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:

PO<sub>1</sub>: Making sustained efforts to create the most effective use of visuals in the media.

PO<sub>2</sub>: Building upon a solid foundation of visual communication methods.

PO<sub>3</sub>: Understanding and practising the philosophy that content and not style is the paramount consideration in the gathering, selection and creation of excellent visual communication.

PO<sub>4</sub>: Doing research to expand the quality and effectiveness of their own creative work.

PO<sub>5</sub>: Communicating the ideas and information accurately to the readers and viewers by creating effective visuals.

PO<sub>6</sub>: Analyze the relationship between media, culture and their interdependence.

## Programme Specific outcomes

COURSE NAME	COURSE OBJECTIVES	COURSE OUTCOMES
<p><b>Principles of Criminology</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The evolution of criminology as a separate discipline in social sciences.</li> <li>2. The various schools of criminological thoughts that analyses the root causes of criminal behaviour</li> <li>3. The basic structure of criminal justice system and its symbiotic relation amongst each other</li> <li>4. The various sociological theories that explains the reasons for committing crimes</li> <li>5. The Freudian explanation of human behaviour and conditioning theories of learning</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Understand the discipline Criminology and its evolution from other social sciences.</li> <li>2. Differentiate the criminological school of thoughts ,each explaining criminal behaviour validated by their research</li> <li>3. Know the four pillars of criminal justice system and its influence on each other</li> <li>4. To discern the impact of society on crime</li> <li>5. Identify personalities and diagnose those that are prone to criminal behaviour</li> </ol>
<p><b>Criminal Law</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The evolution of Indian criminal law mainly the constitution, Indian penal code and Criminal procedure code.</li> <li>2. The salient features of Constitutional law in India with emphasis on preamble, Fundamental duties and rights, Directive principles.</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Know the history of the Indian Criminal Law</li> <li>2. Explain the entire constitution and its impact on the administration of the country.</li> <li>3. Have a basic understanding of the</li> </ol>

	<ol style="list-style-type: none"> <li>3. The selected important sections of Indian penal code which includes crimes against property, persons and public tranquillity.</li> <li>4. The entire procedure of criminal justice system which includes investigation, arrest, charge sheet and trial.</li> <li>5. The importance, relevance and admissibility of evidence, confession and dying declaration at trial.</li> </ol>	<p>application of Indian penal code for appropriate offences.</p> <ol style="list-style-type: none"> <li>4. Demonstrate knowledge of criminal procedures, prosecution, defence, court procedures, and decision-making.</li> <li>5. Exhibit facts related to the evidence, confession, and burden of proof and dying declaration for the purpose of impartial adjudication.</li> </ol>
<p><b>Document examination</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The importance of questioned documents in examination of evidence</li> <li>2. The examination of documents, writing materials, ink, signatures and papers</li> <li>3. The detection of physical erasure, pencil erasure and chemical erasure and the chemical methods of restoring erased or faded writings</li> <li>4. The examination of postal stamps, rubber stamps, disguise writing, anonymous letters, typescript, printed materials and forged currency</li> <li>5. The legal aspects of evidence on documents and the different instruments for forensic document examination</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Have a fundamental understanding of the forensic documents and the role of a document examiner.</li> <li>2. Detect various factors like age, manufacture etc that validate fraudulent documents</li> <li>3. Know different types of erasures used by forgers to duplicate or alter documents.</li> <li>4. Understand the fraudulent aspects in writings, stamps, typescript and printed materials and in currencies.</li> </ol>

		<p>5. Have a legal knowledge on evidence and testimony experts for trial as well as the instruments used for forensic examination.</p>
<p><b>Vigilance &amp; security management</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The evolution, role of vigilance and machineries of vigilance like CVC, SVC that helps to curb corruption and understand the role of CISF in industrial security.</li> <li>2. The dynamics of security aspects like man, material and information and computer security</li> <li>3. The different types of security management –access control, security alarms, fire alarms, dog squads, security guards</li> <li>4. The Private security legislation and its role for private security agencies</li> <li>5. The best practices for security and safety in different organizations and the basic code of ethics to be followed in security.</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Comprehend the role of different functionaries of vigilance to tackle corruption</li> <li>2. Understand the security of information especially in the cyberspace.</li> <li>3. Know the different security systems adopted for safety like access control, different alarms, dog squad and security guards.</li> <li>4. Explain the legal aspects of the private security.</li> <li>5. Study the safety and security practices adopted by different types of different organizations.</li> </ol>
<p><b>Principles of Psychology</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The scope of general psychology and its relevance in understanding crime and delinquency</li> <li>2. Personality theories that justifies profiling of criminals. Learning theorists and motivation theorists</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Understand the scope of criminal psychology in investigation, adjudication and in correction.</li> <li>2. Apply various</li> </ol>

	<p>gives an insight into the learning of different techniques for committing crime and motivation for illegal acts</p> <ol style="list-style-type: none"> <li>3. Deeper knowledge on the learning process of criminality</li> <li>4. The motivational conflicts and how frustration leads to criminal behaviour</li> <li>5. Different types of psychological disorders and the concept of abnormality.</li> </ol>	<p>personality, learning and motivation theories to understand the complexities of criminal attitude</p> <ol style="list-style-type: none"> <li>3. Explain the learning process of criminality</li> <li>4. Know the role of conflicts and frustration in accelerating the criminality.</li> <li>5. Detect the abnormality in criminals and give proper rehabilitation or to prevent an abnormal person from committing crimes through prior diagnosis</li> </ol>
<p><b>Special laws</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The evolution of special legislations</li> <li>2. The legislations for scheduled castes and tribes</li> <li>3. The legislations for delinquents, trafficking, probation of offenders and to familiarize with the economic legislations</li> <li>4. The legislations for corruption and food adulteration</li> <li>5. The legislations for dowry prohibition, drug control and anti-terrorism</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Learn the importance of special legislations in our culture driven country</li> <li>2. Understand the crimes against SCs and STs and its legal remedy</li> <li>3. Familiarize with juvenile delinquency, trafficking, probation and economic legislations</li> <li>4. Have legal knowledge on dowry prohibition, drug control and anti-terrorism</li> </ol>

<p><b>Human rights &amp; criminal justice administration</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The development of Human rights and the different types of rights</li> <li>2. National and International instruments for protecting human rights across the globe</li> <li>3. The role of human rights in criminal justice functionalities</li> <li>4. Human rights violations of Women, Children, Minorities, Refugees, SC/STs, Elderly people</li> <li>5. Human rights agencies in India and in UN- its role, structure and functioning</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Understand the concept of human rights and its relevance in the current generation</li> <li>2. Know the protectors of Human rights across the world</li> <li>3. Explain the rights of any person when under detention by any criminal justice agency.</li> <li>4. Learn the violations of Women, Children, Minorities, Refugees, SC/STs, Elderly people</li> <li>5. Have a basic understanding of human rights agencies across the world</li> </ol>
<p><b>Social problems</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The nature of the society and the several traditional, formal, informal means of social controls</li> <li>2. The elements of different social institutions like religion, family, marriage and kinship</li> <li>3. The stratification of society on basis of caste across all the cultures in India</li> <li>4. The nature of social problems that exists and affects our society</li> <li>5. The legal efforts taken to improve the status of lower sections of the society.</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Understand the concept of social controls and its impact on the society</li> <li>2. Deeper understanding of different important social institutions and its role in the quality of life.</li> <li>3. Explain the concept of caste and its relevance and impact on the society</li> <li>4. Have a basic understanding of the social problems of our country</li> </ol>

		<p>5. Learn the legal knowledge on the SC., S.T., OBC, Denotified communities Minority Groups Reservation Policy for the Development of Society and Economically Disabled groups.</p>
<b>Fundamentals of Statistics</b>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The importance of statistics and understand the crime statistics and its sources</li> <li>2. The measures of central tendencies</li> <li>3. The correlation and its various types, regression analysis</li> <li>4. The concept of inferential statistics</li> <li>5. The application of SPSS in criminological research</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Learn the relevance of statistics and understand the current crime trends</li> <li>2. Have a basic knowledge of means of central tendencies</li> <li>3. Understand the concept of correlation and regression</li> <li>4. Explain crime trends using inferential statistics</li> <li>5. Expertise in the usage of SPSS for research in criminology.</li> </ol>

<p><b>Prison administration</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The historical nature of punishment and the recent trends in punishment</li> <li>2. The various types of correctional methods</li> <li>3. Origin and development of Indian Prison System and Scientific classification of prisons and prisoners</li> <li>4. The non –institutional methods of correction like parole, probation and halfway houses</li> <li>5. Role of voluntary agencies in prevention of crime and treatment of offenders. After care and rehabilitation of prisoners</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Understand the genesis of punishment and its evolution over the period of time</li> <li>2. Learn the objectives of correctional methods and its theoretical framework</li> <li>3. Have a basic knowledge about prison administration</li> <li>4. Know the available non-institutional methods available to the offenders</li> <li>5. Familiarize with the recent trends in corrections like afterca</li> </ol>
<p><b>Cyber crimes</b></p>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. The basics of computer and internet</li> <li>2. History and evolution, Types and forms of cyber crimes</li> <li>3. Best Practices for Cyber Crime Investigation. Basic Forensic Principles, Forensic Imaging &amp; Verification, Data Recovery and Analysis</li> <li>4. Cyber Policing - Current statutes in India: Penalties &amp; Offences under the Information Technology Act, 2002.</li> <li>5. Overview of Intellectual Property related Legislation in India, Copyright law &amp; Cyberspace</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Have a basic understanding of the functioning of computer and the operation of Internet services</li> <li>2. Learn the different types of crimes committed in the cyberspace.</li> <li>3. Explain the investigation of cybercrimes and Recovery of Digital Evidence</li> <li>4. Comprehend the issues relating to investigation and adjudication of cyber crimes in India</li> </ol>

	Trademark law & Cyberspace.	and Digital evidence 5. Familiarize the Intellectual Property Services in cyberspace.
<b>Guidance and counselling</b>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. Need and Importance of counselling and professional ethics in counselling.</li> <li>2. Basic Principles of Counselling</li> <li>3. Types of Counselling, The important elements in Counselling process and understanding of emotions in counselling.</li> <li>4. Different Techniques of Counselling and the barriers to effective counselling sessions</li> <li>5. Specialized counselling for women, children. Effectiveness of counselling and guidance in the treatment of offenders and victims.</li> </ol>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. Study the concept of counselling and its importance.</li> <li>2. Learn the Basic Principles of Counselling.</li> <li>3. Know the different types of counselling and the qualities of a counsellor.</li> <li>4. Familiarize the Different Techniques of Counselling and the barriers to effective counselling sessions</li> <li>5. Have Expertise on specialized counselling to offenders and victims</li> </ol>
<b>Police administration</b>	<p><b>Students will try to learn:</b></p> <ol style="list-style-type: none"> <li>1. Policing in Ancient, Medieval and Modern India</li> <li>2. Structure of various police functionaries in the country</li> <li>3. Recruitment and Training of police functionaries</li> <li>4. Protocols followed in the police investigation</li> <li>5. Contemporary policing-developing healthy police public relationship, zero tolerance</li> </ol>	<p><b>Students will be able to:</b></p> <ol style="list-style-type: none"> <li>1. Learn the historical perspectives of policing and the salient features of police act</li> <li>2. Have a basic knowledge on Structure of various police functionaries in the country</li> <li>3. Understand Recruitment and Training of police functionaries</li> <li>4. Police Investigation</li> </ol>

	policing	Procedures 5. Familiarize with the Contemporary Policing
--	----------	--

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

PSO<sub>1</sub>:Utilizing the basic skills of writing, editing, photography, graphics, design and interactive media with sufficient expertise to compete for employment within the visual communication industry.

PSO<sub>2</sub>:Creatively using appropriate visual tools to professionally communicate important and interesting information in a timely manner to a well-defined audience.

PSO<sub>3</sub>:Possessing the skills necessary to adapt to changing technology found in the visual communication field.

PSO<sub>4</sub>:Students will have experience in researching techniques, designing, photography, creative writing, and project proposal process.

PSO<sub>5</sub>:Students will understand the rudimentary principles of design, especially in how to utilize design for visual communication media in a way that supports content.

PSO<sub>6</sub>: Understand the Elements of Photography and its functions.

### **Course outcomes**

CO<sub>1</sub>: 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,

CO<sub>2</sub>: Students will demonstrate 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.

CO<sub>3</sub>:Students will have knowledge of editing content for various forms of visual communication media, in both narrative and essay formats.

CO<sub>4</sub>:Students will understand the foundation principles of design, especially in how to utilize design for visual communication media in a way that supports content.

CO<sub>5</sub>:Students will be able to generate conceptual ideas and original content, and be able to articulate and convey those ideas to others.

CO<sub>6</sub>: 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)

## CRIMINOLOGY AND POLICE ADMINISTRATION:

Police station management	Students will try to learn:	Students will be able to:
	<ol style="list-style-type: none"> <li>1. Police Station Routine- Weekly routine duties of police men in cities and villages. Beats and Patrolling, Surveillance duties</li> <li>2. Police Station Records – administration like General Diary, Sentry Relief Book, Duty Roster etc</li> <li>3. Records – related to the offender like Crime register, Prisoner’s search register, Registers relating to maintenance of law and order, Petty case register</li> <li>4. Important functions of a police station- Police Writer’s Duties, executing warrants and summons,</li> <li>5. Traffic regulation duties- Duties on main traffic junctions and patrolling</li> </ol>	<ol style="list-style-type: none"> <li>1. Understand the basic Police Station Routine and their role in Prevention of Crime, Protection of law and order</li> <li>2. Familiarize the different Police Station Records for administration.</li> <li>3. Learn the various records maintained for the classification of offenders</li> <li>4. Know the important functions of a police station in Crime Investigation, Interrogation and prevention of crime</li> <li>5. Gain knowledge of Traffic regulation duties</li> </ol>

### Programme specific objectives and programme specific outcomes

Sl no	Programme specific objectives	Programme specific outcomes
1.	To comprehend and be able to conceptualize, analyze, and conceive the changing nature of crime in the current societal environment	Have an in-depth knowledge on the various trends in types of crime both the traditional and the emerging ones

2.	Critically analyse the elements of the classical and modern theories of criminology.	Understand and apply competing criminological theories to explain the social structure of crime and deviance.
3.	Obtain an understanding on the administration of police, judiciary and the correctional system in India	Students will demonstrate academic proficiency in the core criminal justice areas in our country
4.	Demonstrate knowledge of criminal law, criminal procedures, prosecution, defence, court procedures, and decision-making	Understand the functioning of the adjudication process
5.	Have an insight into the basic human rights and its impact on the criminal justice system	Students will identify issues of diversity and human rights in relation to the workings of the criminal justice system and criminology.
6.	To understand the different types of victims, learn victimological theories	Demonstrate knowledge of theories of victimology and able to propose improvements to the treatment of victims
7.	Have a basic understanding of the crimes committed in the cyberspace	Exhibit understanding on the cybercrimes and its prevention
8.	Have practical visits to all the criminal justice agencies in the state to understand their working	Hands on practical exposure to the criminal justice functionaries
9.	Develop research skills in comprehending the reality of the crime scenario in the country	Demonstrate knowledge of quantitative and qualitative methods for conducting and analyzing ethical criminal justice research.
10.	Prepare students for careers in government and private security organizations across the globe	Be skilled in different levels of administration and in security arenas

### **Measuring the attainment of PSO,PO AND CO**

The attainment levels of PSO, PO and Cos can be measured based on the results of the internal assessment and external examination conducted by the university. This is a form of direct measurement of attainment. Three internal assessment tests are conducted for each

course in a semester. The internal assessments are inclusive of written tests, quiz, poster presentation, role play, submission of assignments, seminar presentations. In each test, the percentage of students who achieve a set target (usually, 60% of the maximum marks, i.e., 15 of 25) for the COs that are covered is computed. After the three tests, the average of these percentages is computed to decide the attainment level. Program outcomes and 'program specific outcomes' are attained through the attainment of COs. This is called direct attainment of POs and PSOs.

## CHEMISTRY:

<b>Programme Outcomes</b>
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 software Os

<b>Programme Specific Outcomes</b>
PSO- 1. Gain the knowledge of Chemistry through theory and practical O 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-G. Understand good laboratory practices and safety.
PSO-7. Develop research oriented skills.
PSO-8. Make aware and handle the sophisticated instruments/equipments

<b>Course Outcomes</b>	
General Chemistry I (BCY-DSC0 I)	<ol style="list-style-type: none"> <li>1. To know the fundamental concepts of atomic structure and basics of quantum mechanics.</li> <li>2. To know the periodicity of properties of elements.</li> <li>3. To understand the various types of chemical bonding and basics of solid state.</li> <li>4. To learn the principles of inorganic qualitative and quantitative analysis. To understand the basic concepts of nanotechnology</li> <li>5. To understand the basic concepts of organic chemistry.</li> </ol>
General Chemistry II (BCY-DSC02)	<ol style="list-style-type: none"> <li>1. To equip the learners with concepts of block elements through comparative study.</li> <li>2. To equip the learners with concepts of block elements through comparative study.</li> <li>3. To understand the aspects of gaseous state.</li> <li>4. To understand the aspects of liquid state, Colloids and carbon nano tubes, fullerenes.</li> <li>5. To understand the chemistry of Organic compounds like alkanes, cycloalkanes, alkenes, alkynes and the conformational analysis.</li> </ol>
General Chemistry III (BCY-DSC04)	<ol style="list-style-type: none"> <li>1. To understand the general characteristics of Oxygen and Nitrogen families.</li> <li>2. To know about the chemistry of Halogens and noble gases.</li> <li>3. To learn the mechanism of Nucleophilic substitution and Elimination reactions.</li> <li>4. To know about the reaction mechanisms of aromatic and heterocyclic compounds.</li> <li>5. To understand the basic concepts of Thermodynamics and Thermochemistry.</li> </ol>
General Chemistry IV (BCY-DSC04)	<ol style="list-style-type: none"> <li>1. To understand the chemistry of Redox reactions.</li> <li>2. To understand the General characteristics of d-Block elements</li> <li>3. To learn about the preparation and properties of Heterocyclic compounds and dyes.</li> <li>4. To know about the nomenclature, preparation and properties of alcohols, thiols, ethers and thioethers.</li> </ol>

	To understand the limitation of I law of thermodynamics and the need of II law of thermodynamics.
--	---

## HINDI:

### Programme Outcomes

- PO1 : Introduction to Rose Literature (I<sup>st</sup> Year)
- PO2 : Familiarization with the Hindi Prose (I<sup>st</sup> Year)
- PO3 : Introduction to Function Hindi (I<sup>st</sup> Year)
- PO4 : Acquire a though knowledge of Functional Hindi (I<sup>st</sup> Year)
- PO5 : Introduction to letter writing, Noting & Drafting (I<sup>st</sup> Year)
- PO6 : Acquire a though writing, Noting & Drafting (I<sup>st</sup> 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 and E-Publishing.

### Course outcomes

- CO1 : Develop the ability to understand literary trends.
- CO2 : Become efficient/competent creator.
- CO3 : Attain the ability to write, review criticize, analyze, debate, publish etc.,
- CO4 : Develop the basic/necessary skills to analyze and understand the inter-link, inter-dependency, influence among other subjects and areas.
- CO5 : Observe, analyze, evaluate, interpret, re-say & re-create
- CO6 : Analyze the impact of literature in society, politics & administration.

### Measuring the appointment of PO, 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 artists, journalists, Hindi officials, teachers, tutors, professors, DJs even managers, editors, publishers, reviewer critics, announcers, news readers other professionals and confident entrepreneurs.

PSO : Become great/expert scholars

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

## **PHYSICS**

### **Programme Outcomes**

Specific statements of what students should be able to do as a result of the Departments curricular and co-curricular experiences have been developed for Physics majors and other majors taking one (or) more courses in the Physics Department.

Our most important outcome for all our students is that they enthusiastically engage in learning what is known about our world and develop a passion for participating in pushing the bounds of our knowledge even further.

### **Programme Specific outcomes**

Critically assess their current state of knowledge and expertise, and develop, implement and refine a plan to acquire new knowledge for specific scientific goals and pursuit of new intellectual interests. Communicate effectively via oral, visual and written formats to diverse STEM audiences. Use the appropriate tools and requisite media literacy to acquire, assess and analyze data and information from diverse sources.

### **Course outcomes**

Recognizing universal physical laws relevant to the problems and applying the relevant laws to the problems, mathematical and computational techniques, using experimental and theoretical methods, and evaluating the limitations of their solutions. These skills balance, complement, and strengthen student core science and mathematical skills.