

A.P.C MAHALAXMI COLLEGE FOR WOMEN, THOOTHUKUDI-2

COURSE OUTCOMES/LEARNING OUTCOMES

I B.Sc. Chemistry/ Semester I

Inorganic Chemistry – I Sub.Code: SMCH11

At the end of the course the students will be able to

CO1: Distinguish the atomic structure from wave mechanical concept.

CO2: Find the arrangement of elements in the periodic table and the periodic properties.

CO3: Understand the different kinds of chemical forces in molecules.

CO4: Recall the nature of compounds formed by s- and p-block elements.

I B.Sc. Chemistry/ Semester I

Physical Chemistry Sub.Code: SMCH12

At the end of the course the students will be able to

CO1: Interpret the behavior of molecules in gaseous state.

CO2: Define the photochemistry.

CO3: Understand the various phenomenon of solid state.

CO4: Understand the basic concepts of Nuclear Chemistry.

CO5: Classify the properties of dilute solutions.

I B.Sc. Chemistry/ Semester I

Inorganic Quantitative Analysis -I Sub.Code: SMCHP1

At the end of the course the students will be able to

CO1: Understand the students to acquire the quantitative skills in volumetric analysis.

CO2: Explain experimental projects and execute them.

I B.Sc. Chemistry/ Semester I

Inorganic Quantitative Analysis

Sub.Code: SMCHP2

At the end of the course the students will be able to

CO1: Understand the students to acquire the quantitative skills in volumetric analysis.

I B.Sc Chemistry /Semester II

Inorganic Chemistry- II

Sub.Code: SMCH21

At the end of the course the students will be able to

CO1: Find out the basic principles of metallurgy and the chemistry of d- Block elements.

CO2: Recall the chemistry of f- Block elements.

CO3. Understand the basic concepts of coordination chemistry and early theory.

CO4: Define the basic analytical methods.

CO5: Illustrate the chemistry of noble gases.

I B.Sc. Chemistry/ Semester I

Organic Chemistry

Sub.Code: SMCH22

At the end of the course the students will be able to

CO1: Illustrate the classification and nomenclature of organic compounds.

CO2: Explain the hydrocarbons, halogen derivatives, alcohols and ethers.

I B.Sc. Chemistry/ Semester I

Skill Based – Agro Chemistry

Sub.Code: JSCH3A

At the end of the course the students will be able to

CO1: Make use of the fertilizers, pesticides, and components of soil.

CO2: Match the applications of fertilizers and pesticides.

CO3: Tell about testing of soil.

I B.Sc. Chemistry/ Semester I

Allied Chemistry - I Sub.Code: JACH11

At the end of the course the students will be able to

CO1: Understand the atomic structure and bonding.

CO2: Find out the principles of reactions of organic compounds.

CO3: Summarize photochemical reactions.

CO4: Tell about the importance of polymers and polymer science.

CO5: Relate the lubricants and some cosmetics in the modern world.

II B.Sc., Chemistry- Semester III

Organic Chemistry Sub.Code: JMCH31

At the end of the course the students will be able to

CO1: Explain aldehydes and ketones

CO2: Interpret organometallic and organo sulphur compounds.

CO3: Recall active methylene compounds and tautomerism.

II B.Sc., Chemistry- Semester IV

Physical Chemistry Sub.Code: JMCH41

At the end of the course the students will be able to

CO1: Understand the concepts of Thermodynamics.

CO2: Tell about Chemical Equilibrium.

CO3: Know the basic concepts of Electrochemistry and electrochemical cells.

II B.Sc., Chemistry- Semester IV

Inorganic Quantitative Analysis Sub.Code: JMCHP2

At the end of the course the students will be able to

CO1: Understand various procedures in salt analysis.

CO2: Find out the awareness on ecofriendly approach in salt analysis.

II B.Sc., Chemistry- Semester IV

Allied Chemistry - II Sub.Code: JACH21

At the end of the course the students will be able to

CO1: Understand the chemistry of basic aromatic compounds.

CO2: Find out the nuclear particles and few nuclear reactions.

CO3: Know about carbohydrates, amino acids, proteins and nucleic acid.

CO4: Illustrate fuels, fertilizers, cement and glass.

CO5: Know about some common diseases and the drugs used.

Allied Practical - IV Quantitative Analysis Sub.Code: JACHP1

At the end of the course the students will be able to

CO1: Understand the quantitative skills in volumetric analysis.

II B.Sc., Chemistry- Semester IV- Skilled Based –II (A)

Chemistry in Medicine Sub.Code: JSCH4A

At the end of the course the students will be able to

CO1: Get knowledge of first aid and the important rules.

CO2: Identify the common chemicals in medicine.

CO3: Get awareness of common diseases.

CO4: Learn the diagnostic tests and to know the importance of vitamins.

III B.Sc., Chemistry- Semester V- Physical Chemistry Sub.Code: GMCH52

At the end of the course the students will be able to

CO1: Understand the kinetics of reactions.

CO2: Understand the concepts of thermodynamics.

CO3: Define the principles of electrochemistry and the types of electrochemical cells.

CO4: Relate the terms in phase rule and its application to various systems.

III B.Sc., Chemistry- Semester V- Organic Chemistry Sub.Code: GMCH51

At the end of the course the students will be able to

CO1: Explain optical, geometrical and conformational isomerism.

CO2: Relate aromaticity and aromatic substitution.

CO3: Understand about heterocyclic compounds.

III B.Sc., Chemistry- Semester V -Polymer Chemistry Sub.Code: GMCH5A

At the end of the course the students will be able to

CO1: Understand the concept of polymerization and types of polymers.

CO2: Recall the characteristics of polymers.

CO3: Acquire knowledge about the polymerization techniques and polymer processing.

CO4: Know the chemistry of individual polymers.

CO5: Have an idea about the recent advances in polymer sciences.

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III B.Sc., Chemistry- Semester V -Analytical Chemistry Sub.Code: GMCH5C

At the end of the course the students will be able to

CO1: Understand the importance of analytical chemistry and to study about the different types of analytical techniques.

III B.Sc., Chemistry- Semester VI -Inorganic Chemistry – III Sub.Code: GMCH61

At the end of the course the students will be able to

CO1: Recall the theories in coordination chemistry.

CO2: Define the chemistry of metal carbonyls.

CO3: Understand the role of metal ions in biological systems.

CO4: Interpret the basic principles of photoinorganic chemistry.

III B.Sc., Chemistry- Semester VI- Organic Chemistry **Sub.Code: GMCH62**

At the end of the course the students will be able to

CO1: Identify the structure and functions of aldehydes and keto hexoses.

CO2: Define the chemistry of carbonyl, hydroxyl and terpenoids.

CO3: Understand the basic aspects of alkaloids and terpenoids.

CO4: Understand basic of organic spectroscopy.

III B.Sc., Chemistry- Semester VI- Physical Chemistry **Sub.Code: GMCH63**

At the end of the course the students will be able to

CO1: Interpret the principles in Photochemistry.

CO2: Understand the principles of group theory as applied to simple molecules.

CO3: Know the importance of Nanochemistry.

III B.Sc., Chemistry (V&VI Semesters)

Gravimetric Estimation & Inorganic Preparations **Sub.Code: GMCHP3**

At the end of the course the students will be able to

CO1: Understand the various techniques in gravimetric estimations.

CO2: Illustrate inorganic complex preparations.

III B.Sc., Chemistry (V&VI Semesters)

Organic Analysis & Organic Preparation **Sub.Code: GMCHP4**

At the end of the course the students will be able to

CO1: Understand the various procedures in organic analysis and organic preparation.

CO2: Create an awareness on microscale experiments in organic chemistry practicals.

III B.Sc., Chemistry (V & VI Semesters)

Physical Chemistry Experiments

Sub.Code: GMCHP5

At the end of the course the students will be able to

CO1: Understand the principles of physical chemistry experiments.

M.Sc Chemistry Organic Chemistry – I/Semester - I Sub.Code: PCHM 11

At the end of the course the students will be able to

CO1: Understand the concept of Aromaticity, Novel ring systems, Reaction Mechanism, stereochemistry and important reagents for synthetic uses.

Inorganic Chemistry – I / Semester - I

Sub.Code: PCHM12

At the end of the course the students will be able to

CO1: Understand different type of bonds and to study different theories of bonding.

CO2: Understand the acid-base concept, reactions in non-aqueous medium and to study applications of redox potential in inorganic systems.

CO3: Define the crystal structures, defects in solid crystals, band theory of solids and superconductors.

CO4: Recall nuclear chemistry and to study the applications of radio isotopes.

CO5: Demonstrate the extraction of lanthanides and actinides from ores and to understand their properties.

Physical Chemistry – I / Semester - I

Sub.Code: PCHM13

At the end of the course the students will be able to

CO1: Define Partial molar properties and Phase rule.

CO2: Understand the Principles of Thermodynamics of irreversible processes, Quantum mechanics and Statistical Thermodynamics

Physical Chemistry Practical-I (Semester - I)

Sub.Code: PCHL13 At

the end of the course the students will be able to

CO1: Explain the Principles of Conductometric Titrations.

CO2: Recall the Principles of Heat of solution.

CO3: Understand the Kinetics of second order reactions

Advanced Topics in Chemistry – I (Semester - I)

Sub.Code: PCHE11

At the end of the course the students will be able to

CO1: Understand the concept of green and nano chemistry, applied electro-chemistry analytical technique and industrial chemistry.

Organic Chemistry – II Semester-II

Sub.Code: PCHM21

At the end of the course the students will be able to

CO1: Understand the concept of by UV, FT-IR, ORD and CD spectral studies, Aromatic Nucleophilic substitution reaction, Intermediate, Natural Products.

Inorganic Chemistry – II (Semester – II)

Sub.Code: PCHM22

At the end of the course the students will be able to

CO1: Explain the nature of metal-ligand bond and to study various theories of bonding in coordination compounds.

CO2: Recall the stability, chemical reactions and magnetic properties of coordination compounds.

CO3: Illustrate the applications of electronic and infra-red spectroscopic techniques in coordination compounds.

CO4: Understand inorganic polymers and to study structures and bonding in metal clusters.

Physical Chemistry-II (Semester – II)

Sub.Code: PCHM23At

At the end of the course the students will be able to

CO1: Get the Knowledge about Quantum mechanics and Statistical Thermodynamics.

CO2: Learn and understand the Principles of Electrochemistry.

CO3: Explain Photochemistry and Radiation chemistry.

Physical Chemistry Practical-II (Semester - II)

Sub.Code: PCHL23

At the end of the course the students will be able to

CO1: Apply the Principles of Conductometric Titrations.

CO2: Understand and verify the Principles of Heat of solution.

CO3: Understand the Partition and distribution of a solute between two immiscible solvents.

Advanced Topics in Chemistry – II (Semester – II) Sub.Code: PCHE21

At the end of the course the students will be able to

CO1: Understand the concept of forensic and computer applications, nano materials, industrial polymer, medicinal chemistry and bio-organic chemistry.

Organic Chemistry – III (Semester-III)

Sub.Code: KCHM31

At the end of the course the students will be able to

CO1: Understand the Aliphatic Nucleophilic substitutions, concept of NMR, Mass Spectroscopy.

CO2: Understand the photochemistry, pericyclic and Hetero cyclic reactions

Inorganic Chemistry – II / Semester – III

Sub.Code: KCHM32

At the end of the course the students will be able to

CO1: Understand organometallic compounds and their catalytic applications in homogeneous and heterogeneous systems.

CO2: Know the applications of NMR and EPR techniques in inorganic systems.

CO3: Understands the basic principles and applications of thermo and spectroanalytical techniques.

CO4: Apply inorganic photochemistry and its applications in various systems.

Physical Chemistry- III Semester III

Sub.Code: KCHM33

At the end of the course the students will be able to

CO1: Learn the concepts of Group Theory.

CO2: Understand the Principles and applications of various spectroscopy.

Scientific - Research Methodology Semester – III

Sub.Code: KCHM34

At the end of the course the students will be able to

CO1: Understand the concept of literature survey, chemical abstract, problem choosing, characterization by using instrumental techniques, data analysis, computer searching for literature.

Organic Chemistry – IV Semester – IV

Sub.Code: PCHM41

At the end of the course the students will be able to

CO1: Understand the intermediate reactions, conformational, synthetic analysis, important Reagents in organic synthesis and the Steroid compounds.

Inorganic Chemistry- IV Semester – IV

Sub.Code: PCHM42

At the end of the course the students will be able to

CO1: Recall the applications of Mossbauer, photoelectron and nuclear quadrupole resonance spectroscopic techniques in inorganic systems.

CO2: Interpret the applications of ORD and CD to determine absolute configuration of chelate complexes.

CO3: Tell about bioinorganic chemistry and the role of metalloporphyrins and metalloenzymes in various biological processes.

CO4: Get an insight into material science.

Physical Chemistry- IV Semester – IV

Sub.Code: PCHM43

At the end of the course the students will be able to

CO1: To understand the Principles and applications of Vibrational and Raman spectroscopy

CO2: To obtain Knowledge Fast reaction study

CO3: To learn the Theories and applications of Kinetics

CO4: To Know the Principles of Surface Chemistry and Catalysis

Physical Chemistry Practical-IV Semester – IV

Sub.Code: PCHL43

At the end of the course the students will be able to

CO1: Obtain and improve the Knowledge of Potentiometric Titrations.

CO2: Understand the Principles and applications of Adsorption.

(B.Sc. Computer Science) / Semester – I

Programming in C++ Sub.Code: SMCS21

At the end of the course the students will be able to

CO1: Obtain knowledge about the structure of the programming language C and to develop the program writing and logical thinking skill.

(B.Sc. Computer Science) / Semester – I

Digital Design Sub.Code: SACS21

At the end of the course the students will be able to

CO1: Apply basic concepts for clear understanding of digital design principles and to solve practical problems.

(B.Sc. Computer Science) / Semester – II

Object Oriented Programming in C++ Sub.Code: JMCS41

At the end of the course the students will be able to

CO1: Gain the basic knowledge of object oriented programming concepts.

CO2: Understand the detail idea of C++ streams, Inheritance, Overloading of operators, functions, constructors, File Handling and templates concepts of C++ programming.

(B.Sc. Computer Science) / Semester – II / Major Practical - II

Programming in C++

At the end of the course the students will be able to

CO1: Gain knowledge about the object oriented programming concepts and C++ streams, Inheritance, Overloading of operators, functions, constructors, File Handling and templates concepts of C++ programming by implementing sample programs.

(B.Sc. Computer Science) / Semester – II

Multimedia applications & Technology Sub.Code: JMCS4A

At the end of the course the students will be able to

CO1: Understand the concept of digital systems, to operate on various number systems and simplify Boolean functions and to distinguish logical and combinational circuits.

(B.Sc. Computer Science) / Semester – II / Ecommerce Sub.Code: JACS41

At the end of the course the students will be able to

CO1: Understand the concept of e-commerce and e-security.

(B.Sc. Computer Science) / Semester – III/ Web technology Sub.Code: JMCS31

At the end of the course the students will be able to

CO1: Understand the use of internet .

CO2: Know how to embed VBscript in HTML.

(B.Sc. Computer Science) / Semester – III/ Java Sub.Code: JMCS32

At the end of the course the students will be able to

CO1: Know the data type, arrays and variables.

CO2: Understand the package and interfaces.

(B.Sc. Computer Science) / Semester – III/ Computer Architecture

Sub.Code: JACS31

At the end of the course the students will be able to

CO1: Know the computer organization and Design.

CO2: Understand input output organization and advanced processing.

**(B.Sc. Computer Science) / Semester – IV/ Basic program Design Sub.Code:
JNCS4A**

At the end of the course the students will be able to

CO1: Understand the evolution and generation of programming language.

CO2: Create the computer software.

(B.Sc. Computer Science) / Semester – V/ Operating system Sub.Code: GMCS61

At the end of the course the students will be able to

CO1: Define the data structure oriented design and software development project.

CO2: Know the user interface design and coding and testing.

(B.Sc. Computer Science) / Semester – V

Computer Graphics and Multimedia Sub.Code: GMCS52

At the end of the course the students will be able to

CO1: Understand the graphics and multimedia.

(B.Sc. Computer Science) / Semester – VI

Operating System Sub.Code: GMCS61

At the end of the course the students will be able to

CO1: Illustrate Synchronization and memory management.

CO2: Tell the implementing file system and mass storage structure

(B.Sc. Computer Science) / Semester – VI

Data Mining Sub.Code: GMCS63

At the end of the course the students will be able to

CO1: Recall the association rule mining and data mining.

CO2: Understand the cluster analysis.

I B.Sc., Physics/Semester –I

Mechanics and Relativity Sub.Code: SMPH11

At the end of the course the students will be able to

CO1: To know how to use Newton's laws of motion.

CO2: To solve advanced problems involving the dynamic motion of classical mechanical systems.

I B.Sc., Physics/Semester –I

Properties of Matter and Acoustics

Sub.Code: SMPH12

At the end of the course the students will be able to

CO1: Deal with forces and energy between atoms and molecules.

CO2: Understand the mechanical properties of matter.

I B.Sc., Physics/Semester –II

Thermal Physics and Statistical Mechanics

Sub.Code: SMPH21

At the end of the course the students will be able to

CO1: Understand thermodynamics laws and their statistical mechanics.

CO2: Understand of the thermodynamics laws and their statistical nature.

I B.Sc., Physics/Semester –II/ Optics Sub.Code: SMPH22

At the end of the course the students will be able to

CO1: Know about the object of abstract study of a body knowledge for design.

(B.Sc.Physics) / Semester – I / Allied Physics – I

At the end of the course the students will be able to

CO1: Know about surface tension and Viscosity

CO2: Understand elasticity and bending moment.

Semester – II / Allied - II Allied Physics – II

At the end of the course the students will be able to

CO1: Know about electricity and electromagnetism.

CO2: Get knowledge about electronics and nuclear physics.

(B.Sc. Physics)/Semester-III/ Electricity and Magnetism

Sub.Code: JMPH31

At the end of the course the students will be able to

CO1: Understand the concepts in electrical magnetism reinforce, general problem solving skills and apply knowledge of electricity and magnetism.

CO2: Explain natural physical processes.

(B.Sc. Physics)/Semester-III/ Maintenance of Electrical Appliances Sub.Code: JSPH3A

At the end of the course the students will be able to

CO1: Know installation of electric equipment.

CO2: Test the electrical equipment.

CO3: Understand the various types of electrical equipment.

(B.Sc. Physics)/Semester-IV/Programming with C++ Sub.Code: JMPH41

At the end of the course the students will be able to

CO1: Understand the concepts of data abstraction & encapsulation.

CO2: Learn how to overload function and operates in C++

(B.Sc. Physics)/Semester-IV/ Maintenance of Electric Equipment Sub.Code: JSPH4A

At the end of the course the students will be able to

CO1: Know installation of electrical equipment

CO2: Test electrical equipment.

CO3: Understand the various types of electrical equipment.

(B.Sc. Physics)/Semester-V/ Atomic Physics Sub.Code: GMPH51

At the end of the course the students will be able to

CO1: Understand the electronic structure of atoms and molecules.

CO2: Know the properties of atomic and molecular spectra.

(B.Sc. Physics)/Semester-V/ Basic Electronics

Sub.Code: GMPH52

At the end of the course the students will be able to

CO1: Acquire the basic engineering technique.

CO2: Design and analyze the circuits of op-amps, diodes, BJTS & FETS using modern computing tools.

(B.Sc. Physics)/Semester-V/ Quantum Mechanics

Sub.Code: GMPH5B

At the end of the course the students will be able to

CO1: Connect the historical development of quantum mechanics.

CO2: Learn the basic properties of quantum world.

(B.Sc. Physics)/Semester-V/ Solid state Physics

Sub.Code: GMPH5CA

At the end of the course the students will be able to

CO1: Gain an extended knowledge of the principles and techniques of solid state.

CO2: Explain the basic mathematical tools.

(B.Sc. Physics)/Semester-VI/ Nuclear Physics

Sub.Code: GMPH61

At the end of the course the students will be able to

CO1: Understand the fundamental principles of concepts governing nuclear particle.

(B.Sc. Physics)/Semester-VI/ Spectroscopy

Sub.Code: GMPH62

At the end of the course the students will be able to

CO1: Provide an increased knowledge of advanced chemical principles.

CO2: Understand how lights interact with matter.

(B.Sc. Physics)/Semester-VI/ Digital electronics

Sub.Code: GMPH63At

At the end of the course the students will be able to

CO1: Know how analogs signal are used to represent digital values in different logic families

CO2: Describe the combinational logic function.

(B.Sc. Physics)/Semester-VI/Energy Physics

Sub.Code: GMPH6B

At the end of the course the students will be able to

CO1: Understand the various forms of conventional energy resources their potential.

CO2: Learn the present Energy Scenario.

I B.Com /I Semester

Financial Accounting

Sub.Code: SMCO11

CO1: To acquire conceptual knowledge of financial accounting.

CO2: To impart skills for recording various kinds of business transactions.

I B.Com /I Semester

Business Organisation

Sub.Code: SMCO12

At the end of the course the students will be able to

CO1: Understand business and its role in society.

CO2: Undertake business activities.

I B.Com /I Semester

Business Economics

Sub.Code: SACO11

At the end of the course the students will be able to

CO1: Identify the role of supply and demand in a market economy.

CO2: Enhance knowledge on recent economic trend.

I B.Com / II Semester

Financial Accounting II

Sub.Code: SMCO21

At the end of the course the students will be able to

CO1: Enhance critical and analytical approach to different types of accounting.

CO2: Give real life opportunities to manage business accounts.

I B.Com / II Semester

Principles of Management

Sub.Code: SMCO22

CO1: Define the concepts and principles of management.

CO2: Impart knowledge on the functions of management.

I B.Com / II Semester/ Marketing

Sub.Code: SACO21

At the end of the course the students will be able to

CO1: Understand the basic marketing concepts.

CO2: Create skills to develop marketing strategies based on product, price, place and promotion objectives.

II B.Com / III Semester

ADVANCE FINANCIAL ACCOUNTING-I

Sub.Code: JMCO31

At the end of the course the students will be able to

CO1: Know the system of accounting followed in branches and department of business organization.

CO2: Know the pattern of recording transactions in hire purchase and installment purchase systems.

CO3: Understand the accounting treatment to be followed at the time of insolvency of an individual and while taking a lease of property.

II B.Com / III Semester

BUSINESS STATISTICS Sub.Code: JMCO32

CO1: Gain the basic knowledge of statistical techniques as are applicable to business.

CO2: Apply statistical techniques for quantification of data in business.

II B.Com / III Semester

BANKING Sub.Code: JMCO33

At the end of the course the students will be able to

CO1: Create an idea of modern banking.

CO2: Know the banking activities.

II B.Com / III Semester

HUMAN RESOURCE MANAGEMENT Sub.Code: GACO31

At the end of the course the students will be able to

CO1: Know about the importance of human resource.

CO2: Illustrate the techniques of performance appraisal of employees.

CO3: Know the methods to redress the grievances of employees

II B.Com / III Semester

COMPANY ORGANISATION Sub.Code: JACO321

At the end of the course the students will be able to

CO1: Give a fundamental exposure to students on the basic concepts of a company.

CO2: Learn about the functioning of a company.

II B.Com / III Semester

NME - INTRODUCTION TO ACCOUNTANCY Sub.Code: JNCO3A

At the end of the course the students will be able to

CO1: Prepare and provide accounting information to the interested parties.

CO2: Enhance the knowledge of the fundamental and technical concepts of accounting.

II B.Com / III Semester

BUSINESS COMMUNICATION Sub.Code: JSCO3A

At the end of the course the students will be able to

CO1: Acquire skills in reading, writing, comprehension and communication.

CO2: To make them use electronic media for business communication.

II B.Com /IV Semester

ADVANCED FINANCIAL ACCOUNTING –II Sub.Code: JMCO41

At the end of the course the students will be able to

CO1: Understand the nature and system of accounting followed in partnership firm.

CO2: Know the procedures to be followed at the time of admission, retirement and death of a partner in a partnership business.

CO3: Know the procedures to be followed of dissolution of partnership

II B.Com /IV Semester

BUSINESS MATHEMATICS Sub.Code: JMCO42

At the end of the course the students will be able to

CO1: Acquire basic knowledge of mathematical techniques as are applicable to business.

CO2: Find out practical solutions for the managerial problems.

II B.Com /IV Semester

COMPUTER APPLICATIONS IN BUSINESS

Sub.Code: JACO41

At the end of the course the students will be able to

CO1: Know the applications of E-Commerce.

CO2: Know online trading.

CO3: Understand E-Payment methods.

II B.Com /IV Semester

NME -FINANCIAL ACCOUNTING

Sub.Code: JNCO4A

At the end of the course the students will be able to

CO1: Explain the concept and role of accounting and financial reporting in the modern marketing economy.

CO2: Explain the regulatory frame work for the operation of fundamental accounting.

II B.Com/IV Semester

ENTREPERNEURSHIP DEVELOPMENT

Sub.Code: JSCO4C

At the end of the course the students will be able to

CO1: Develop and strengthen the entrepreneurial quality among the students.

CO2: Know the sources of help and support available for starting a small scale.

III B.Com /V Semester

CORPORATE ACCOUNTING – I

Sub.Code: GMCO51

At the end of the course the students will be able to

CO1: Tell the issue, allotment and forfeiture of shares of companies.

CO2: Prepare final accounts according to companies Act, 2013.

CO3: Know how to value the goodwill and shares.

III B.Com /V Semester

COST ACCOUNTING

Sub.Code: GMCO52

At the end of the course the students will be able to

CO1: Acquire the basic knowledge of cost in business concern.

CO2: Understand the techniques of cost control.

III B.Com /V Semester

BUSINESS LAW

Sub.Code: GMCO53

At the end of the course the students will be able to

CO1: Understand the definition of business law.

CO2: Recall the scope and boundaries of business law.

III B.Com /V Semester

INCOME TAX LAW AND PRACTICAL - I

Sub.Code: GMCO5A

At the end of the course the students will be able to

CO1: Understand the basic concepts of income tax.

CO2: Know the provisions regarding computation of first three heads of income.

III B.Com /V Semester

APPLICATION OF TALLY IN ACCOUNTING

Sub.Code: GMCO5C

At the end of the course the students will be able to

CO1: Utilize practical knowledge regarding the concepts of financial accounting.

CO2: Get placement for students in different offices as well as companies.

III B.Com /VI Semester

CORPORATIVE ACCOUNTING – II

Sub.Code: GMCO61

At the end of the course the students will be able to

CO1: Know the preparation of liquidator's final statement of accounts.

CO2: Prepare the final accounts of banking company in a schedule form.

CO3: Prepare final accounts under double account system.

III B.Com /VI Semester

MANAGEMENT ACCOUNTING

Sub.Code: GMCO62

At the end of the course the students will be able to

CO1: Understand the basic management accounting concepts and their applications in managerial decision-making.

III B.Com /VI Semester

INDUSTRIAL LAW

Sub.Code: GMCO63

At the end of the course the students will be able to

CO1: Acquaint knowledge on industrial relations framework in our country.

CO2: Know various rights and benefits available to the workmen under the legislation.

III B.Com /VI Semester

AUDITING

Sub.Code: GMCO64

At the end of the course the students will be able to

CO1: Know the importance of audit in commercial and non commercial organization.

CO2: Understand the procedure to be followed while auditing the business organization.

III B.Com /VI Semester

INCOME TAX LAW AND PRACTICE – II

Sub.Code: GMCO6A

At the end of the course the students will be able to

CO1: Know the procedure for assessment and types of assessment.

CO2: Understand the computation of tax liability of individuals.

I M.Com /I Semester

Modern Marketing Management

Sub.Code: PKCM15

At the end of the course the students will be able to

CO1: Impart the Modern Marketing Management practices.

I M.Com /I Semester

Office Automation

Sub.Code: PKCM14

At the end of the course the students will be able to

CO1: Learn Modern Methods of Office Automation through computers.

I M.Com /I Semester

Management Concepts and Organizational Behaviour

At the end of the course the students will be able to

CO1: Understand the conceptual frame work of management and organizational behaviour.

I M.Com /I Semester

Advanced Business Statistics

Sub.Code: PKCM12

CO1: To acquaint students with some important satisfied techniques for managerial decision making.

I M.Com /I Semester

Management Accounting

Sub.Code: PKCM11

At the end of the course the students will be able to

CO1: Know the Management accounting practices used by Management for effective administration.

I MCom /II Semester

Financial Management

Sub.Code: PKCM21

At the end of the course the students will be able to CO1: To make the students acquainted with modern principles of financial management.

I MCom /II Semester

QUANTITATIVE TECHNIQUES FOR DECISION MAKING **Sub.Code: PKCM22**

At the end of the course the students will be able to

CO1: Use quantitative models in decision making.

I MCom /II Semester

Local Framework Of Business

Sub.Code: PKCM23

At the end of the course the students will be able to

CO1: Create the knowledge of legal perspective and its practices to improve the business.

I MCom /II Semester

Business Environment

Sub.Code: PKCM24

At the end of the course the students will be able to

CO1: Understand the changing environment around the business.

I BA English /I Semester

Part II ENGLISH

Sub.Code: S2EN11

At the end of the course the students will be able to

CO1: Exposure to standard literary pieces from prose, poetry, short stories, one act plays,drama and fiction.

CO2: Write correct and good English.

CO3: Correct build up the vocabulary.

I BA English /I Semester

INDIAN WRITING IN ENGLISH – I

Sub.Code: SMEN11

At the end of the course the students will be able to

CO1: Learn the rich literary tradition in Indian Writing in English.

CO2: Acquaint various genres in Indian Writing in English.

I BA English /I Semester

BRITISH FICTION

Sub.Code: SMEN12

At the end of the course the students will be able to

CO1: Recall evolution of the genre of fiction in Britain.

CO2: Enhance vocabulary and usage of English through reading.

I BA English /I Semester

AUSTRALIAN LITERATURE Sub.Code: SMEN13

At the end of the course the students will be able to

CO1: Know Australian literary texts and approach them from a postcolonial perspective.

CO2: Make him approach selected texts for their literary value and cultural importance.

I BA English /I Semester

SOCIAL HISTORY OF ENGLAND

Sub.Code: SAEN11

At the end of the course the students will be able to

CO1: Understand the historical movements and the cultural politics of England.

CO2: Know the social-cultural background on which a literary text is grounded.

I BA English /I Semester

ENVIRONMENTAL STUDIES

Sub.Code: SEVS11

At the end of the course the students will be able to

CO1: Know the various aspects of Eco-system and importance of conservation.

CO2: Understand the dangers of Environmental threats due to various kinds of pollutions.

I BA English /II Semester

Part II ENGLISH

Sub.Code: S2EN21

At the end of the course the students will be able to

CO1: Give an exposure to standard literary pieces from prose, poetry, short stories, one act plays, drama and fiction.

CO2: Write correct and good English.

CO3: Correct build up the vocabulary.

I BA English /II Semester

INDIAN WRITING IN ENGLISH – II Sub.Code: SMEN21

At the end of the course the students will be able to

CO1: Know the rich literary tradition in Indian Writing in English.

CO2: Learn the various genres in Indian Writing in English.

I BA English /II Semester

AMERICAN LITERATURE

Sub.Code: SMEN22

At the end of the course the students will be able to

CO1: Know different literary era, movements and authors relating to American history and literature.

CO2: Enhance communicative and creative skills through literature.

I BA English /II Semester

ENGLISH GRAMMAR AND USAGE

Sub.Code: SMEN23

At the end of the course the students will be able to

CO1: Enhance the communicative competence by improving the grammatical skills.

CO2: Strengthen the writing skills by augmenting the grammatical skills.

CO3: Use English correctly and confidently.

I BA English /II Semester

LITERARY FORMS

Sub.Code: SAEN21

At the end of the course the students will be able to

CO1: Know various genres and forms of literature.

CO2: Learn different literary forms.

I BA English /II Semester

VALUE BASED EDUCATION/SOCIAL HARMONY

Sub.Code: SVBE21

At the end of the course the students will be able to

CO1: Understand the social realities and to inculcate an essential value system towards building a healthy society.

CO2: Understand the social realities.

CO3: Inculcate an essential value system towards building a health society.

II BA English /III Semester

Part II ENGLISH Sub.Code: J2EN31

At the end of the course the students will be able to

CO1: Give an exposure to standard literary pieces from prose, poetry, short stories, one act plays, drama and fiction.

CO2: Write correct and good English.

CO3: Build up the vocabulary.

II BA English /III Semester

BRITISH POETRY Sub.Code: JMEN31

At the end of the course the students will be able to

CO1: Provide a historical perspective of British poetry.

CO2: Interpret the selected texts from the genre of poetry.

II BA English /III Semester

History of English Literature – I Sub.Code: JAEN31

At the end of the course the students will be able to

CO1: Give clear systemic understanding of the national changes and developments that influenced the transformation of the literary tastes and standards.

II BA English /III Semester

PHONETICS AND SPOKEN ENGLISH Sub.Code: JSEN3A

At the end of the course the students will be able to

CO1: Impart proficiency in pronunciation and oral communication.

CO2: Use appropriate language skills for various communicative functions in different socio-cultural contexts.

II BA English /III Semester

ENGLISH FOR EMPLOYABILITY

Sub.Code: JNEN3A

At the end of the course the students will be able to

CO1: Enhance the language skill.

CO2: Enhance the employability skills.

II BA English /IV Semester

Part II ENGLISH

Sub.Code: J2EN41

At the end of the course the students will be able to

CO1: Give an exposure to standard literary pieces from prose, poetry, short stories, one act plays drama and fiction.

CO2: Write correct and good English.

CO3: Build up the vocabulary.

II BA English /IV Semester

BRITISH DRAMA

Sub.Code: JMEN41

At the end of the course the students will be able to

CO1: Acquaint the growth and development of English drama from a historical perspective.

CO2: Accustom various dramatic devices and techniques used in the genre.

II BA English /IV Semester

HISTORY OF ENGLISH LITERATURE – II

Sub.Code: JAEN41

At the end of the course the students will be able to

CO1: Give a clear and systemic understanding of the national changes and developments that influenced British Literature.

CO2: Know the historical movements that influenced the transformation of the literary tastes and standards.

II BA English /IV Semester

ECO ENGLISH Sub.Code: JSEN4A

At the end of the course the students will be able to

CO1: Improve their communicative competence in English both speaking and writing.

CO2: Read fast with better understanding.

CO3: Express clearly and concisely using right words in right places.

II BA English /IV Semester

BUSINESS COMMUNICATION Sub.Code: JNEN4A

At the end of the course the students will be able to

CO1: Impart the basic concepts and practices of business communication and their application in the business world today.

CO2: Write report and proposal.

III BA English/V Semester

PRE-RAPHAELITE Sub.Code: GMEN51

At the end of the course the students will be able to

CO1: Know the Pre-Raphaelite writings.

CO2: Develop a sense of Pre-Raphaelite appreciation.

III BA English/V Semester

AGE OF HARDY Sub.Code: GMEN52

At the end of the course the students will be able to

CO1: Know about the Age of Hardy through the close reading of the selected texts.

CO2: Make the approach selected texts for their literary value of the ages.

III BA English/V Semester

CANADIAN LITERATURE Sub.Code: GMEN5A

At the end of the course the students will be able to

CO1: Know Canadian literature through the close reading of the selected texts.

CO2: Make the approach selected texts for their literary value and cross cultural importance.

III BA English/V Semester

WOMEN'S WRITING Sub.Code: GMEN53

At the end of the course the students will be able to

CO1: Know about the problems women face in the patriarchal cultural milieu.

CO2: Analyse issues and questions relating to women's experience and empowerment.

III BA English /VI Semester

SHAKESPEARE Sub.Code: GMEN61

At the end of the course the students will be able to

CO1: Acquaint the dramatic and theatrical conventions of Shakespeare.

CO2: Analyse plot, characters and stage craft of his plays.

III BA English /VI Semester

SOUTH-ASIAN LITERATURE IN ENGLISH

At the end of the course the students will be able to

CO1: Learning the complexities of the region through its literature.

CO2: An understanding of South Asia's social, historical, local and global contexts.

CO3: Learning to read texts critically in order to analyse the distinctive literary strategies and devices deployed in these texts.

III BA English /VI Semester

CONTEMPORARY LITERATURE

Sub.Code: GMEN62

At the end of the course the students will be able to

CO1: Know the contemporary literature and the authors.

CO2: Acquaint with contemporary texts.

III BA English /VI Semester

LITERARY CRITICISM AND THEORY

Sub.Code: GMEN63

At the end of the course the students will be able to

CO1: Understand the various genres and forms of literary criticism.

CO2: Know different literary theories.

III BA English /VI Semester

REGIONAL LITERATURE IN ENGLISH

Sub.Code: GMEN64

At the end of the course the students will be able to

CO1: Know the rich cultural and literary heritage of the native literature.

CO2: Acquaint a flair to enjoy and appreciate native literature.

III BA English /VI Semester

AFRICAN LITERATURE

Sub.Code: GMEN6A

At the end of the course the students will be able to

CO1: Understand the cross-cultural and historical approaches to the works by major writers of Africa.

CO2: Understand the role of African literature in developing a national identity in the former

colonies of Africa.

I BA HISTORY/I Semester

HISTORY OF TAMILNADU UPTO 1336 AD

Sub.Code: SMHI12

At the end of the course the students will be able to

CO1: Know the social condition of Tamilnadu.

CO2: Understand the Land systems.

CO3: Know the Art and Education of Tamil Country

I BA HISTORY/I Semester

HISTORY OF INDIA UPTO 647 AD

Sub.Code: SMHI11

At the end of the course the students will be able to

CO1: Know the history of India.

CO2: Understand the society of India.

CO3: Understand the study of Antiquities.

I BA HISTORY/I Semester

PRINCIPLES OF TOURISM

Sub.Code: SMHI13

At the end of the course the students will be able to

CO1: Understand the concept of tourism.

CO2: Know the importance of accommodation.

CO3: Find out the various travel agencies.

I BA HISTORY/I Semester

ENVIRONMENTAL STUDIES

Sub.Code: SEVS11

At the end of the course the students will be able to

CO1: Know the various aspects of Eco-system and importance of conservation.

CO2: Understand the dangers of Environmental threats due to various kinds of pollutions.

I BA HISTORY /II Semester

HISTORY OF INDIA (647AD – 1526 AD)

Sub.Code: SMHI21

CO1: Reveal Socio-Economic and cultural changes occurred in the Decanic kingdom.

CO2: Know the salient features of the Western and Eastern influences.

CO3: Highlight the influence of important Battles on Indian history.

I BA HISTORY /II Semester

MODERN CONSTITUTIONS

Sub.Code: SAHI21

At the end of the course the students will be able to

CO1: Develop understanding of evolution of modern legal system in India.

CO2: Examine the evolution of Indian administration.

CO3: Inculcate the spirit of the constitution among the students.

I BA HISTORY /II Semester

VALUE BASED EDUCATION

Sub.Code: SVBE21

At the end of the course the students will be able to

CO1: Understand the social realities.

CO2: Inculcate an essential value system towards building a health society.

II BA HISTORY /III SEMESTER

PANCHAYAT RAJ INDIA WITH A REFERENCE TO TAMILNADU

Sub.Code: JSHI3B

At the end of the course the students will be able to

CO1: Bring about the direct and village participation of the villagers in development.

CO2: evaluate the rural development activities of gram Panchayat.

CO3: Give suggestions for the better implementation of policies and development.

II BA HISTORY /III SEMESTER

MODERN POLITICAL THOUGHT

Sub.Code: JAH131

At the end of the course the students will be able to

CO1: Create awareness about the distinctive features of political theory and Modern political thought of India.

CO2: Know about the contributions of the modern Indian Thinkers and the relative autonomy of Indian political thought.

II BA HISTORY /IV SEMESTER

EPIGRAPHY

Sub.Code: JSH14B

At the end of the course the students will be able to

CO1: Know about the ancient world and inscribed texts.

CO2: Identify and select sources, using traditional and modern techniques.

CO3: Insight into the theories, key concepts, apparatus, research methods and techniques of epigraphy.

II BA HISTORY /IV SEMESTER

INDIAN ADMINISTRATIVE SYSTEM

Sub.Code: JAH141

At the end of the course the students will be able to

CO1: Know the importance of Indian economic plan.

CO2: Understand the functions of Indian Government.

II BA HISTORY /IV SEMESTER

INDIAN CONSTITUTION II

Sub.Code: JNHI4B

At the end of the course the students will be able to

CO1: Know historical background of constitution.

CO2: Tell the unique features of the constitution.

CO3: Understand the political scenario behind the origin of the constitution.

III BA HISTORY/V SEMESTER

HISTORY OF FAR EAST

Sub.Code: GMHI5C

At the end of the course the students will be able to

CO1: Know the opening of Chinese civilization to the European.

CO2: Understand the reaction of Chinese towards the Europeans.

CO3: Assess the causes, nature, consequences of Opium war in China.

III BA HISTORY/V SEMESTER

HISTORY OF EUROPE

Sub.Code: GMHI52

At the end of the course the students will be able to

CO1: Learn the general course of human history in multiple areas of the world.

CO2: Explain how and why important events happen and change over time occurs.

CO3: Create knowledge and communicate it to others both orally and in writing.

III BA HISTORY/V SEMESTER

HISTORY OF TAMILNADU

Sub.Code: GMHI51

At the end of the course the students will be able to

CO1: Know the scope of the study of ancient history of Tamilnadu.

CO2: Understand the origin of the religion.

CO3: Understand the political ideas.

III BA HISTORY/V SEMESTER

FREEDOM MOVEMENT IN INDIA

Sub.Code: GMHI5B

At the end of the course the students will be able to

CO1: Understand the need of freedom movement.

CO2: Know the courses of freedom movement.

CO3: Know and feel the people's conditions of the British rule in India.

III BA HISTORY/V SEMESTER

PERSONALITY DEVELOPMENT

Sub.Code: GCSB5A

At the end of the course the students will be able to

CO1: Know the basic concept of personality.

CO2: Understand the nature of personality and factors contributing the formation of personality.

CO3: Understand the basic theories of personality.

III BA HISTORY/VI SEMESTER

HISTORY OF SCIENCE AND TECHNOLOGY

Sub.Code: GMHI63

At the end of the course the students will be able to

CO1: Know about the origin of the Science and Technology.

CO2: Know the development of Indian Science.

CO3: Understand the Effects of Science and Technology.

III BA HISTORY/VI SEMESTER

INTERNATIONAL RELATIONS

Sub.Code: GMHI6B

At the end of the course the students will be able to

CO1: Understand the Foreign policy of India.

CO2: Trace the relationship of India with the neighbouring states.

CO3: Identify the role of India in SAARC.

(B.Sc. Mathematics) / Semester – I / Core – 2

CLASSICAL ALGEBRA

Sub.Code: SMMA12

At the end of the course the students will be able to

CO1. Gain the knowledge about theory of equations.

CO2. Find out the relationship between roots about coefficients.

(B.Sc. Mathematics) / Semester – I

CALCULUS

Sub.Code: SMMA11

At the end of the course the students will be able to

CO1. Gain foundation about curvature.

CO2. Know about the pedal equation.

(B.Sc. Mathematics) / Semester – II

Analytical geometry of 3D

Sub.Code: SMMA21

At the end of the course the students will be able to

CO1. Define the foundation of analytical geometry of 3D coordinate system.

CO2. Know about the plane in different forms.

(B.Sc. Mathematics) / Semester – II

Differential Equations

Sub.Code: SMMA22

At the end of the course the students will be able to

CO1. Gain knowledge about first order higher degree equations.

CO2. Gain idea about partial different equations.

(B.Sc. Mathematics) / Semester – III/Real analysis I Sub.Code: JMMA31

At the end of the course the students will be able to

CO1. Learn how to apply comparison, root, and Cauchys condensation test.

CO2. Calculate the limit superior , limit inferior and limit of a sequence.

(B.Sc. Mathematics) / Semester – III/Statistics I

Sub.Code: JAST11

At the end of the course the students will be able to

CO1. Expose the concepts of moments, skewness, kwtosis, Correlation

CO2. Understand the fundamental of binomial poisson and normal distributions.

CO3. Apply these distribution in day to day problems.

(B.Sc. Mathematics) / Semester – III/ Vector Calculus (SBE) Sub.Code: JSM3A

At the end of the course the students will be able to

CO1. Calculate the divergence of a vector field.

CO2. Evaluate line, surface and volume integrals and apply them to solve problems.

(B.Sc. Mathematics) / Semester – III/Algebra & Differential equations (Allied –I)

At the end of the course the students will be able to

CO1. Understand the concept of classification of datas.

CO2. Apply basic statistics in our day to day life.

(B.Sc. Mathematics) / Semester – IV/ Abstract Algebra

Sub.Code: JMMA41

At the end of the course the students will be able to

CO1. Understand the concept of groups and rings.

CO2. Know the art of proof writing.

(B.Sc. Mathematics) / Semester – IV/ Statistics II

Sub.Code: JAST21

At the end of the course the students will be able to

CO1. Perform and analyze a variety of statistical inference procedures.

CO2. Discuss when particular procedures can be applied and how to choose the most appropriate test.

(B.Sc. Mathematics) / Semester – IV

Trigonometry, Laplace transform and Fourier series (SBE)

Sub.Code: JSMA4A

At the end of the course the students will be able to

CO1. Expand the trigonometric functions.

CO2: Understand the concept of hyperbolic functions.

CO3. Know about the concept of fourier series.

Fundamental of Statistics II (NME)

Sub.Code: JNMA4B

At the end of the course the students will be able to

CO1. Understand the concept of theory of attributes.

CO2. Learn characteristics of index numbers and find index numbers using various methods.

(B.Sc. Mathematics) / Semester – IV/Vector Calculus & Fourier Series (Allied)

At the end of the course the students will be able to

CO1. Understand the concept of vector differentiation and to evaluate the double & triple integrals.

CO2. Learn about the line, surface and volume integrals.

(B.Sc. Mathematics) / Semester – V/Linear Algebra Sub.Code: GMMA51

At the end of the course the students will be able to

CO1. Understand the fundamental concepts of linear algebra culminating in abstract vector spaces and linear transformations.

(B.Sc. Mathematics) / Semester – V/Real Analysis Sub.Code: GMMA52

At the end of the course the students will be able to

CO1. Gain a knowledge in basic set theory, the real numbers and their basic properties.

(B.Sc. Mathematics) / Semester – V/Combination Mathematics Sub.Code: GMMA5B

At the end of the course the students will be able to

CO1. Know how to use these structures to represent mathematical and applied questions.

CO2. Analyze combinational structures.

(B.Sc. Mathematics) / Semester – V/Programming in C Sub.Code: GMMA5D

At the end of the course the students will be able to

CO1. Understand Computer Programming and its roles in program solving.

CO2. Understand and develop well structured programs using C language.

(B.Sc. Mathematics) / Semester – V/Personality Development Sub.Code: GCSB5A

At the end of the course the students will be able to

CO1. Build Self-confidence, enhance Self-esteem.

CO2. Understand Socially and Professionally, in formal and informal circumstances.

(B.Sc. Mathematics) / Semester – VI/Complex Analysis Sub.Code: GMMA61

At the end of the course the students will be able to

CO1. Understand the fundamental ideas of the functions of complex variables and developing.

(B.Sc. Mathematics) / Semester – VI/Linear Programming Sub.Code: GMMA62

At the end of the course the students will be able to

CO1. Obtain an overview of the kinds of problems linear programming.

CO2. Solve two variable linear programming models.

(B.Sc. Mathematics) / Semester – VI/Mechanics Sub.Code: GMMA63

At the end of the course the students will be able to

CO1. Develop the capacity to predict the effects of force and motion.

CO2. Develop this ability to visualize.

(B.Sc. Mathematics) / Semester – VI/Graph Theory Sub.Code: GMMA64

At the end of the course the students will be able to

CO1. Understand and apply the fundamental concepts in graph theory.

(B.Sc. Mathematics) / Semester – VI/Number Theory Sub.Code: GMMA6A

At the end of the course the students will be able to

CO1. Identify and apply various properties of and relating to the integers.

CO2. Understand the concept of a congruence and use various results related to congruences.

(M.Sc. Mathematics) / Semester – I/Algebra

Sub.Code: PMAM11

At the end of the course the students will be able to

CO1. Give foundation in Algebraic structures like Groups, Rings.

CO2. Define problem solving in Algebra.

(M.Sc. Mathematics) / Semester – I

Ordinary Differential Equations

Sub.Code: PMAM14

At the end of the course the students will be able to

CO1. Give an in-depth knowledge of Differential Equations and their applications.

CO2. Understand the existence, uniqueness, stability behaviour of the solutions of ODE.

(M.Sc. Mathematics) / Semester – I

Analytic Number Theory

Sub.Code: PMAM13

At the end of the course the students will be able to

CO1. Know the charm, niceties and nuances in the world of numbers.

CO2. Highlight some of the applications of the Theory of Numbers.

(M.Sc. Mathematics) / Semester – I/Numerical Analysis

Sub.Code: PMAM15

At the end of the course the students will be able to

CO1. Know the theory behind various numerical methods.

CO2. Apply the methods to solve the mathematical problems.

(M.Sc. Mathematics) / Semester – II/Algebra II

Sub.Code:PMAM21

At the end of the course the students will be able to

CO1. To introduce the concepts and working knowledge of various structures like rings and fields.

CO2. To develop computational skills in algebra.

(M.Sc. Mathematics) / Semester – II/Analysis II

Sub.Code: PMAM22

At the end of the course the students will be able to

CO1. Develop the comprehensive idea about the underlying principles of Mathematical Analysis.

CO2. Analyse abstract thinking

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(M.Sc. Mathematics) / Semester – II/Graph Theory

Sub.Code: PMAM25

At the end of the course the students will be able to

CO1. Know the fundamental concepts in graph theory such as flows and connectivity.

CO2. Develop the concepts of graphs, Hamiltonian graphs, Tress, plannar graphs, matrix representation, matching and vertex colouring.

(M.Sc. Mathematics) / Semester – II/Classical Mechanics

Sub.Code: PMAMQ3

At the end of the course the students will be able to

CO1. Know the various aspects of Classical Mechanics.

CO2. Develop skills in formulating and solving physics problems.

(M.Sc. Mathematics) / Semester – II/Differential Geometry

Sub.Code: PMAM24

At the end of the course the students will be able to

CO1. Understand the key concepts and techniques of differential geometry.

CO2. Improve the ability to read and communicate about mathematical concepts and proofs.

(M.Sc. Mathematics) / Semester – II/Programming in C++

Sub.Code: PMAE21

At the end of the course the students will be able to

CO1. Inculcate the techniques of Programming concepts.

CO2. Have an in-depth knowledge of Algorithms and Programs in C++.

(M.Sc. Mathematics) / Semester – III/Measure and Integration Sub.Code: KMAM31

At the end of the course the students will be able to

CO1. Know the concepts of measure and integral with respect to a measure.

CO2. Provide a basis for further studies in Analysis, Probability and Dynamical System.

(M.Sc. Mathematics) / Semester – III/Topology Sub.Code: KMAM32

At the end of the course the students will be able to

CO1. Know the Introduction to Topology is to be familiar with basic concepts of topology.

CO2. Gain mathematical maturity, to become competent in writing proofs.

(M.Sc. Mathematics) / Semester – III/Research Methodology Sub.Code: KMAM33

At the end of the course the students will be able to

CO1. Emphasize how aims are to be accomplished.

CO2. Address the more immediate project outcomes.

(M.Sc. Mathematics) / Semester – III/Operations Research Sub.Code: KMAE32

At the end of the course the students will be able to

CO1. Identify and develop operational research models.

CO2. Solve optimization problems, to use mathematical software to solve the proposal models.

(M.Sc. Mathematics) / Semester – IV/Complex Analysis Sub.Code: KMAM42

At the end of the course the students will be able to

CO1. Investigate function of Complex numbers.

CO2. Use algebraic geometry, number theory, analytic combinations and in physics including the branches of hydrodynamics, thermodynamics & particularly quantum mechanics.

(M.Sc. Mathematics) / Semester – IV/Functional Analysis
KMAM41

Sub.Code:

At the end of the course the students will be able to

CO1. Core of this subject is vector spaces endowed with some kind of limit related structure such as innerproduct norm topology etc.,

CO2. Use differential and integral equations.

(M.Sc. Mathematics) / Semester – IV/Differential Geometry
KMAM43

Sub.Code:

At the end of the course the students will be able to

CO1. Understand the problem in geometry using techniques in differential calculations, integral calculations, linear algebra and multi linear algebra.

இளங்கலை – தமிழ் - பாடத்திட்டம் முதலாமாண்டு முதற்பருவம்

இலக்கணம் - நன்னூல் - எழுத்ததிகாரம் (பொதுப்பாயிரம், சிறப்புப்பாயிரம் நீங்கலாக)

நோக்கம்: தமிழ் இலக்கிய மாணவர்கள் எழுத்திலக்கண அறிவுபெறுதல் எழுத்து பிறக்கும் முறைகளை இடங்களை உணர்தல், எழுத்துகளை வகைப்படுத்துதல் பகுபதம், பகாபதம் அறிதல், நிலைமொழி – வருமொழிப் புணர்ச்சி, உருப்புணர்ச்சி முதலான எழுத்துகளின் இலக்கண அறிவு பெறுதல்.

முதலாமாண்டு முதற்பருவம் துணைமைப் பாடம்

புய்யு11

நோக்கம் : நாட்டுப்புறவியலைப் பற்றி அறியச் செய்தல்.

முதலாமாண்டு இரண்டாம் பருவம் துணைமைப் பாடம் நாட்டுப்புறவியல்

நோக்கம்: நாட்டுப்புற மக்களின் கலைகளை அறிதல். நாட்டுப்புற மக்களின் வாழ்வியலில் நம்பிக்கைகளையும், பொழுதுபோக்கு நிகழ்வுகளையும்.

(B.A. Tamil) Semester-III/

முதன்மைப் பாடம் இலக்கணம் - யாப்பு, அணி

நோக்கம் : படைப்பாளர்கள் இலக்கியங்களில் புனைந்துள்ள சுவைகளையும், இன்பங்களையும் மாணவர்கள் அறிந்து கொள்ளுதல்.

Skilled based -I (A)/ (Optional)

திறன் வளர் பாடம் கல்வெட்டியல்

நோக்கம்: தமிழ் இலக்கியம் பயிலும் மாணவர்கள் இரண்டாயிரம் ஆண்டுகட்கும் முற்பட்ட நீண்ட நெடிய பாரம்பரியமுடைய தமிழர்களின் பாரம்பரியத்தை பண்டைய இலக்கியங்கள் மூலம் அறிந்து வருகின்றனர். சங்க இலக்கிய நூல்கள் பற்றிய குறிப்புகளும், சங்க இலக்கியங்களில் காணப்படும் பாடல் வரிகளும் கல்வெட்டுகளில் பல இடங்களில் எடுத்தாளப்பட்டுள்ளன. எனவே மாணவர்கள் கல்வெட்டுகள் மூலமாகவும் தமிழக வரலாற்றை அறிந்து கொள்ள வேண்டும் என்ற நோக்கத்துடன் இப்பாடம் அமைக்கப்பட்டுள்ளது.

Semester-III/Ppr.no.18 (A)/ Non-Major Elective-I (A)

துறைசாரா பாடம் (பிற துறை மாணவர்களுக்கு) நாட்டுப்புறவியல் அறிமுகம்

நோக்கம்: நாட்டுப்புறவியலைப் பற்றி அறிந்துகொள்ளுதல். நாட்டார் இலக்கியங்களைத் தொகுக்கவும், அவற்றைப் பாதுகாக்கவும் ஆர்வத்தை ஏற்படுத்துதல். பண்டைய, தற்கால மக்களின் வாழ்க்கைமுறையையும், பண்பாட்டையும் அறிந்து கொள்ள ஊக்கப்படுத்துதல். பயன்: மக்களிடம் புதைந்து கிடக்கும் நாட்டுப்புறவியல் கூறுகளை அறிந்து கொண்டு, இலக்கியங்களைத் தொகுத்துப் பாதுகாக்க விழிப்புணர்வை ஏற்படுத்துதல்.

Semester-III/Ppr.no.18 (B)/ Non-Major Elective-I (B)

துறைசாரா பாடம் (பிற துறை மாணவர்களுக்கு) ஊடகத்தமிழ் பாட நோக்கம்: ஊடகப் பயன்பாட்டின் சிறப்பினை அறியும் வகை

(B.A. Tamil) Semester-IV/Ppr.no.21/Core-6

முதன்மைப் பாடம் பொருள் இலக்கணம் - அகம், புறம் நோக்கம் : 1. தமிழர் இலக்கியக் கோட்பாட்டைக் கற்றல்

2. இலக்கியக் கோட்பாடு வழி பண்டைத் தமிழர் வாழ்க்கை நெறிகளை அறிதல்

Semester-IV/ Ppr.no.24 (B) / Non-Major elective-II (B)/(Optional)

துறைசாரா பாடம் அறிவியல் தமிழ்

நோக்கம் : 1. தாய்மொழி வழிக் கல்வியின் சிறப்பு கருதி அறிவியல் தமிழை அறிமுகம் செய்தல் 2. அறிவியல் தொழில் நுட்ப அறிவைத் தமிழ் வழியில் போதித்தல் 3. தமிழ்மொழி வரலாற்றில் அறிவியல் தமிழின் பங்கை வெளிப்படுத்துதல்.

ஐந்தாம் பருவம் - முதன்மை விருப்பப் பாடம்

பயண இலக்கியம்

நோக்கம் மக்கள் மேற்கொள்ளும் பயணங்களின் வழியாக அவ்விடங்களின் சிறப்பையும் மக்களின் பல்துறைச் சார்ந்த செய்திகளையும் புரிந்துகொள்ள வழிவகை செய்தல்.

V Semester முதன்மை விருப்பப் பாடம்

Major Elective; - தன் வரலாற்றியல் டாக்டர் உ.வே.சாவின் சரித்திரம் நோக்கம் பலகாலமாகப் புதைந்து கிடந்த தமிழ் நூல்களைத் துலக்கி தமிழுலகம் கண்டு கற்று இன்புறச் செய்தப் புலமையும் ஆராய்ச்சியும் பதிப்பாற்றலும் நேர்மையும் உடைய பெரும்புலவரான டாக்டர் - உ.வே.சாமிநாதையார் அவர்களின் வாழ்நாள் வரலாற்றின் சில நினைவுகள் தமிழ் இலக்கிய மாணவர்கள் படித்து இன்புறுதல். அறிவு நுட்பமும் நுண்மான் நுழைபுலமும் கடின உழைப்பும் இணைந்தால் தான் பெரிய காரியங்களைச் சாதிக்க முடியும் என்பதை இலக்கிய மாணவர்கள் உணருவதற்கும் இலக்கிய ஆர்வத்தைத் துண்டுவதற்கும் உ.வே.சாவின் சுய சரித்திரம் வழிவகுக்கும்.

VI Semester – ஆறாம் பருவம் முதன்மைப் பாடம் Major – தாள் XI

இலக்கிய வரலாறு

GMTA63

நோக்கம் தமிழின் இலக்கிய வளத்தைப் புரிந்து கொள்ள உதவுதல்.

VI Semester – ஆறாம் பருவம் முதன்மைப் பாடம்

Major – தாள் **XII** இலக்கியத்திறனாய்வு GMTA64

நோக்கம் : இலக்கியத் திறனாய்வு பற்றிய அடிப்படை அறிவைப் புகட்டுதல்

M.A. TAMIL/SEMESTER- I/CORE-1 HTLM11

இக்கால இலக்கியம் கவிதையும் நாடகமும்

நோக்கம்

- 1) கவிதையின் வடிவங்களையும், கவிதைக்கான களங்களையும் அறிமுகம் செய்தல்
- 2) கவிதை எழுதும் ஆற்றலுக்கான அடித்தளத்தை உருவாக்குதல்.
- 3) நாடக இலக்கியத்தின் பன்முகத்தன்மையை அறியச் செய்தல்

M.A. TAMIL/SEMESTER- I

இலக்கணம் - தொல்காப்பியம் - எழுத்து ர்வுடுஆ12

நோக்கம் 1. தமிழ்மொழி அமைப்புருவாக்கத்தை அறிதல்

2. எழுத்துக்களின் வகைகளை அறிதல்
3. மொழி புணரும் இயல்புகளை அறிந்து மொழியைப் பிழையின்றி எழுதுதல்

M.A. TAMIL/SEMESTER- I

இக்கால இலக்கியம் புனைகதையும் உரைநடையும்

நோக்கம்

1. புனைகதைகளின் வளர்ச்சிநிலை, படைப்புத்திறன் இவற்றை அறிதல்.
2. உரைநடைத்திறனை வெளிக் கொணர்தல்.

M.A. TAMIL/SEMESTER- I

அற இலக்கியம் HTLM14

நோக்கம்

1. அற இலக்கியங்களை அறிந்து கொள்ளுதல்.
2. வாழ்வியலுக்கு அடிப்படை அற இலக்கியங்கள் என்ற எண்ணத்தை வலியுறுத்துதல்.

3. ஒழுக்க நெறிகளை வலியுறுத்துதல்.
4. சமுதாய விழுமியங்களைப் பேணுவதற்கு வழிகாட்டுதல்.

M.A. TAMIL/SEMESTER- I

நாட்டார் வழக்காற்றியல் அடிப்படைகள்

நோக்கம் 1. நாட்டார் வழக்காற்றியல் புலத்தை அறிமுகம் செய்தல். 2. நமது மண்ணின் மரபுகளைப் புரிந்து கொள்ளுதல் 3. இப்புலத்தை ஒரு சமூக அறிவியல் புலமாக அறிதல்.

M.A. TAMIL - SEMESTER I: சிறப்புத்தாள் - 2

ஊடகத்தமிழ்

நோக்கம்:

1. ஊடகங்களின் வரலாற்றை அறியச்செய்தல்
2. ஊடகங்களின் பணிகளைப் புலப்படுத்துதல்

மொழி வரலாறு

M.A. TAMIL - SEMESTER II

நோக்கம்:

1. மொழியின் தோற்றம், வளர்ச்சி பற்றிக் கற்பித்தல்.
2. தமிழ்மொழியின் வரலாற்றை அறியச் செய்தல்.
3. மொழிகளில் நிகழ்கின்ற மாற்றங்களைக் கற்பித்தல்.

M.A. TAMIL - SEMESTER II

இலக்கணம் - தொல்காப்பியம் - சொல் ர்வுடுஆ22

நோக்கம்

1. தமிழ் இலக்கணத்தில் இடம்பெறும் சொற்களின் வகைமைகளையும், வருகை முறைகளையும் அறிதல். 2. தமிழ்ச்சொற்கட்டமைப்பின் ஆழத்தையும் வளர்ச்சிநிலைகளையும் அறிதல்.
3. இலக்கண நூல்களில் காணப்படும் வேறுபாடுகளை அறிந்துகொள்ளல்.

M.A. TAMIL - SEMESTER II

பக்தி இலக்கியம்

HTLM23

நோக்கம் :

1. ஆன்மிகத்தின் சிறப்பையும், உண்மையையும் உணரச் செய்தல்.
2. சமய நல்லிணக்கத்தை ஏற்படுத்துதல்.

M.A. TAMIL - SEMESTER II

சிற்றிலக்கியம்

நோக்கம்:

1. சிற்றிலக்கியத்தின் இலக்கிய நயத்தை அறிமுகப்படுத்துதல்
2. சிற்றிலக்கியங்கள் வாயிலாகப் பல்வேறு காலங்களின் அரசியல் சூழ்நிலை – மக்களின் உள்பண்பு, வாழ்க்கை நிலை ஆகியவற்றை அறிதல்.

M.A. TAMIL - Semester II .: சிறப்புத்தாள் - 4

நாட்டார் பண்பாட்டு மரபுகள்

நோக்கம் : 1. நாட்டார் மரபுகளை அறிமுகம் செய்தல்

2. நாட்டார் மரபுகள் சமூகப் பண்பாட்டு வாழ்வோடு கொண்டுள்ள தொடர்புகளை உணர்த்துதல்.
3. மரபுகளின் தொன்மையையும் அவற்றின் நிகழ்காலப் பரிமாணங்களையும் அறியச்செய்தல்.

M.A. TAMIL - Semester II .: இணையத் தமிழ்

நோக்கம்:

1. தமிழ் இணையங்கள் குறித்த புரிதலை உருவாக்குதல்
2. இணையத்தளங்கள் தமிழ் கல்விக்கு உதவும் வகையை உணர்த்துதல்

M.A.(Tamil) / Semester-III / Ppr.no.11 / Core-9 காப்பிய இலக்கியம்

முவுடூ31நோக்கம்: தமிழ்க் காப்பிய இலக்கணங்களை அறிதல், தமிழ்க் காப்பிய வகைகளை உணர்த்துதல், காப்பிய இலக்கியம் சமூகச் சூழலை உள்வாங்கி வளர்ச்சியடைந்துள்ள திறனை அறிதல்

M.A.(Tamil) / Semester-III KTLM32

இலக்கணம் -

-தொல்காப்பியம் - பொருள் -

ஐ (அகம் - புறம் - களவு - கற்பு - பொருளியல்) நோக்கம்: பொருள் இலக்கண மரபினைத் தெளிவாக உணர்தல். களவு, கற்பு, குறித்தான கோட்பாடுகளைக் கண்டறிதல். போர் நெறியின் சிறப்புகளைக் கண்டறிதல்.

M.A.(Tamil) / Semester-III

ஆராய்ச்சி நெறிமுறைகள். முவுடுஆ33

நோக்கம்:

1. ஆய்வு உணர்வை உண்டாக்குதல்
2. ஆராய்ச்சிக்கு அடிப்படையான நெறிமுறைகளைக் கற்பித்தல்
3. முறைப்படியான ஆய்வேட்டை உருவாக்க வழிப்படுத்துதல்

M.A.(Tamil) Semester-III / Ppr.no.14 / Core - 12 உரை மரபு

நோக்கம்: 1.உரையாசிரியர்கள், இலக்கியம் மற்றும் இலக்கணத்தின் உயிரோட்டத்திற்கு அளித்த மாபெரும் பங்கினை அறியச் செய்தல்.

- 2.உரை மரபு, உரைத் திறன் ஆகியவற்றின் சிறப்புகளைப் புலப்படுத்துதல்.
3. உரையின் பயனை உணர்த்துதல்.

M.A.(Tamil) Semester-III /

மானிடவியல் அடிப்படைகள் நோக்கம்:

1. மானிடவியல் புலத்தை அறிமுகம் செய்தல்
2. மானிடவியலின் அடிப்படைகளை அறிதல்
3. இலக்கிய ஆய்வுக்கு மானிடவியலின் தேவையை உணர்தல்

M.A.(Tamil) Semester-III /

பண்டை இலக்கியம் நோக்கம்:

1. சங்க கால மக்களின் வாழ்வியலை அறிந்து கொள்ளல்
2. சங்க இலக்கியத்தின் செய்யுள் நுட்பங்களை அறிதல்
3. திணைக் கோட்பாடுகளை அறிதல்.

M.A.(Tamil) Semester-IV KTLM42

இலக்கணம் - ஐஐ - தொல்காப்பியம் - பொருள் - ஐஐ (மெய்ப்பாட்டியல் - உவமவியல் - செய்யுளியல் - மரபியல்) நோக்கம்:

1. பொருளதிகாரத்தைத் தெளிவாகப் புரிதல்
2. பொருளதிகாரத்தில் அடங்கியுள்ள பாவியல் அடிப்படைகளை அறிதல்.

M.A.(Tamil) Semester-IV KTLM43

இலக்கியத் திறனாய்வியல் நோக்கம்:

1. இலக்கியக் கோட்பாடுகளையும் கொள்கைகளையும் அறிதல்
2. இலக்கியத் திறனாய்வின் வகைகளைத் தெளிவுறப் புரிதல்
3. இலக்கியத் திறனாய்வின் பயன்களை அறிந்து கொள்ளுதல்

M.A.(Tamil) Semester-IV

இலக்கிய மானிடவியல்

நோக்கம்: இலக்கிய மானிடவியல் புலத்தை அறிமுகம் செய்தல், இலக்கிய வாசிப்பிற்கு மானிடவியலின் தேவையை உணர்த்துதல், மானிடவியல் அடிப்படையில் இலக்கியங்களை அர்த்தப்படுத்த கற்பித்தல்

I B.Sc Zoology /I Semester

ANIMAL DIVERSITY I – INVERTEBRATA

Sub.Code: SMZO11

At the end of the course the students will be able to

CO1: Elucidate the importance of taxonomy to know the methods of nomenclature.

CO2: Realize the differences between Protozoa and Metazoa.

CO3: Understand the structure, functional organization, adaptations and the economic importance of lower and higher invertebrates.

I B.Sc Zoology /I Semester/ ANIMAL DIVERSITY II – CHORDATA

Sub.Code: SMZO12

At the end of the course the students will be able to

CO1: Exemplify the intermediate position of prochordates between invertebrates and vertebrates.

CO2: Define the structure, functional organization, adaptations and the economic importance of lower and higher chordates.

I B.Sc Zoology /II Semester

DEVELOPMENTAL ZOOLOGY

Sub.Code:

SMZO21

At the end of the course the students will be able to

CO1: Understand the sequential change from cellular grade of organization to organ grade of organization in the development of Multicultural organisms.

I B.Sc Zoology /II Semester

ECDOGY AND TOXICOLOGY

Sub.Code: SMZO22

At the end of the course the students will be able to

CO1: Interpret the interaction and interdependence among environmental factors and living organisms.

CO2: Enumerate the ill-effects and the health hazards of toxic agents released to the environment.

CO3: Discern the evolutionary significance of animals, theories origin of species and significance.

I B.Sc Zoology /II Semester

VALUE BASED EDUCATION

Sub.Code: SVBE21

At the end of the course the students will be able to

CO1: Enable the students to understand the social realities.

CO2: Illustrate an essential value system towards building a healthy society.

II B.Sc Zoology / III Semester

CELL AND MOLECULAR BIOLOGY

Sub.Code: JMZO31

At the end of the course the students will be able to

CO1: Elucidate the structure and functions of the cell organelles.

II B.Sc Zoology / III Semester

NUTRITION AND DIETETICS

Sub.Code: JSZO3B

At the end of the course the students will be able to

CO1: Understand the importance of nutrition on one side and to study malnutrition, nutrition related diseases and special diets for persons suffering from diseases on the other.

II B.Sc Zoology /IV Semester

GENETICS

Sub.Code: JMZO41

At the end of the course the students will be able to

CO1: To exemplify the concept of genetics, the principles of inheritance and the role of genes determining characters.

II B.Sc Zoology /IV Semester

VERMITECHNOLOGY

Sub.Code: JSZO4B

At the end of the course the students will be able to

CO1: Understand the structure and anatomy of earthworms.

CO2: Know the vermiculture and vermicomposting methods for effective waste management.

III B.Sc Zoology /V Semester

ANIMAL PHYSIOLOGY

Sub.Code: GMZO51

At the end of the course the students will be able to

CO1: Carve an integral approach to chemistry related to the functional significance of the various organs and organ systems of animals.

III B.Sc Zoology /V Semester

ANIMAL BIOTECHNOLOGY

Sub.Code: GMZO52

At the end of the course the students will be able to

CO1: Understand the principles of Biotechnology.

CO2: Understand the Biotechnological equipment, its working mechanism and applications.

CO3: Explore the scope for students in various biotechnological institutes.

III B.Sc Zoology /V Semester

SERICULTURE

Sub.Code: GMZO5A

At the end of the course the students will be able to

CO1: Explore the scope for students adopting sericulture as a vocation after their graduation as it is rural based and welfare oriented agro based industry.

III B.Sc Zoology /V Semester

APICULTURE

Sub.Code: GMZO5D

At the end of the course the students will be able to

CO1: Examine the scope for self employment opportunities after their graduation account of the rural based and welfare oriented nature of this vocation.

III B.Sc Zoology /V Semester

PERSONALITY DEVELOPMENT

Sub.Code: GCSB5A

At the end of the course the students will be able to

CO1: Utilize communication skills, negotiation skills.

CO2: Develop behavioural tactisms, emotional intelligence and table manners.

III B.Sc Zoology /VI Semester

APPLIED BIOTECHNOLOGY

Sub.Code:

GMZO61

At the end of the course the students will be able to

CO1: Learn the utility and applications of Biotechnological instruments so as to study
its role for human welfare.

III B.Sc Zoology /VI Semester

IMMUNOLOGY AND MICROBIOLOGY

Sub.Code:

GMZO62

At the end of the course the students will be able to

CO1: Learn the structure and functions of Lymphoid organs.

CO2: Know the contagious diseases and its prevention methods.

CO3: Learn vaccination schedule for various pathological microbes.

III B.Sc Zoology /VI Semester

BIostatistics, COMPUTER APPLICATIONS AND BIOINFORMATICS

Sub.Code: GMZO63

At the end of the course the students will be able to

CO1: Know the basic biostatistical methods for students to do project.

CO2: Know the applications of computer for students.

CO3: Illustrate the applications of Bioinformatics and its practices in India.

III B.Sc Zoology /VI Semester

AQUACULTURE

Sub.Code: GMZO6A

At the end of the course the students will be able to

CO1: Illustrate Aquacultural potential and practices in India and augment food production from aquatic resources through Aquaculture.