



ALVA'S COLLEGE, MOODUBIDIRE.

POs & COs 2023 – 24



UNDER GRADUATE COURSES

BACHELOR OF COMMERCE (BCOM)

Program Outcome

- PO1: The students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law.
- PO2: Learners will gain knowledge of various disciplines of commerce, business, accounting, economics and finance, auditing and marketing.

Program Specific Outcome

- PSO1: Students also acquire skills to work as tax consultant, audit assistant and other financial supporting services.
- PSO2: Students have choices to pursue professional courses such as CA, M.COM, MBA, CMA, ICWA, CS, etc.
- PSO3: Students are able to play roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

Course Outcome

B.COM – General

- BCMCMCN106: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn principles and concepts of Accountancy, basic concepts of Partnership Accounting, company accounts etc.
- BCMCMCN107: Knowledge about evolution of management thoughts, planning and decision making, organization structure and different types of organization, recruitment process, importance of communication and Principles of coordination, Theories of Motivation.
- BCMCMCN108: Students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business,

practical exposure on calculation of measures of average, correlation and regression.

- BCMCMCN105: Students gain knowledge of Economic and business environment, Demand Analysis, Supply Analysis, and theories of economics, able to different costing systems in practical scenario.
- BCMCMC156: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn consignment system, installment system.
- BCMCMC157: Gather knowledge on banking and financial system in India, commercial banks and its products, familiarize banking system in India, Awareness about modern banking services like e-banking, m-banking and internet banking knowledge of the functioning of banks.
- BCMCMC158: Students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business, practical exposure on calculation of standard deviation and time series.
- BCMCMC155: Aiming to enable the students to get the Knowledge of public finance, deficit financing, public debt and government budget.
- BCMCMC217: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn basic concepts of Partnership Accounting.
- BCMCMC211: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost and systems of costing.
- BCMCMC209: It enables the students to understand the theories of foreign trade in a wide aspect, idea regarding Balance of trade and Payment.
- BCMCMC212: Students are able to know about planning, placement and training, significance of performance appraisal and methods of Compensation.
- BCMCMC213: Students will be well equipped with limbs of tax law, types of deductions, computation of taxable income, to file income tax returns etc.
- BCMCMC260: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.
- BCMCMC261: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost and systems of costing.
- BCMCMC259: It enables the students to understand the theories of foreign trade in a wide aspect, idea regarding Balance of trade and Payment.
- BCMCMC262: Students are able to know about planning, placement and training,

significance of performance appraisal and methods of Compensation.

- BCMCMC263: Students will be well equipped with limbs of tax law, types of deductions, computation of taxable income, to file income tax returns etc.
- BCMCMC314: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.
- BCMCMC315: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost and systems of costing.
- BCMCMC316: Students are able to know about planning, placement and training, significance of performance appraisal and methods of Compensation.
- BCMCMC313: Create an interest in investment; familiarize the concept of lease financing venture Capital and Mutual Fund.
- BCMCMC312: Gain idea about marketing and its functions, consumer behavior, product and its classifications, pricing policies.
- BCMCMC311: Knowledge of basic provisions regarding legal frame work governing the business.

BCMCMC364: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.

- BCMCMC365: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost and systems of costing.
- BCMCMC366: Students are able to know about planning, placement and training, significance of performance appraisal and methods of Compensation.
- BCMCMC361: Knowledge of basic provisions regarding legal frame work governing the Indian corporate.
- BCMCMC363: Create an interest in investment; familiarize the concept of lease financing venture Capital and Mutual Fund.
- BCMCMC367: To develop an understanding of basics of GST provisions and build ability to analyze it.
- BCMCMC362: To develop an understanding of audit concept.

B.COM – COMPUTER APPLICATION (VOCATIONAL)

- BCMCMCN106: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn principles and concepts of Accountancy, basic concepts of Partnership Accounting, company accounts etc.
- BCMCAV104: Awareness of basics of computer.

- BCMCAV105: On successful completion of this subject the students have the programming ability in C Language.
- BCMCMCN108: students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business, practical exposure on calculation of measures of average, correlation and regression.
- BCMCMC156: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn consignment system, installment system.
- BCMCMC158: Students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business, practical exposure on calculation of standard deviation and time series.
- BCMCAV154: To inculcate knowledge on Object-oriented programming concepts using C++.
- BCMCAV155: This course will prepare students to develop software in and for Linux environments.
- BCMCMC217: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn basic concepts of Partnership Accounting.
- BCMCMC209: It enables the students to understand the theories of foreign trade in a wide aspect, idea regarding Balance of trade and Payment.
- BCMCAV204: Knowledge of DTP.
- BCMCAV205: To inculcate knowledge on RDBMS concepts and Programming with Oracle.
- BCMCMC260: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.
- BCMCAV254: Get practical experience of web designing.
- BCMCMC259: It enables the students to understand the theories of foreign trade in a wide aspect, idea regarding Balance of trade and Payment.
- BCMCAV255: To inculcate knowledge on Java Programming concepts.
- BCMCMC314: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.
- BCMCMC313: Create an interest in investment; familiarize the concept of lease financing venture Capital and Mutual Fund.
- BCMCMC312: Gain idea about marketing and its functions, consumer behavior, product and its classifications, pricing policies.
- BCMCAV303: To enable students to create a software package using VB.

- BCMCMC311: Knowledge of basic provisions regarding legal frame work governing the business.
- BCMCMC364: On successful completion of this course the students are enabled with the Knowledge in the practical applications of accounting, learn royalty and branch accounting.
- BCMCMC361: Knowledge of basic provisions regarding legal frame work governing the Indian corporate.
- BCMCMC363: Create an interest in investment; familiarize the concept of lease financing venture Capital and Mutual Fund.
- BCMCMC362: To develop an understanding of audit concept.
- BCMCAV353: To introduce software project management and to describe its distinctive characteristics and to discuss project planning and the planning process and show how graphical schedule representations are used by project management and the risk management process.
- BCMEDV351: Enable students to understand project formulation, Entrepreneurship development and awareness on various Entrepreneurship Development Program, EDP schemes and knowledge of entrepreneurial skills and to make the students understand the approaches to attain the goals of the business.

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

Program Outcome

- PO1: To make students understand the basic principles of business management education.
- PO2: To impart the knowledge of functional areas of management like HR, finance and marketing.
- PO3: To acquire entrepreneurial skills and analytical skills.
- PO4: To build self-confidence and improve communication skills.
- PO5: To enhance the critical evaluation capability of the students.
- PO6: To make them employable through demonstration of ability to solve problems.
- PO7: To make students effectively coordinate and work in a team.
- PO8: To help students to make appropriate decision by analyzing data.
- PO9: To provide the platform for the overall development of the students.
- PO10: To inculcate professionalism in education through focused initiatives.

Program Specific Outcome

- PSO1: Developing specific managerial skills to own or manage business activities. Demonstrate effectively the best solution through application of knowledge supported by an evaluation of collected data.
- PSO2: Students have choices to pursue professional courses such as CA, M.COM, MBA, CMA, ICWA, CS, etc.
- PSO3: Students are able to play roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills.

Course Outcome

- BBABMC105: To get knowledge on accounting principles and practice.
- BBABMC107: Knowledge of functions of management, Principles of organization, Concept and importance of staffing, organizing & Motivation.
- BBABMC108: To understand different forms of business organizations and an evaluation.
- BBABMC 157: To get knowledge on accounting principles and practice.
- BBABMC 158: To acquire managerial communication skills especially business letter writing.
- BBABMC156: Familiarize the students with the factors like economic, legal, social, international influencing business environment and understand the entrepreneurial skills.
- BBABMC207: Students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business, practical exposure on calculation of measures of average, correlation and regression.
- BBABMC209: Knowledge of basic provisions regarding legal frame work governing the Indian corporate.
- BBABMC210: Gain idea about marketing and its functions, consumer behavior, product and its classifications, pricing policies.
- BBABMC211: Enabling the students to have a fair idea on set-off and carry forward of losses, capital gain among students, concept of income from other source, assessment of individual income, compute the total income and tax liability of individual assesses and firms, expertise to file return of income tax and to take up job in filing of tax.
- BBABMC258: Gather knowledge on banking and financial system in India, commercial banks and its products, familiarize banking system in India, Awareness about modern banking services like e-banking, m-banking and internet banking knowledge of the functioning of banks.
- BBABMC257: Students acquire new skills on the application of statistical tools and techniques in Business decision-making, Popular Quantitative Tools used in Business, practical exposure on calculation of measures of average, correlation and regression.

- BBABMC260: awareness about capital structure and theories of capital structure, cost of capital in wide aspects, dividend policies and various dividend models, working capital management.
- BBABMC309: Students understand their personality, perception and group dynamics.
BBABMC312: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost.
- BBMBMC361: Knowledge of basic provisions regarding legal frame work governing the Indian corporate.
- BBMBMC363: Familiarize the concept of cost accounting preparation of cost sheet, material control, concept of overhead cost.

BACHELOR OF BUSINESS HUMAN RESOURCE DEVELOPMENT

(BA HRD)

Program Outcome

- PO1: To make students understand the basic principles of human resource management education.
- PO2: To impart the knowledge of functional areas of Human Resource like Training and Development, Organizational development, Change Management, Business Ethics.
- PO3: To acquire the legal knowledge related to HR functions.
- PO4: To acquire the leadership skills to be an effective team leader.
- PO5: To acquire the capability to analyze the human behavior for the effective employee management.
- PO6: To build self-confidence and improve communication skills.
- PO7: To make them employable through demonstration of ability to solve problems.
- PO8: To help students to make appropriate decision.
- PO9: To provide the platform for the overall development of the students.
- PO10: To acquire the skill to be a corporate trainer.

Program Specific Outcome

- PSO1: Developing specific HR skills to manage the work force. Demonstrate effectively the best solution through application of knowledge supported by an evaluation of HR related knowledge.
- PSO2: Students have choices to pursue professional courses such as MBA, M. Com (HRD).
- PSO3: Students are able to play roles of HR Consultant and HR executives

Course Outcome

- HRDHRC105: To familiarize the students with the basic concepts, principles, methods and techniques of management. To provide computer literacy and skills.
- HRDHRC106: To use computers in Human Resource Development. To acquaint the use of computers in Research.
- HRDHRC107: To familiarize the students with changing economic, legal and social environment of the business. To provide basic knowledge of concepts of Business Economics.
- HRDHRC155: To understand the application of Economic Theory in Decision Making. To familiarize the student with the working of the different market. To provide an insight into the concept of marketing and its functions.
- HRDHRC156: To provide practical exposure. To promote creativity in students' approach to different marketing approach. To foster the growth of the students that would lead to personal effectiveness.
- HRDHRC108: To give an opportunity to the students to identify areas that have to be developed for becoming effective communication. To help the student to identify suitable forms of behavior.
- HRDHRC157: To understand the different facets of human behavior. To develop competence in the area of social relations.
- HRDHRC158: To introduce the skills which are necessary for an effective manager. To develop the skills of student to deal with various situations.
- HRDHRC205: To familiarize the students with the fundamentals of accounting and to create awareness among the students about the practical utility of accounting concepts. To understand the application of accounting in Human Resource Management. To understand the behavior of human at work.
- HRDHRC206: To develop the personal quality through studying the different theories of personality. To reduce frustration. To understand objectives and research in HRD.
- HRDHRC207: To learn methodology of research. To get acquainted with research and

development to identify areas of human development.

- HRDHRC208: To provide an introductory overview of Human Resource Management. To well acquaint with human resource management method to create high performance work system.
 - HRDHRC255: To teach basic concepts of financial management. To prepare the students to use financial management concepts in managing organization. To create awareness among the students on new HR initiatives.
- HRDHRC256: To familiarize students with industrial regulations and dispute settlements.
- HRDHRC257: To acquaint students with managing of an NGO. To explain the procedures for starting and managing an NGO.
- HRDHRC307: To provide linkages of business strategies to HR strategies. To cater to the needs of management student who wish to move from general HR approach to strategic approach.
- HRDHRC308: To provide in-depth knowledge into the issues related to trainee, the trainer organization in the context of training and learning process. To provide inputs on assessment and evaluation of training programme this is essential to determine training effectiveness.
- HRDHRC309: To encourage students for investments and administration in a company. To make the students understand the rules and principles which regulate our relation with state and other individuals.
- HRDHRC310: To acquaint the students with the recent techniques of corporate communication. To familiarize the students with the business correspondence to meet the challengers in the global market.
- HRDHRC311: Provide clarity and insights into concepts of business ethics and Corporate Governance. Inculcate high level of integrity and create moral and social awareness.
- HRDHRC357: To provide the students to Apply computer information system for the benefit of management and organization. To prepare end users to know about the latest development in the present information revolution
- HRDHRC358: To understand and analyze different trends in HRD that have influenced both Human Resource Development and Human Development. To help the student differentiate between trends in HRD and select and adopt them for resource development programmes.
- HRDHRC359: To understand the process of organization development in order to make it effective. To understand the role of change agents in managing organizational change effectively.
- HRDHRC360: To tell acquaint the students with the aspects of welfare legislation. To ensure an international look with respect to local sensitivities.
- HRDHRC361: Spread cross cultural sensitivities and awareness amongst managers and employees across the globe.

BACHELOR OF SCIENCE (B.SC)

Program Outcome

- PO1: Acquire the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, etc.
- PO2: Understood the basic concepts, fundamental principles and the scientific theories related to various scientific phenomena and their relevancy in the day-to-day life.
- PO3: Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.
- PO4: Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis.
- PO5: Students will demonstrate engagement in the Microbiology discipline through involvement in research or internship activities.
- PO6: Students are able to understand the synthesis of proteins, lipids, nucleic acids and carbohydrates and their role in metabolic pathways.
- PO7: Biotechnology teaches about biological sciences with engineering technologies that manipulate living organisms and biological systems to produce products that advance healthcare, medicine, agriculture, food, Pharmaceuticals and environment control.
- PO8: Students will demonstrate an understanding of major concepts in all disciplines of chemistry.
- PO9: Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society and other cultures outside the scientific community

Program Specific Outcome

- PSO1: Understand the structural organization and variation in chromosomes get self-employment in the fields as: mushroom Cultivation, organic manure preparation, the horticultural plant production, cultivation of crops in poly-house condition, plant tissue, culture laboratories etc.
- PSO2: Understand plant structures in the context of physiological functions of plants.
- PSO3: Understand lipid metabolism in plants.
- PSO4: Understand the morphological and structural organization of Cryptogams and

Phanerogams.

- PSO5: A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification.
- PSO6: This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology.
- PSO7: Students get to learn synthesis of drugs under pharmaceutical field for human needs purpose.
- PSO8: Able to understand and correlate clinical pathology of individuals in different disease conditions.
- PSO9: A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification.
- PS10: This course also includes sophomore level material covering immunology, virology and epidemiology and DNA technology.

Course Outcome

PHYSICS

- BSCPHC103: Relative motion. Inertial and non-inertial reference frames. Parameters defining the motion of mechanical systems and their degrees of freedom. Study of the interaction of forces between solids in mechanical systems. Centre of mass and inertia tensor of mechanical systems. Application of the vector theorems of mechanics and interpretation of their results. Newton's laws of motion and conservation principles. Introduction to analytical mechanics as a systematic tool for problem solving. Use of mechanical simulation software.
- BSCPHC203: To provide a good foundation in optics. To provide a knowledge of the behavior of light.
- BSCPHC253: To inspire interest for the knowledge of concepts in physical and geometrical physics. To gain knowledge about the electrical energies in order to learn motion of charges, have an understanding of the elastic properties of solids and lattice vibrations.
- BSCPHC308: To have an understanding of the properties of metals on the basis of the free and nearly-free electron gas models, have an understanding of the essence of density functional theory and its underlying building blocks. Have an understanding of the magnetic properties of condensed matter.
- BSCPHC305: Have an understanding of the optical properties of solids and the relation to their electronic properties. Demonstrate their understanding of the fundamental postulates and principles of special relativity and quantum mechanics. Apply the principles of quantum

mechanics to predict the results of measurements in simple systems such as a free particle, simple potential wells, and central potentials. Study of the structure of nucleus.

- BSCPHC357: Know the formation of nucleus and their binding energy. To motivate the students and analyze the energy released by the nucleus during the fission and fusion process. To acquire knowledge and apply it to various electronically instruments.
- BSCPHC358: To apply the development of the electronic instruments. To motivate the students to apply the principles of electronics in their day-to-day life.

CHEMISTRY

- BSCCHC103: Identification and isolation of components can be done.
- BSCCHC152: Acquiring the knowledge of synthesis of industrially important compounds through synthesis and enrich the utility of reagents available.
- BSCCHC203: To acquaint knowledge on Aromaticity, thermodynamics and coordination chemistry.
- BSCCHC251: Exploring the addition and substitution of compounds which are not available naturally and synthesis them.
- BSCCHC307: Through optical activity one can explain active and inactive substances and rotation of the substances.
- BSCCHC357: To synthesis drugs and polymers which are of daily important pesticides making use in agriculture to control pest and improve the rate of yield.

MATHEMATICS

- BSCMTC103: Students will learn how to write rigorous proofs of the theorems. Students will study some concepts come under group theory and learn to solve differential equations.
- BSCMTC203: Students will study some applications of congruences and Learn to differentiate function with more than one independent variables. Learn to evaluate multiple integrals, perform basic algebraic manipulation with complex numbers and to analyze arithmetic and geometric sequences and series to solve problems.
- BSCMTC308: To solve homogeneous second order equations and to write precise and accurate mathematical definitions of objects in ring theory.
- BSCMTC359: It is the mathematical structures used to model pair wise relations between

objects.

- BSCMTC307: It tells you how quickly you can get how close to the true solution.
- BSCMTC358: Combine solutions of PDE to satisfy given initial conditions by finding the coefficients of Fourier series.

BOTANY

- BSCBOC102: BSCBO151: Get self-employment in the fields as: mushroom Cultivation, organic manure preparation.
- BSCBOC352: Understanding the plant diversity and anatomical variations among plant groups.
- BSCBOC302: Understand the structural organization and variation in chromosomes
- BSCBOC305: Understand plant structures in the context of physiological functions of plants. Get self-employment in the fields as: mushroom Cultivation, organic manure preparation, the horticultural plant production, cultivation of crops in poly-house condition, plant tissue, culture laboratories etc.
- BSCBOC355: BSCBO302: BSCBOC301: Understand the morphological and structural organization of Cryptogams and Phanerogams.

ZOOLOGY

- BSCZOC102: To study the Salient features of Chordates with examples.
- BSCZOC202: To study the physiology of Digestion, Respiration, Excretion, Circulation, Nervous system etc. To study cells and organs of immune system. To study the biological importance of biomolecules.
- BSCZOC252: To study the histology of various organs, microtomy technique, behavior of various animals, Dairy, poultry, apiculture, Vermiculture, basic study of toxicology.
- BSCZOC304: To study the animal cell, various organelles, chromosomes, process of mitosis and meiosis, transcription and translation processes, basic techniques of Biotechnology.
- BSCZOC305: To study Mendelian principles, interaction of genes, linkage and crossing over, human genetics, blood grouping, evolution of horse and man, evidences for evolution.
- BSCZOC354: To study the human reproductive system, modern trends in reproduction,

gametogenesis, cleavage, fertilization, development of human foetus, frog and chick embryology, placenta.

- BSCZOC352: To study biotic and abiotic factors, habitats, population, community, ecosystem, food chain and food webs, zoogeography, distribution of animals, wildlife conservation.

MICROBIOLOGY

- BSCMBC102: To inculcate knowledge in cell divisions, functions, microbial physiology and genetics of microbes.
- BSCMBC252: BSCMBC304: To inculcate knowledge in relationship between human disease and microorganisms, pathogenicity, laboratory diagnosis and treatment methods.
- BSCMBC305: To inculcate knowledge in human immune response towards microorganisms.
- BSCMBC354: Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing, knowledge in role of microorganisms in eco system.
- BSCMBC355: Core bioinformatics courses may include molecular biology, probability, statistics, computing and informatics.

BIOCHEMISTRY

- BSCBCC102: This course will provide an insight of molecular structures of organic components present and required in day-to-day life.
- BSCBCC152: Students will understand the biological processes involving chemical methods under bioorganic field.
- BSCBCC202: knowledge of biochemical techniques.
- BSCBCC252: Graduates gain knowledge regarding isolating, purification, identification and functional aspects of various components present in organic molecules on practical techniques.
- BSCBCC304: Students gain the knowledge about enzymes, their kinetics, structure and the functions.
- BSCBCC305: It helps to understand the different methods of mass production of new traits of

existing organisms for human welfare.

- BSCBCC354: Student should have understood: Basic Structure and metabolism of biomolecules
- BSCBCC355: Student should have understood: Immunity, Antigen, Antibody, Cells of immune system and their functions and regulations. To inculcate knowledge in human immune response towards microorganisms.

BIOTECHNOLOGY

- BSCBTV102: Students understand: Basic Structure and metabolism of Biomolecules, Atomic theory, Valency, Atomic weight.
- BSCBTV152: To make the student to understand the concept of cell and their activities. Student will understand the concept of genes and their behavior.
- BSCBTV202: On successful completion of the subject the student should have understood the Role of microorganisms in the diversity.
- BSCBTV252: Acquire knowledge of Manipulation of genes, Transfer techniques, Expression systems and methods of selection.
- BSCBTV304: Gain knowledge of Crop development, Callus culture, Biotechnological applications of plants, Animal tissue culture, Animal products, production & improvement of them.
- BSCBTV305: BSCBTV354: Understand Ecosystem, energy flow and Uses. BSCBTV355: values of Biodiversity.

STATISTICS

- BSCSTC102: Students learn to design data collection plans and basic tools of descriptive statistics.
- BSCSTC151: Student learn to identify the relationship between two variables using scatter plot, Interpret a sample correlation.
- BSCSTC202: Students learn different types of continuous distribution with their properties and applications.
- BSCSTC351: Understand the concept of sampling distribution of a statistic and its properties,

difference between parameter and statistic.

- BSCSTC305: Students are able to describe the properties of unbiasedness. They are also learning to identify the null hypothesis, alternative hypothesis and test statistic.
- BSCSTC306: Students are able to explain the different meanings of the quality concept and its influence.
- BSCSTC351: Students learn to identify situations where one-way ANOVA is appropriate, identify the degrees of freedom associated with each sum of squares, Interpret an ANOVA table.
- BSCSTC356: Formulate and solve LPP, Assignment problems, Transportation problems, solve the zero-sum-two person -game.

B.SC. COMPUTER SCIENCE

Program Outcome

- PO1: Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem-solving skills.

Program Specific Outcome

- PSO1: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, application program, database, graphics and networking for efficient design of computer-based systems of varying complexity.

Course Outcome

- BSCCSC102: To inculcate knowledge on internal working of computers.
- BSCCSC202: To inculcate knowledge on Object-oriented programming concepts using C++. Enable the students to understand the abstract data types stack, queue, dequeue, and list. To be able to implement the ADTs stack, queue, and dequeue.
- BSCCSC211: It enables students to understand how computers work.
- BSCCSC305: It enables the students to identify the architecture of the microprocessor and how the microprocessor accepts the data from the memory for processing. It also helps to

identify the different types of flags and registers that are required for processing of data.

- BSCCSC306: The ability to understand the use of the database and its real-time application. It enables the students to identify the use of servers, normal forms, constraints on the table, database administrator.
- BSCBTV355: To inculcate knowledge of Programming logic concepts, which enables the students to create wide range of Applications and Applets using Java by understanding fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

B.SC HS (HOSPITALITY SCIENCE)

Program Outcome

- PO1: To interpret the fundamental principles of essential hospitality and tourism business functions.
- PO2: Recognize the importance and scope of skilled; friendly customer services both internal and external stakeholders.

Program Specific Outcome

- PSO1: Students are employed in hospitality and tourism sectors in various managerial and operation positions like restaurant management, recreation and health, catering, cruise ship hotel management, institutional and industrial catering, in food, confectionery, beverage production industries.

Course Outcome

- BSHS101: Course provides students with the opportunity to manufacture processed food on a large scale under simulated industry conditions in compliance with legal requirements.
- BSHS102: Able to apply basic beverage and operations knowledge.
- BSHS103: Able to explain characteristics of the hospitality industry. Able to explain the relationship between the hospitality and tourism industry.

- BSHSC104: Course provides the importance of food safety and sanitation as the basis for preventing food borne illness, students can identify the different processes that can be used to clean and sanitize equipment and utensils in a food establishment.
- BSHSC151: Course provides students with the opportunity to manufacture processed food on a large scale under simulated industry conditions in compliance with legal requirements.
- BSHSC152: Able to apply basic beverage and operations knowledge.
- BSHSC203: Able to explain characteristics of the hospitality industry. Able to explain the relationship between the hospitality and tourism industry.
- BSHSC153: Upon successful completion of the course the students know interrelationship between different divisions of the accommodation business.
- BSHSC154: Provides information regarding different food preservatives and techniques, nutrients, food adulteration and detection.
- BSHSC201: Course provides students with the opportunity to manufacture processed food on a large scale under simulated industry conditions in compliance with legal requirements.
- BSHSC202: Able to apply basic beverage and operations knowledge.
- BSHSC203: Able to explain characteristics of the hospitality industry. Able to explain the relationship between the hospitality and tourism industry.
- BSHSC204: Upon successful completion of the course the students know interrelationship between different divisions of the accommodation business.
- BSHSC206: Able to develop, implement and evaluate employee orientation, training and development programs.
- BSHSC251: Course provides students with the opportunity to manufacture processed food on a large scale under simulated industry conditions in compliance with legal requirements.
- BSHSC252: Able to apply basic beverage and operations knowledge.
- BSHSC254: Able to explain characteristics of the hospitality industry. Able to explain the relationship between the hospitality and tourism industry.
- BSHSC253: Upon successful completion of the course the students know. interrelationship between different divisions of the accommodation business.
- BSHSC255: Understanding of the principles and procedures of facilities management and also shows how facilities management should be performed to support the core business of client organizations.
- BSHSC256: Students can understand legal responsibilities of managers in the hospitality industry and also they can examine in detail the law of contracts, its principles and application to various business situations.

- BSHS302: Able to apply basic beverage and operations knowledge.
- BSHS303: Students able to apply analytical and quantitative skills to analyze and formulate business decisions in the tourism industry. Able to demonstrate knowledge of the basic theories and techniques in tourism destination development.
- BSHS304: Able to formulate a marketing plan including marketing objective, strategies, budgeting considerations and evaluation criteria. Able to prepare and deliver a sales presentation.
- BSHS305: Provides knowledge in hospitality management coupled with awareness of skills and attitudes which will prepare students for responsible leadership roles in the hospitality industry.
- BSHS306: Able to quantitative methods to business problem solving and also able to communication professionally as a business leader both orally and in writing.

B.SC FND (FOOD, NUTRITION & DIETICS)

Program Outcome

- PO1: Utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.
- PO2: Students will be able to prepare and deliver effective presentations of technical information to food science and nutrition professionals and to the general public.

Program Specific Outcome

- PSO1: Able to provide nutrition counseling and education to individuals, groups and communities throughout the lifespan using a variety of communication strategies.
- PSO2: Able to apply technical skills, knowledge of health behavior, clinical judgment and decision-making skills when assessing and evaluating the nutritional status of individuals and communities and their response to nutrition intervention.
- PSO3: Students can implement strategies for food access, procurement, preparation and safety for individuals, families and communities.
- PSO4: Apply food science knowledge to describe functions of ingredients in food.

Course Outcome

- FNFNC104: Students will gain the knowledge regarding nutritional classification of food, method and media of cooking, nutritive value and processing, storage of plant-based foods.
- FNFNC105: Understand the functions and sources of nutrients, role of nutrients in maintenance of good health.
- FNFNC106: Able to understand the physiological processes and functions as applicable to human nutrition.
- FNFNC155: Gain knowledge regarding nutritive value, classification, processing, preservation and storage of animal foods. Also, students understand the medicinal value of Indian spices and condiments.
- FNFNC157: Able to identify what foods are good sources for what nutrients. Students will be familiar with factors affecting for the absorption of nutrients.
- FNFNC204: Gain knowledge about food pyramid, vegetarian diet, menu planning and nutritional needs during infancy to adolescents.
- FNFNC205: Students able to understand principles of diet therapy, modification of normal diet for therapeutic purposes and the role of dietitian.
- FNFNC206: Gain the knowledge about the basic principles, fundamental concepts, modern analytical methods and exposing the students to the rapid development of every phase of chemistry.
- FNFNC207: Students gain the knowledge regarding MS Windows, MS Word, MS Excel, graphics software, internet basics, MS PowerPoint etc...
- FNFNC255: Understand the nutritional requirement of adults, nutritional needs during pregnancy and lactation, physiological changes and hormones involved during pregnancy and lactation, effects of ageing and life expectancy.
- FNFNC252: Students able to demonstrate counseling techniques to facilitate behavior change. Identify and describe the roles of others with whom the registered dietitian collaborates in the delivery of food and nutrition services.
- FNFNC310: Able to understand the important pathogens and spoilage microorganisms in foods, the most likely sources of these organisms, and the conditions under which they grow, the role of beneficial microorganisms in foods and their use in fermentation processes. Students able to use appropriate laboratory techniques to enumerate, isolate, and identify microorganisms in foods.
- FNFNC311: Understand the biological processes and systems as applicable to human nutrition. Students will understand the principles of biochemistry and also chemistry of major

nutrients.

- FNDFNC312: Students able to understand the causes, symptoms, risk factors and dietary management of different disease conditions like DM, gall bladder & pancreas, kidney and liver diseases.
- FNDFNC313: Able to locate and interpret government regulations regarding the manufacture and sale of food products. Gain knowledge about the properties and uses of various food packaging materials. Can identify the adulterants added to foods.
- FNDFNC364: Understand the basic principles of food preservation methods, including high temperature, drying and dehydration, high pressure, fermentation etc.
- FNDFNC362: Gain knowledge about aetiology, risk factors, clinical features and dietary management of cancer, HTN, CVD, genetic and mental disorders. Understand the techniques that can be used to monitor quality of raw ingredients and final products.
- FNDFNC358: Can conduct appropriate sensory evaluation tests to answer specific questions regarding food attributes or consumer preferences. Able to know the uses of food additives and how food is fortified with nutrients.
- FNDFNC359: Understand the basic principles of food preservation methods, including low temperature, heating, using chemicals and food irradiation.

BACHELOR OF COMPUTER APPLICATION (BCA)

Program Outcome

- PO1: Students will establish themselves as effective professionals by solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem-solving skills.
- PO2: Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.
- PO3: Students will develop ability to use the techniques, skills and modern IT tools necessary for IT practice.

Program Specific Outcome

- PSO1: The ability to get Jobs in MNC's as Software Developer, System Programmer, Network Analyst, Test Engineer, Technical Support Engineer, Network Administrator etc.
- PSO2: Public Services – KAS, IAS, IPS, UPSC, Central Services and Defense Services (Army, Navy and Air Force).
- PSO3: Banking sector and Government undertakings. Entrepreneurship – one can have own startups.
- PSO4: Universities as Case Workers and Data entry operators, High Schools.

Course Outcome

- BCACAC107: The ability to learn about the basics of excel, PowerPoint, access word document which are basic necessary of the computer information's and the basics of the computer subjects.
- BCACAC109: It is the basics of all the programming language. So it gives the programming outcomes for field.
- BCACAC108: The ability to understand theory of Computer Organization and Computer Design, to understand the functions of various hardware components, digital design and their building blocks, to understand Boolean algebraic expressions to digital logic. In depth understanding of how different hardware components are related and work in coordination, to understand computer behavior and input/output peripherals.
- BCACAC156: The ability to understand Overview of Networking, Network communication standards, Network Topologies, to understand LAN Cables and connectors used and Wireless

LANs, to understand LAN Protocols, Network Addressing, to understand WAN hardware and protocols and to understand Network Operating Systems.

- BCACAC157: This course enables the advance of the C programming language, which consist of advance concept
- BCACAC160: To inculcate knowledge on RDBMS concepts and Programming with Oracle.
- BCACAC208: BCACAC 209: This course provides the basic understanding of methods of how a microprocessor works its evolution and assembly level language.
- BCACAC 210: Learn to design and implementation of various basic and advanced data structures. To introduce various techniques for representation of the data in the real world and to develop application using data structures.
- BCACAC211: The ability to understand System Components, Operating System Services, Process Scheduling, CPU Scheduling, Scheduling Criteria, Scheduling Algorithms, to understand Process Synchronization, Deadlocks, Methods of Handling Deadlock, Memory Management, Virtual Memory, File System, to understand Linux, Linux commands.
- BCACAC212: This subject provides the basic knowledge regarding to how store and process large volume of data from multiple sources, apply different algorithms to obtain different patterns and hidden knowledge from vast database.
- BCACAC260: To inculcate knowledge on Graphics & Multimedia concepts and to apply the creativity in real-time using algorithms and animation techniques.
- BCACAC261: To inculcate knowledge on developing GUI interfaces programming skills using Visual Basic. On successful completion of the course the students should have understood NET Framework, VB.NET, and ASP.NET
- BCACAC402: BCACAC262: Enable the students to understand the purpose and history of the TCP/IP protocol suite. To Describe the Internet standards, process and the purpose of a Request for Comments (RFC) document.
- BCACAC263: On Successful Completion of this subject the students should have: – E-Commerce, E-Market, EDI, Business Strategies etc.,
- BCACAC311: This subject which helps the student to understand the basics about the project work and also helps them to create a document regarding to their final year project.
- BCACAC312: This course will prepare students to develop software in and for Linux environments. It includes basic operating system concepts, effective command line usage, shell programming, the C language, programming development tools, system programming, network programming (client server model and sockets), and GUI programming.
- BCACAC313: This course enables the students to enhance their interest in the developing the

web page or making a knowledgeable creativity

- BCACAC314: To inculcate knowledge of Programming logic concepts, which enables the students to create wide range of Applications and Applets using Java by understanding fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.
- BCACAC315: On successful completion of the course the students should have understood the trends and principles of distributed computing.

BACHELOR OF VISUAL ARTS (BVA)

Program Outcome

- PO1: The area of jurisdiction of Mangalore University has a proved distinguished tradition of visual art.
- PO2: Painting, Sculpture and Applied art are the different forms of expression to mould emotional and intellectual abilities at all levels of human development.
- PO3: Masters Course in Visual Art will be help full to enhance the art work and interpretation in distinct.
- PO4: It also builds a wider platform for synchronization of different art schools and forms in the distinct. The students of Visual art would prove to be an asset to the society and themselves.

Program Specific Outcome

- PSO1: Opportunity to work at all professional in the area like Graphic Designer, Web Designer, Animators, Art Directors, Illustrators – In Advertising Agency, Software & Many other Companies.
- PSO2: And also, the opportunities are available to become as Professional Sculptor / Painter / Commercial Artist, Art Teachers in Central Schools like in Navodaya, Kendriya Vidyalaya and can become a lecturer in Fine Arts Colleges, Art Director for small screens and big screens, Landscape designing, Mural Designers, Interior designers, Stage settings for theaters, Events designer, TV Shows designer, Textile designers and any kind of design-oriented work.

Course Outcome

- Is a fine art subject, deal with 2-dimensional part of visual arts by using various drawing mediums, paints like oil, acrylic, water colour etc. This field open for freelance artist (Commercial and contemporary artist) and all design field.
- In this department we deal with 3-dimensional part of visual arts by using various mediums like terracotta, stone, wood, metal, scrap metals etc. the fields we can use in architecture field, interior design, landscaping, monumental sculpture, set designing film and TV, backdrops for the events, exterior mural design as a freelance artist.
- In this specialization can learn advertising designs – Poster design, Paper Ad, Story Board, Book Cover, Packaging, Logo, Corporate designs and advertising campaign designs etc.

BACHELOR OF SOCIAL WORK (BSW)

Program Outcome

- PO1: Social work education provides the learners with knowledge & skills needed to prepare for a professional career as a social worker.
- PO2: Through the various programmes they are trained to acquire different types of skills like communication, Life skills, problem solving skills organizing programmes and resource mobilization etc.
- PO3: Programmes like field practicum and community camps motivates them to analyze the life situation of community people from different perspectives Study tours to different N G O s helps to get exposure of down trodden people with their problems.
- PO4: Awareness sessions help to update their knowledge which is required to face the challenges of the present society.

Program Specific Outcome

- PSO1: BSW Forum organizes various programmes throughout the year for the overall personality development of the students & mould them to the social work profession.
- PSO2: Learners are passionate about social justice & have a measurable impact on people in their community, thus they identify those who need help, assess the situations and develop plan to address their needs.

Course Outcome

- BSWBWC106: To understand the concept of social work, its evolution.
- BSWBWC107: To provide sociological perspectives and sociological insights for effective social work practice.
- BSWBWC108: To know how children develop and to understand the psychological significance of development.
- BSWBWC109: To discuss the relationship between food health and diseases.
- BSWBWC156: To understand different methods of social work.
- BSWBWC157: To understand causes and consequences of various social problems confronting Indian society.
- BSWBWC158: To develop ability to identify common problems of children.
- BSWBWC159: To develop home management skills.
- BSWBWC201: To understand the skills in working with Individuals.
- BSWBWC202: Develop an understanding of the characteristics and developmental stages of human life.
- BSWBWC203: To develop an understanding of the health situation in India.
- BSWBWC204: To provide an overview of education & different channels of education while focusing on the stream of Non formal education.
- BSWBWC251: To understand Group as an instrument of change.
- BSWBWC252: Develop an understanding of the concept of personality and factors affecting it.
- BSWBWC253: To develop sensitivity to common misconceptions, attitudes and practices towards Health problems.
- BSWBWC254: To critically analyze the Indian situations and examine the role of education.
- BSWBWC301: To understand concept of family and problems of family.
- BSWBWC302 To inculcate knowledge on the concept of community organization and community development, understand the role of NGO and SHG in community settings.
- BSWBWC303: To understand the concept of social welfare administration & to make effective social policy for the welfare of underprivileged sections.
- BSWBWC304: To develop an understanding of the systematic nature of poverty and unemployment and its magnitude in the Indian society.
- BSWBWC306: To understand different type of communication and its importance in social work.

- BSWBWC351: To provide knowledge about various Groups.
- BSWBWC352: To understand different approaches of community organization and community development programme.
- BSWBWC353: To inculcate knowledge on concepts and basic elements of social work research, to understand the research designs in social work research & the method of analysis.
- BSWBWC354: To understand concept of development and underdevelopment.
- BSWBWC355: To assess the weaker section in the community and the welfare measures provided to the weaker section.
- BSWBWC356: To critically view the various mass communication media in the context of Indian society and development.

BACHELOR OF ARTS (BA)

Program Outcome

- PO1: It provides wider-look on the traditional education which is certainly important to retain and take forward for the next generation, in the midst of technologically developing world.
- PO2: History, Civics, Sociology and Political Science are very necessary to be retained to understand and to teach the values of life, national integration and the constitutions of the society with which we are abided.
- PO3: Economics subject enables the learners to build up a professional career as economists, financial advisors, economics planners and policy makers.
- PO4: It prepares them to cope up with the stress and strain involved in the process of economic development.
- PO5: Department supports the education and training of students, teachers and research in economics.
- PO6: Political Science education provides learners with knowledge and skills needed to prepare for a professional career as a teacher, administrator, political scientists, lawyers etc.
- PO7: It also provides ground knowledge about the basics of political education (it gives political training). It trains about the politics and government at local, state, national and global levels.
- PO8: Sociology learning provides initial knowledge about society, social life and social

interactions.

- PO9: It prepares an individual to social life by inculcating values, morals and manners.
- P10: It gives knowledge about communities in which he interacts like rural urban and tribal communities.
- P11: This knowledge helps him to understand problems prospectus of these communities and various programmes for the development of it.
- P12: It exposes learners into different communities, caste groups and social institutions.
- P13: The Communication and Journalism Department is committed to providing undergraduate students with a quality education in the communication and journalism disciplines that is current, relevant, practical and personal.
- P14: The department's goals include enabling students who graduate to be able to compete successfully for positions at graduate schools nationwide.
- P15: Another departmental goal is that students who graduate in communication will be prepared for entry-level positions as professionals within communication-related fields.
- P16: Students who graduate in journalism will be prepared for entry-level positions as professionals within journalism and related fields.

Program Specific Outcome

- PSO1: History provides a wider knowledge to those aspirants who wanted to become a teacher or lecturer.
- PSO2: At present the aspirants of competitive examinations are opting history Subject more than any other.
- PSO3: The subject is very useful to become a journalist, Tourist-guide and to become an effect administrator.
- PSO4: Through organizing guest lectures, workshops, seminars, industrial visit and extension activities it enables students to learn economics, particularly its applications and foster the development of their own skills in economic reasoning and understanding.
- PSO5: Political Science organizes guest talk by scholars in the field of Political Science and encourages the students to think critically and gives information about politics and various aspects of public life.
- PSO6: Political Science department enables the students to participate in various programs conducted by Humanities department as well as forums of college and also avail the students to participate in various activities of the college and outside.
- PSO7: The study prepares an individual become useful member of, society and Nations at large.
- PSO8: It highlights various problems prevalent in society and measures to come out of it.

Learners are able to interact with different types of groups and communities.

- PSO9: It helps them to realize their problems and suggest measures control the problem.
- PS10: Students will be able to write a variety of mass media products, including news stories, press releases and advertising copy, following accepted journalistic standards, including Associated Press style.
- PS11: Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography and multimedia.
- PS12: To provide students with excellent and rigorous training in Psychology both theoretically and practically.
- PS13: To build deep expertise in the respective domain as well as a broad vision of the field.
- PS14: This is achieved through integrated Curricula that compasses of Teaching, Faculty guided Projects, Class room activities and Field works.
- PS15: To create a generation of excellent psychologists who can contribute to the society as a whole.

Course Outcome

KARNATIC MUSIC

- BASCMC103: Extremely essential for culturing.
- BASCMC153: Introduction to musical compositions in different talas and speeds.
- BASCMC203: Initiation to competitions and performances.
- BASCMC253: Higher level of training essential for grand musical performances.
- BASCMC305: Compositional forms for group performances in sabhas, temples, music festivals, etc.
- BASCMC355: Compositional forms for grand solo performances in sabhas, temples, music festivals, etc.

HISTORY

- BASHTC102: To understand the sources of history, historical writings on India, pre-history of India, Indus valley civilization, Vedic age, the age of Mahajanapadas and political history of ancient India.
- BASHTC152: Enable student to get knowledge on histories of Guptas, Chalukyas, Pallavas, Rajputs, Cholas and early Muslim invasions on Northern India.

- BASHTC202: To understand Political, Social, Economic history of medieval India, Socio-religious reform movements in India and Afghan-Mughal struggle for establishment of political supremacy over India.
- BASHTC252: To inculcate knowledge on political, social, cultural histories of Mughals in India, the role of Marathas power in India and administration of British Governor General of India.
- BASHTC304: The student will be able to understand Colonialism, British colonialism in India, its policies in India, its forms of dominations, early company rule in India, western liberalism and social reforms, 1857 revolt, its impact on company rule and post mutiny colonial Policy in India.
- BASHTC305: To understand the history of Europe, developments of Europe since French revolution, rise of nationalism, world wars and cold war.
- BASHTC355: The student will be able to understand various phases of Indian National Movement, role of various freedom fighters and legacy of freedom movement.
- BASHTC356: To understand the political history of Karnataka since 16th century, unification and National Movement in Karnataka.

ECONOMICS

- BASECC102: Students will be able to apply supply and demand analysis to examine the impact of government regulation and it also enable them to explain determinants of demand, responses of market and the benefits of exchange.
- BASECC152: It provides knowledge regarding the formulation of broad economic policies that maximize the level of national income, providing economic growth to achieve sustainability, full employment, price stability, external balance, increasing productivity in the long run.
- BASECC202: It attempts to impart an understanding of monetary economics. It describes carefully the basics of monetary economics like money, value of money, theories of money, banking and international financial institutions.
- BASECC252: Enable the students the pattern and nature of international trade and their contribution to economic development. It also enables learners to know the role of public authorities in raising revenue and its spending.
- BASECC304: Gives idea to the students about the systematic development of economic theories beginning from pre-modern and modern era.
- BASECC305: It makes the students to understand the aspect of development process in low-

income countries. Its focus is on improving the potential for the mass of population through health and education.

- BASECC355: It makes learners to understand the economic functioning and conditions of our country in the context of past, present and future.
- BASECC358: As environmental problems are the burning issues of present day, the study of environmental economics helps them to know the methods of controlling environment pollution and thereby to achieve sustainable development.

POLITICAL SCIENCE

- BASPSC102: To understand the concepts of Political Science and to have a knowledge about the significance of Political Science.
- BASPSC152: To understand the comparative analysis of various government or political system of the countries like USA, UK, China, and France. It helps them to critically analyses about the advantages and disadvantages of that political system with Indian political system.
- BASPSC202: The study of Indian Political System conveys the whole body of knowledge to the students about Indian Government and Politics. This encourages the students to think and analyze about the politics of our nation.
- BASPSC252: It enables the students to learn the ideas of great Political Thinkers of ancient as well as modern period. To understand the concept of Communitarianism, Multiculturalism, Liberalism etc. Multiculturalism is a situation in which all the different cultural or racial groups in a society have equal Rights and opportunities. It helps the students to understand the importance of equality of different cultures.
- BASPSC303: It helps to understand about Organization, mode, structure of Civil Service and also enables the students to have knowledge about Budget preparation and Execution.
- BASPSC304: It inculcates knowledge of various concepts of International Relations for example Collective Security, Balance of Power etc. It also helps to understand various process of International Relation. It studies about UNO which is the only one International Organization functioning for the maintenance of International Peace and Security.
- BASPSC353: It enables the students to understand about the various issues of International Relations like global terrorism, issues between India and different neighboring countries like Pakistan, Bangladesh and China. It also gives knowledge about various other aspects like New International /Economic Order and Studies about Global Organizations like WTO. It helps the students to analyze all those issues critically and to understand significance of World Peace.
- BASPSC354: It helps to understand about the scientific knowledge of Management and improves the decision-making ability of the students, develop leadership qualities and improve communication skills.

SOCIOLOGY

- BASSOC102: The students are able understand origin of concept sociology and its scientific nature and its relationship with other social sciences and its branches. The basic concepts like social structure, function, values and role and status. It also helps to understand social control agencies and their influences and culture, its elements and socialization processes.
- BASSOC152: It helps to understand various social institutions like marriage, family, kinship, religion and education and their important role in the society. These institution guides members from birth to death. It also helps to study social change and theories of social change.
- BASSOC202: It enlightens about Indian society both rural and urban, its features and different types problems and possible solutions. It also helps to understand aboriginals and their identical features and problems. It gives knowledge about urban infrastructure.
- BASSOC252: It enables students to understand various social problems that prevail in the Indian society. The major problems like family disorganization, crime, juvenile delinquency, child labor and problems of aged possible are discussed and possible solutions are suggested.
- BASSOC303: As sociology is science it is based on social facts. social research methods help to understand what is research, methods of collection of data and how data collection techniques are used in collection of data and social facts. It also guides regarding writing report. It helps to understand the concepts like social welfare and development and agencies of social welfare The student is able to understand various welfare programmes for both rural and urban India. It also helps understand welfare programme to weaker section of India.
- BASSOC304: It enables the learners to understand social thought and sociological theories. The founding fathers of sociology and their contribution for the development of sociology as an independent science.
- BASSOC353: It helps to know the concept sex and gender. The learner is able to understand status of women in Indian society and women and social institution and various feminist theories .it also enlighten important gender issues in India and policies related to women empowerment.

JOURNALISM

- BASJRC102: To increase students' knowledge and understanding of the mass communication process and the mass media industries. To help students become more skilled and knowledgeable consumers of media content. To develop students' understanding of the relationships among communication, mass communication, culture, and those who live in the culture.
- BASJRC152: Students will understand mass media as a system of interrelated forces, including historical foundations, technological advances, economic dynamics, regulatory constraints, and ethical concerns. and to know about pre and post independent press, growth and development

of Indian press, Kannada journalism. history of Indian cinema, TV and Radio.

- BASJRC252: To understand techniques of reporting in different media, news gathering techniques. Various types of reporting including crime, court, environment, development, political, sports, education, culture and entertainment, and to understand different types of interviews. and preparation and techniques of interview. To gain knowledge of types headlines writing. to know about different types of editing symbols used in news. and editing techniques.
- BASJRC303: To understand techniques of feature writing and different types features. To learn method of column writing, to study about Kannada and English column writers. Photography techniques. Photojournalism.
- BASJRC304: To understand the concept of advertising origin and development. different types of advertising, advertising design, advt. campaigns, laws and ethics of advertising, ASCI, consumer behavior.
- BASJRC355: To know the media laws including law of defamation, registration of book act, copy right cyber law, official secret act, working journalist act, principals of media management, Readership survey, functions and structures of news agency, press council press commission cyber law.
- BASJRC354: And nature and scope of public relation, types of public relation, code of ethics in PR, PR Process.

ENGLISH MAJOR

- BASENO103: Students will be able understand and appreciate the beginning of Romantic Movement in British Literature. Pupils recognize the contributions of William Wordsworth, S T Coleridge, William Blake etc.
- BASENO153: Learners understand and appreciate the contributions of younger generation of romantic poets like Keats and Shelley and they also understand how The Romantic Movement responded to the contemporary society.
- BASENO203: Students recognize how 19th century writers responded to contemporary social uprising and also understand various literary movements such as Oxford Movement, Art for Art's Sake etc.
- BASENO253: Students will be able to appreciate the great epic writer John Milton and get knowledge about Metaphysical Poetry and Puritan movement in England.
- BASENO305: Students get the taste of literature by reading omnipresent writer William Shakespeare who shaped English language and literature. They also learn the development of theatrical activities of the Elizabethan Period.
- BASENO306: Students will be able to appreciate modern writers like T S Eliot, W B Yeats

etc. They also incorporate the essence of modern literary trends.

- BASENO355: To learn the literary, societal, cultural, biographical and historical background of the greatest English writings penned by Indian Authors.
- BASENO356: To get a better comprehension of literary, societal, cultural, biographical and historical background of the greatest writings in American Literature.

PHYSICAL EDUCATION

- BASPEC101: This subject helps the students to understand the values and ethics of life and personality development.
- BASPEC151: This subject helps them to know about health aspects and maintain good health and fitness for higher achievements in sports.
- BASPEC201: The students can better understand the importance of physical education by studying the history.
- BASPEC251: The subject helps the students to understand the psychological aspects include in sports for good performance.
- BASPEC301: Study of this subject helps the students to know more about the human body which helps him for higher level of sports achievements and adopt training method.
- BASPEC302: BASPEC351: BASPEC352: The students are able to better understand the body movement in sports and the body mechanism for higher achievements.

PSYCHOLOGY

- BASPYC103: Students are sensitized towards the basic concepts of psychology
- BASPYC153: A continuation of the paper with an elaboration of the concepts, where students learn how psychology is used in their day to day living.
- BASPYC202: Students here are exposed to various developments during childhood; it helps them to build up a scientific bent of mind towards the psychological process taking place during childhood.
- BASPYC252: This paper encompasses the psychological changes from puberty to old age, it helps them to develop an empathetic feeling towards the people of various ages.

- BASPYC304: Students here get well versed in understanding the psycho social phenomenon that are taking place with the society, helps understand the psychological climate of the society.
- BASPYC305: Abnormal Psychology Paper here students gain an insight into various psychological problems, to Diagnose Mental health Disorders, and to figure out the bio psycho social etiologies.
- BASPYC354: Organizational Psychology paper helps students to understand the psychological dynamics in work place.
- BASPYC355: They learn to apply psychological principles in work place for enhancing productivity and understanding Consumer Psychology. Health Psychology helps how psychological dynamics play a role on health.

BHARATHANATYAM

- BASBRC103: Knowledge about mythological history, developments, history of different dance guru.
- BASBRC153: It includes history, developments, costumes, makeup, instruments used in dance program, dance guru learning style etc.
- BASBRC203: How to show different, relationships, God, goddess, navagraha, hastas.
- BASBRC253: Important of music in bharathanatyam, how it is used in choreography.
- BASBRC305: Introduction, difference aspect between abhinaya darpana and natya shastra.
- BASBRC355: Different types of nayika and nayaka, sub division, their nature, and how it is used on dance item (abhinaya).

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ALVA'S COLLEGE, MOODUBIDIRE.

POs & COs 2023 – 24

POST GRADUATE COURSES



M.SC IN STATISTICS

Program Outcome

- PO1: There is a huge opportunity for the students to join the companies especially for data mining and as a data analyst.
- PO2: They can also use their project improvisation in their research field.

Course Outcome

- STH401: The results of real analysis is very useful for the research purpose.
- STH402: It is applicable to do scientific studies and research in almost different fields. R-programming has brought revolutionary modifications in Big data analytics and other aspects of data analytics and data science.
- STH403: It is applicable in real life situation like weather-forecasting, sports, typing on smart devices, card games etc.
- STH404: It is mainly useful in NSSO, official statistics, business planning, medicine testing, quality testing etc.
- STH502: It is mainly used for decision making especially in medical field, business field etc.
- STH503: Stochastic Process is used in finance, trading, computer manufacturing and quality control.
- STS504: Weather forecasting is very useful for future prediction in time series.
- STS505: This essentially models reality where each situation, product or decision involves more than a single variable.
- STH401: The results of real analysis is very useful for the research purpose.
- STH402: It is applicable to do scientific studies and research in almost different fields. R-programming has brought revolutionary modifications in big data analytics and other aspects of data analytics and data science.
- STH403: It is applicable in real life situation like weather-forecasting, sports, typing on smart devices, card games etc.
- STH404: It is mainly useful in NSSO, official statistics, business planning, medicine testing, quality testing etc.
- STH502: It is mainly used for decision making especially in medical field, business field etc.
- STH503: Stochastic Process is used in finance, trading, computer manufacturing and quality control.
- STS504: Weather forecasting is very useful for future prediction in time series.
- STS505: This essentially models reality where each situation, product or decision involves more than a single variable.

M.SC IN ANALYTICAL CHEMISTRY

Program Outcome

- PO1: To Become Masters in Analytical Chemistry by studying course with different aspects of Chemistry.
- PO2: To acquire strong subject-matter expertise in Analysis aspects, Spectroscopic, Quality control and Quality assurance.
- PO3: To develop advanced knowledge in practical and research capabilities in their preparation for academic and research development focusing career.
- PO4: To endow the students for suitable careers in Corporate or Academic sector.
- PO5: To Make students cultivate academic knowledge to Research and Industries.
- PO6: To facilitate the students to apply Pharmaceutical, Chemical companies and Institution to illustrate the Skills.

Course Outcome

- CAH501: At the end of the course, the students must be able:
 1. To understand the basic need for acid base titration, complex formation and redox process.
 2. To help students understand Changes in pH of the solution with suitable indicators.
 3. To provide basic knowledge of graphs, Curves etc.,
 4. To enlighten the students on the principles of titration.
 5. To know the application of different titrations.
- CAH502: At the end of the course, the students must be able: The bio analytical technique helps to understand the sensors and membrane concept which are very essential in understanding the ions and enzymes activity. The radiochemical Analysis helps in understanding the Radio activity, Radiolysis and its waste management. The disintegration of radioactive substance activity.
- CAH503: At the completion of course, The students are able to understand the exact separation of the molecule in to simple compounds. The chromatographic separation helps in knowing the no of unknown component in the sample can be detected. The column chromatography helps to separate the sample along with the mass by LCMS or ESMS. All the component helps to know percentage assay and purity can be known.
- CAS504: At the completion of course, The students are able to understand the Analysis of compounds, metals by using thermal methods like DTA, DSC etc. The analysis can be study with differential scanning methods. The spectro analytical technique helps to characterize the compound by analytical method.
- CAS505: At the end of the course, the students must be able: The bio analytical technique helps to understand the sensors and membrane concept which are very essential in understanding the ions and enzymes activity. The radiochemical Analysis helps in understanding the Radio activity, Radiolysis and its waste management. The disintegration of radioactive substance activity.
- CAE506: At the completion of elective paper, the students are able to understand the chemical reaction in environment and the characterization of pharmaceutical drug by spectrophotometry studies. The green Chemistry explains the avoiding of hazardous chemicals and usage of environmentally friendly reactions and mild chemicals can be studied.

- CAP507: At the end of the course, the students must be able: To understand the practical knowledge with the theoretical knowledge. All 12 practical are planned to hand on experience of instruments and analysis. The experiments helps in the understand the core concepts.
- CAP508: At the end of the course, the students must be able: To understand the practical knowledge with the handling of instruments. All 10 practical are planned to hand on experience of instrumental analysis. The experiments helps in the theoretical aspects with practical concepts.
- CAP509: At the finish of the course, the students must be able: To understand the analysis of chemicals, metals, alloys and compound by volumetrically, gravimetrically and precipitation methods. It also helps in the understanding both qualitative and quantitative methods.
- CAH551: At the conclusion of course, Students will understand the how the structure and analysis of drugs, pharmaceutical compounds and assay studies of drug will be done. The biomedical and forensic analysis explains the toxicity and over dosage of drugs can be analyzed and can tested through biochemical reaction. To understand the percentage of additives, synthetic colors, adulterant in food can be analyzed.
- CAH552: At the end of the course, the students must be able: The instrumentation, methods of analysis by different optical method using different instrument with different principle. To determination of the structure, concentration of compound can be done.
- CAH553: At the completion of course, The students are able to understand the working principle of automatic system by automation analysis. The GLP practice is to expertise in the handling chemicals, storage, calibration and ISO standards.
- CAS554 At the end of the course, the students must be able: To understand the how to reduce the pollution in the environment. The usage of alternative fuel, advance materials to reduce pollution. The various methods can be implemented to control pollution.
- CAS555: At the completion of course, The students are able to understand the exact kinetics of drugs with different parameter. The drug dosage reaction can be studies. To understand the synthesis. Characterization of synthesized nanomaterials by instrumentation process. To understand the different methodologies to synthesis of nanomaterials with vapor deposition methods.
- CAS556: At the completion of course, The students are able to understand the exact separation of the molecule in to simple compounds by advance technology. The chromatographic separation helps in knowing the no of unknown component in the sample can be detected.
- CAP557: At the end of the course, the students must be able: To understand the determination of different biological samples by different instrumentations. The analysis can be done by potentiometer, nephelometer, flame photometer, spectrophotometer etc, with hands on process.
- CAP558: At the end of the course, the students must be able: To understand the determination of different biological samples by different instrumentations. The instrumental analysis by polymer determination, cholesterol, creatinine, uric acid, urea in biological samples.

MA BHARATHANATYAM

Program Outcome

- PO1: BHARATHANATYAM provides the learners with knowledge & skills needed to prepare for a professional career as a classical dancer.
- PO2: Through the various programmes they are trained to acquire different types of practice like basic of adavu, exercises, knowledge about music, thala, culture, Life skills, problem solving skills or choreography skills, etc.

- PO3: Programmes, different classical dance workshops and performances motivate them to improve their passion.
- PO4: Choreography sessions helps to update their knowledge which is required to face the challenges of the present society.

Program Specific Outcome

- PSO1: Programmes throughout the year for the overall personality development of the students & mould them as professional dancer.

Course Outcome

- Knowledge about traditional marga items like alaripu, tillana, swarajathi, and some composition of swathitirunal.
- Knowledge about the marga items like alaripu, tillana, swarajathi, and some composition of swathitirunal.
- Theory of natyashastra which include detail study of angikabhinaya, ancient theatre, vriddhis and dramatic convention.
- Important of music in bharathanatyam, how it is used in choreography compositions.
- It include learning the basic of choreography, how dance item used in group performance, it disciplines formations, use of hastas, abhinaya and over all creativity of the students.

M.SC IN APPLIED ZOOLOGY

Program Outcome

- PO1: Incorporate fundamental concepts of zoology in basic and applied research to meet global challenges.
- PO2: Equip students with knowledge, necessary skills and orient them towards research in the field of animal sciences.

Course Outcome

- ZOH401: After completion of the course the student would be able to apply the theoretical knowledge of taxonomy in field work. The student will be developing an insight about the evolutionary process. The student who completes the course would be developing skills in identification and classification of animals.
- ZOH402: Students would be able to gain knowledge of basic principles of carbohydrates, lipids, protein and nucleic acids and their role in basic metabolic pathways. Understanding the chemistry behind biological processes and the synthesis of biologically active molecules. Estimation of enzymes and other bio molecules help in the diagnosis of various diseases. Student would be able to clinically assess the laboratory indicators of physiologic conditions and diseases.

- ZOS403: Students will be able to acquire the skill of careful dissection. Acquire knowledge base and learning skills for perusing further educational and career goals. Students will be able to appreciate the importance of comparative anatomy biology to society.
- ZOS404: After completion of the course the student would be able to design experiments and understand the instrumentation. The students will be able to handle biotechnological and microbiological tools. Student will be able to work in industries based on biotechnology, pharmacology, microbiology etc.
- ZOH451: After completing the course, the student would be able to acquire the knowledge of various life supporting properties, functions and processes of animals or their parts. The student would be able to describe how different kinds of animals meet their needs. The students would learn to elucidate how physiology mediates interactions between organisms and their environments.
- ZOH452: Acquire broad knowledge of the field of environmental toxicology and chemistry including basic principles, target organ toxicity and the toxicity of a select group of chemical compounds. Students will develop the knowledge on simple in-vitro or in vivo toxicological tests and models to assess the toxic effects of chemicals on living organisms including human. Understanding the acute toxic effects of chemicals on the skin, the respiratory system, genotoxicity, mutagenicity, cell toxicity, organ toxicity, cancer development, reproduction, teratogens and the effects of hormone disrupting compounds. Basic knowledge of applications of animal models to study cancer. Understand epigenetics and somatic genetic changes in tumors. The course gives insight in DNA damages, DNA damaging agents and their mechanisms of action.
- ZOH453: Students will be familiar with the theoretical and practical aspects of culturing cells. Students acquire the necessary practical skills for the isolation of animal cells for in vitro studies, maintenance of animal cells in vitro and application of molecular techniques to in vitro situations. Students will be able to understand the significance of animal biotechnology for the betterment of society
- ZOS454: The student who completes the course will be able to appreciate the significance of adaptation in animals.
- ZOS455: Students will be able to understand, apply and use appropriate laboratory procedures for biological studies. Develop breadth of knowledge in the biological sciences. Employment in biology related disciplines.
- ZOE457: Knowledge of morphological characteristics for the identification of pathogenic parasites. Provides the insight of epidemiology, pathogenesis, transmission, control and treatment of various human and veterinary parasites. Understanding roles of parasites and infectious diseases on the ecology of their hosts, particularly the relationships among parasites, hosts and the environment.

- ZOH501: After completion of the course the student would be well grounded in the basics of molecular genetics. The student will be able to acquire skills including how to elicit comprehensive family history and construct a pedigree. The student will be able to describe genetics in medical practice including recognizing congenital anomalies and syndromes.
- ZOH502: Students will be able to describe the physiological function and metabolism of the micro and macronutrients. Provides insight for nutrient recommendations to improve the health of patients by instilling healthy eating habits. Animal nutrition focuses on the dietary needs of domestic, zoo and wild animals. Evaluation of chemical and nutritional value of feeds, feed supplements, grass and forage for commercial animals and pets. Knowledge of animal diet formulation to maximize growth, reproduction, health and performance.
- ZOH503: Students will be able to understand the mechanism of interaction of animals with their environment; the role of natural and sexual selection in the evolution of behaviour. Students can have career in research areas in ethology.
- ZOS504: Understand aquatic environment for different aquatic animals. Understand the fish diversity in India. Will be able to understand different culture practices of fishes.
- ZOS505: Students acquire the knowledge of principles of inheritance of qualitative and quantitative traits in animal populations and principles of estimation of breeding value. Student will have the knowledge of selection theory and breeding methods of domestic animals; principles of composition of animal breeding plans and conservation of animal breeding resources. Obtain the knowledge of different varieties of livestock breeds with the awareness of feeding and maintenance of dairy animals.
- ZOE507: Students will be able to compost in a limited space and will turn towards organic farming. Student will get the knowledge of biodiversity of local earthworms. Student will get the knowledge of bio-management of environmental waste through vermicomposting. Students with the knowledge of composting can generate employment.
- ZOH551: Student will be able to understand how the immune system works and acquire general knowledge about basis of infectious diseases and vaccination and transplantation; Compare & contrast innate v/s adaptive immunity, humoral and cell mediated immunity. Acquire practical skills in undertaking simple immunological experiments that mimic those undertaken in diagnostic laboratories and research laboratories. Students can have post-doctoral career in biomedical research, healthcare and as teaching faculty.
- ZOP552: Students would be able to learn on their own, reflect on their learning and take appropriate actions to improve it. Acquire the skills to communicate effectively and to present ideas clearly and logically in both the written and oral forms.
- ZOS553: Students would be able to understand biodiversity concept and management, mainly conservation of wild animals. Able to understand need of conserving the wild animals.

- ZOS554: Knowledge of applying statistics in the field of agriculture, business, industry, health sciences, scientific and other disciplines. Understanding the collection, presentation and analysis of scientific data. Understanding of basic methods of biological sequence analysis and able to perform simple sequence analysis using existing tools. The students would be able to describe the contents and properties of the most important bioinformatics databases, perform text and sequence-based searches and analysis.

M.COM (GENERAL)

Program Outcome

- PO1: To acquire strong subject-matter expertise in finance, financial instruments and markets.
- PO2: To develop advanced theoretical knowledge and research capabilities in their preparation for academic and research focused career.
- PO3: To Equip the students for seeking suitable careers in management and entrepreneurship.
- PO4: To study method of data collection and their interpretations.
- PO5: To facilitate the students to apply financial and Taxation knowledge in taking business decisions.

Course Outcome

- CMS401: At the end of the course, the students must be able:
 1. To understand the recent developments in Management.
 2. To help students understand the conceptual & strategic Framework of Management.
 3. To provide basic knowledge of modern management technique.
 4. To enlighten the students on the principles and practices of HR.
 5. To know the application of functions of Management in organization.
- CMS402: At the end of the course, the students would be able:
 1. To understand on micro and macroeconomic tool to solve the business problem.
 2. To get detailed idea on different types of market structure and their output and pricing strategies.
 3. To analyses the different types of the cost in conduct of the business.
 4. To understand on fluctuations in economic system.
- CMH404:
 1. To provide the basic knowledge of statistical techniques and Mathematics tools.
 2. To acquire knowledge on quantitative analysis of business data.
 3. To understand the methods, use statistical techniques for analysis of business data.
 4. To understand statistical theories and charts for taking business decision.
- CMH405: At the end of the course, the students would be able:

1. To get clear idea on application of science in management decision making along with its history.
 2. To accommodate students with industry application of basic operation research techniques.
 3. To develop the skill of finding alternative solution for managerial decisions.
 4. To understand recent developments in the field of operation research.
- CMH406: At the end of the course, the students would be able:
 1. To know about the accounting treatment at the time of Amalgamation, Absorption and External Reconstruction.
 2. To understand the various methods of valuation of Shares and Goodwill.
 3. To analyze the concept of Inflation Accounting.
 4. To understand recent developments in Accounting and Accounting Standards.
 - CMH502: At the end of the course, the students must be able:
 1. To have clear knowledge on foreign trade policy of India.
 2. To understand balance of payment situation of India and the measures to solve the is equilibrium.
 3. To get knowledge on various documents used in international trade.
 4. To understand intellectual properties and international organizations.
 - CMH503: At the end of the course, the students would be able:
 1. To tackle some ethical dilemmas, they might face in their professional life.
 2. To enhance the ability to provide pragmatic framework that they can use to identify, analyze, and resolve ethical issues in business decision making.
 3. To understand the role of ethics, corporate responsibility and sustainability in business activities and evaluate business practices in these fields.
 4. To examine the ethical implications of business practices from a stakeholder perspective.
 5. To enhance awareness and increase understanding of the nature of business ethics, cultural diversity in Indian as well as global business environment.
 - CMH504: At the end of the course, the students would be able:
 1. To understand the nature of E-Commerce business and its various dimensions.
 2. To Identify the various strategies and advanced concept of web-based commerce.
 3. To understand the importance and role of E-Commerce and M-Commerce business environment.
 4. To provide information about E-Commerce models.
 - CMS505: At the end of the course, the students would be able:
 1. To provide the basic knowledge of books of accounting.
 2. To understand the accounting concepts, conventions and GAAP.
 3. To understand the methods of preparation of financial statement in corporate.
 4. To Analyzing and Interpreting Financial Statements.
 5. To understand Contemporary Issues in Accounting.
 - CMS506: At the end of the course, the students would be able:
 1. To compute Intrinsic value of shares and bonds and to take Investment decisions.
 2. To apply the concept of Fundamental and Technical Analysis for Investment in Shares.
 3. To undertake research projects on Capital Market Behavior.
 4. To select the best suited Investment Avenue.
 - CMS511: At the end of the course, the students would be able:
 1. To provide the basic knowledge of Direct Taxes.
 2. To understand the taxation procedure and computation of tax of Individuals.
 3. To understand the methods of business taxation and its computation techniques.
 4. To analyze the concept of tax planning and investment avenues for tax planning.
 5. To understand recent developments in Indian taxation.

- CMS512: At the end of the course, the students would be able:
 1. To provide the basic knowledge of GST.
 2. To understand the indirect tax procedure and computation of CUSTOMS Duty.
 3. To understand the computation techniques of custom duty.
 4. To analyze the concept of GST procedures.
 5. To understand recent developments in Indian taxation.

M.COM (IBM)

Program Outcome

- PO1: Impart the students with higher level knowledge and understanding of contemporary trends in commerce and business finance.
- PO2: Equip the students to evaluate environmental factors that influence business operation with the conceptual requirements and skills on preparation and interpretation of financial statements.
- PO3: Prepare the students to apply Statistical methods and proficient use of tools for modeling and analysis of business data.
- PO4: Facilitate the students to apply capital budgeting techniques for investment decisions.
- PO5: Prepare students to appraise the structure and operations of banking system.

Course Outcome

- CIH401: At the end of the course, the students must be able:
 1. To know about practical application of Economics in Banking.
 2. To know about consumer behavior.
 3. To understand the pricing strategy in various market forms.
- CIH402: At the end of the course, the students must be able:
 1. To know the procedures involved in preparing final accounts of companies and remunerating directors of the company.
 2. To get clear idea of financial reporting of companies to be followed.
 3. To get depth knowledge of amalgamation, mergers, acquisition and take-overs.
 4. To understand the concept of basic financial decision-making techniques.
- CIS403: At the end of the course, the students must be able:
 1. To provide basic knowledge of marketing research.
 2. To provide the knowledge of research process.
 3. To understand the Research methodology.
 4. To understand the various tests and its applicability on research.
 5. To analyze the areas for further research.
- CIS404: At the end of the course, the students must be able:
 1. To analyze business Health.
 2. To Carry out five force model in MSME.
 3. To undertake research projects in Corporate Sector.
- CIS405: At the end of the course, the students would be able:
 1. To provide deeper knowledge of various principles and core concepts of TQM.

2. To know the principles of TQM and peculiarities in their implementation.
 3. To understand the role of TQM in Business Management.
 4. To understand the methods of Quality Control used in solving business problems.
 5. To understand the concept of Corporate Governance & CSR and their importance in business.
- CIH502: At the end of the course, the students would be able:
 1. To provide the basic knowledge of contemporary marketing concepts and its applicability.
 2. To understand the customer expectation, building customer relationship and retention strategies.
 3. To understand the marketing strategies, decisions and procedures and its Implementation.
 4. To know role of marketing in business management.
 5. To understand growing relevance of Marketing in India.
 - CIH503: At the end of the course, the students must be able:
 1. To provide the basic knowledge of Human Resource Management.
 2. To understand the utilization of motivated workforce.
 3. To understand the employee turnover & learning measure & control it.
 4. To analyze the concept of compensation Packages & the effect of corporate employee.
 5. To understand recent developments in HRM.
 - CIS505: At the end of the course, the students must be able:
 1. To understand the recent developments in rural banking.
 2. To understand the need for rural insurance.
 3. To provide basic knowledge of Self-Help Groups.
 4. To analyze the concepts of cooperatives and financial inclusion.
 5. To understand the use of micro finance in rural development.
 - CIS506: At the end of the course, the students would be able:
 1. To provide the basic knowledge of Direct & Indirect Taxes.
 2. To understand the taxation procedure and computation of tax of Individuals.
 3. To understand the methods of business taxation and its computation techniques.
 4. To analyze the concept of tax planning and investment avenues for tax planning.
 5. To understand recent developments in Indian taxation.

M.SC IN CHEMISTRY

Program Outcome

- PO1: To teach students to be aware of the safety of oneself and others in the laboratory and be committed to safe practices in daily life.
- PO2: To teach students to analyze data from experiments or from other sources.
- PO3: To provide students with some insight into future career prospect in the fields related to chemistry.
- PO4: To teach students to communicate the results of their work to chemists and non-chemists.
- PO5: To encourage students to develop curiosity and a spirit of enterprise.

Course Outcome

- CHH501: At the end of the course, the students must be able:
 1. To understand the interpretation of spectra through diagrams.
 2. To help students understand the energy profile of a reaction.
 3. To help students to understand diamagnetic and paramagnetic complexes.
- CHH502:
 1. To understand the reactions, mechanisms and synthetic uses of different reactions.
 2. To get detailed idea on photodissociation and photoreduction reactions and also about molecular or betel symmetry.
 3. To gain knowledge about nomenclature and reactions of different heterocycles.
- CHH503:
 1. To provide the basic knowledge of mechanism of surface reactions.
 2. To acquire knowledge on free electron theory to band theory of solids.
 3. To understand the types, features and physical properties of superconductors.
- CHS504: At the end of the course, the students would be able:
 1. To get clear idea on theories of drugs and drug designing.
 2. To get a clear idea about synthesis and mechanism of action of different drugs.
 3. To know about classification, isolation and structural elucidation of different natural products.
- CHE 506:
 1. At the completion of elective paper, the students are able to understand the chemical reaction in environment and the characterization of pharmaceutical drug by spectrophotometer studies.
 2. The green Chemistry explains the avoiding of hazardous chemicals and usage of environmentally friendly reactions and mild chemicals can be studied.
- CHP507: The students would be able:
 1. It helps students to understand quantitative analysis of alloys mixture of radicals.
 2. It gives clear idea about parameters of water.
- CHP508:
 1. It helps students to get clear idea about estimation of sugar, amino acid etc.
 2. It makes students to learn the preparation skills.
 3. It helps students to gain knowledge about computer for chemist.
- CHP509:

This enables students to understand the determination of Hammett constant and verification of Tafel equation.
- CHH551: At the end of the course, the students would be able:
 1. To know about the nitrogen fixation, photosynthesis.
 2. To understand about transport and storage of dioxygen.
 3. To analyze the metal toxicity and metal deficiency in biological system.
- CHH552:

1. To have clear knowledge on catalytic hydrogenation reactions and use of metals in reduction reactions.
 2. To understand the use of various reagents for oxidation and reduction.
 3. To get knowledge on planning of organic synthesis and functionality.
 4. To help students to know about protecting and deprotecting groups.
- CHH553:
 1. To get clear idea on characteristics of ionic liquids.
 2. To understand the applications of electrode process in voltammetry.
 3. To understand the kinetics of chemical reactions.
 - CHS554:
 1. To help the students to acquire information about bond energy and stability of organometallic compounds.
 2. To understand the preparative methods and nature of bonding in transition complexes.
 3. To help the students to gain knowledge about applications of organometallic compound such as synthesis of polymer and acetic acid.
 - CHS555:
 1. To help the students to get idea regarding terminologies of polymer.
 2. To know applications of commercial polymers such as nylon, polyethene, PVC etc.
 3. To understand the concept of polymer processing like casting, molding, foaming etc.
 - CHP557: The students would be able:
Get clear idea about preparation of hexamine and pentaamine cobalt chloride.
 - CHP558:
 1. It helps students to understand about acid catalyzed hydrolysis, saponification and decomposition of esters and salts.
 2. To understand the preparation of nylon, polystyrene by different techniques and also determination of molecular weight by viscometry and cryoscopy analysis.

MA JMC (JOURNALISM AND MASS COMMUNICATION)

Program Outcome

- PO1: Students will be able to make effective oral presentations on a variety of topics in public settings.
- PO2: Students will be able to apply basic and advanced human communication theories and models to academic and professional situations.
- PO3: Students will be able to make effective business and professional presentations to internal and external audiences.
- PO4: Students will be able to write a variety of mass media products, including news stories, press releases, and advertising copy, features, reviews, articles, magazine writing, radio presentation and other types of journalistic writings.

- PO5: Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia production including news bulletin, short films, documentaries and so on.
- PO6: Students will understand and be able to apply relevant case law involving journalism, the First Amendment, and other mass media issues.

Course Outcome

- JMH401: Prepares the students to understand and apply the theory in communication research.
- JMH402: Makes the students to do reporting for different media sectors and understand the format of reporting.
- JMH403: Students will learn to edit a newspaper or magazine and prepares them to do designing and edit the photos using updated software.
- JMS404: Students will be able to understand the history and current scenario of Indian Media.
- JMS405: Familiarize the students to get into Advertising field and make them to understand the designing and industrial aspects.
- JMS406: Students will be able to get updated about the corporate communication strategies.
- JMH451: Prepares the students to understand and apply the media laws in professional level.
- JMH452: Makes the students to write features for different media and understand the format of writing features.
- JMH453: It equips them to plunge in different sectors of photography and make them learn innovative techniques in photography.
- JMS454: Students will be able understand the history and current scenario in development communication models.
- JMS455: Prepares the students to get into magazine field and makes them to understand the designing and content patterns of various types magazines.
- JMS456: Students are prepared to get updated about the business communication.
- JME457: Non-journalism students will understand the basics of communication and they will be able to learn skills of communication. Students will be able to learn differentiate between journalistic writing and other types of writing. The students will be able to do freelancing in their concerned fields.
- JME458: JMH 501: students will train to write research proposals and dissertation
- JMH502: Students will be able to understand the financial aspects and management of media industry.
- JMS503: Students will learn to do corporate communication and public relation in different sectors.
- JMS504: Students will be able write for radio and do program production for radio
- JMS505: Prepares the students to understand and apply international strategies in communication.
- JMS 506: Students are prepared to write technical and science writing.
- JMS507: Students will understand the development and present scenario of Kannada Journalism where they are going to work.
- JME508: Students will get updated with the relationship between media and other institutions of the society. Other stream students will understand the strategies of advertising and public relation.
- JME509: JMH 551: students will be trained in different sectors of television production.

- JMH 552: The students will learn new communication technologies tactics and they will be able to understand the usage of social media.
- JMS554: Students will learn to work on Environmental issues and also, they will understand the policies and laws.
- JMS555: Students will be able understand how to deal with web, online journalism and blogging.
- JMS556: Prepares the students to produce documentaries, short films and feature films. They will understand the different genres of film.

MCOM (HRD)

Program Outcome

- PO1: Organizational Knowledge: To provide a study stream for competent young men and women with relevant HR knowledge, skill and attitude to occupy positions in Management and Administration in Business, Industry and government.
- PO2: Personality Development: To develop the right kind of values and attitudes to function effectively in Managerial and administrative position along with effective Communication Skills and Presentation which ultimately results to be employable for the global requirement.

Course Outcome

- CRH401: Students would be able to learn practically how to apply the knowledge in the field of HR.
- CRH402: The students would be able to clearly distinguish between management and HR functions. The various procedures followed and policies implemented in the organization from procurement to exit of the candidate.
- CRH403: The students would be able to understand the various accounting tools and apply it in corporate sector. Students aware about the current issues of accounting.
- CRS404: The students who complete this course have ability to understand importance of management in present scenario. Students aware about current corporate scenario. The students would be able to develop an understanding of basics employee training concepts.
- CRS406: Students who completes this course will be able to develop skills in the area of conducting training needs analysis, design and development of training materials, delivering training, and evaluation of training and development programmers.
- CRE451: Students would be able prepare CV. Students will learn how to solve problem, manage stress and manage time.
- CRH452: Students would familiarize with the concept to team and its importance. Students will learn different kind of behavior depends on various components of OB. The students would be able understand various cost methods and they might implement in the company to earn the maximum profit.
- CRH453 & CRH454: The students who complete this course have ability to understand. To analyze the market condition and implement actions. To understand to issues related to global marketing conditions.
- CRS455: To understand the legal aspects in terms of handling employees in the organization. Students will learn to design salary structure.

- CRS457: The students would be able to develop an understanding of the business environment and its effecting factors. Students can develop the awareness on changing dimensions of business environment.
- CRE501: The programmed will help the student develop leadership skill and know its importance. The students would be able to learn team work and various problems faced.
- CRH502: The students would be able to understand ethical issues in business. To analyze the importance of social responsibility of business.
- CRH503: The student will be able to bring changes and develop his personality.
- CRH504: The student will gain the knowledge about MHRD and its role, functioning. Various training methods and programs designed by government through ICT.
- CRS505: The students who completes this course will develop ability to establish a business. This course also helps them to do their further studies like PhD etc. After completing knowledge management subject's student would able to Select and use of suitable knowledge representation methods and tools, access to stored knowledge through the search and retrieval techniques and able to establish domains of knowledge system in the working scenario. Students will able to identify technologies that are most useful for capturing /acquiring, organizing, distributing and sharing knowledge with in enterprise/working scenario.
- CRS507 & CRH551: The students who complete this course will have an ability to understand importance of performance analysis and act upon it. To understand the critical issues related to hiring and retention of talented employees.
- CRH552: Students would be equipped with the knowledge of various cross-cultural issues and how to manage them. Students will be able to understand difference between global and domestic HRM.
- CRH553: Students will be able to design research methodology. Provide suggestions for the problem organization is facing.
- CRS554: Students would be able to develop a business plan. Students will be aware of various opportunities available for having startups.
- CRS555: After studying this subject student should be able to: Identify and describe concepts of employee engagement and empowerment. Describe the changes in systems of employee relations. students will able to identify and develop strategies for achieving employee engagement in the working scenario.

M.SC IN MATHEMATICS

Program Outcome

- PO1: Impart quality education to meet the needs of profession and society and achieve excellence in teaching-learning and research.
- PO2: Facilitate effective interactions among faculty and students, and foster networking with alumni, industries, institutions and other stake-holders.
- PO3: Practice and promote high standards of professional ethics, transparency and accountability.

Course Outcome

- MTH401, MTH452: The student would be able to understand various algebraic structures and their modern development.

- MTS506 & MTS557 & MTH402, MTS455: The student would be able to understand concepts of transformations.
- MTH403 & MTH453: The students would have basic knowledge of analysis.
- MTS404 & MTS505: The students would have basic knowledge of problem solving.
- MTH502 & MTH552: The students would have knowledge of analysis in the complex plane.
- MTS456, MTE501 & MTS554: The students would have basic knowledge of problem solving.
- MTH454 & MTS555: The student would have the knowledge of arbitrary spaces.
- MTH503: The student would have the knowledge of advancement in the Real line theory.
- MTH504: The student would have the knowledge of geometrical idea of the Real line.
- MTH553: The student would have advance ideas in analysis.
- MTS405, MTE451 & MTS556: The student would have the knowledge of applications of integers.
- MTS507: The student would have the knowledge of elementary concepts of graph theory.
- MTS508: The student would have the knowledge of algebraic structures on arbitrary sets.

M.SC IN PHYSICS

Program Outcome

- PO1: Impart high quality education through development of state-of-the-Art curriculum in the field of Physics.
- PO2: Provide quality education and bring advanced knowledge among students.
- PO3: Upgrade the knowledge of practical Physics.
- PO4: Motivate the students towards research fields along with academic curricula.
- PO5: Support the students to become adaptable, lifelong learners in an ever-changing scenario of new skills and competencies.

Course Outcome

- PHH401, PHH451: Understanding the application of Vector analysis and curvilinear coordinates and Generalized coordinates. Understanding the application of Matrices and complex variables and Complex variables and integral transform. The usage of Partial differential equations and

Boundary value problems solutions. Theory and application of Tensor analysis, Fourier series, Groups and Green's Functions and Integral Equations.

- PHH402, PHH452: Understanding General formulation of quantum mechanics, Fundamental postulates of QM, Stationary states and eigen value problems and Angular momentum, parity and scattering. Understanding theory and applications of Matrix formalism of quantum mechanics, Quantum dynamics. Knowledge to apply Approximation methods. In-depth knowledge on Relativistic quantum mechanics and elements of second quantization and Transition from particle to field theory.
- PHH403: Gaining knowledge on System of Particles. Gaining knowledge on Hamiltonian formalism. Gaining knowledge on Central Forces, Scattering in Central Force Field. Gaining knowledge on Rigid body dynamics and small oscillations.
- PHH404: Understanding theory and applications of Electrostatics and Magneto statics. Understanding theory and applications of Electromagnetic waves. Understanding theory and applications of Electromagnetic Radiation. Understanding theory and applications of Plasma Physics.
- PHH453: Understanding General properties of the nucleus and nuclear decay. Understanding Interaction of radiations and radiation detectors. Understanding Ionizing radiations and applications. Understanding Nuclear reactions and Reactor physics.
- PHH454: To understand theory and applications of Elementary Crystallography and X-ray diffraction Elementary Crystallography. To understand theory and applications of Free Electron Theory and Band Theory of Solids. To understand theory and applications of Phasors and devices. To understand theory and applications of Operational amplifiers and Digital electronics.
- PHE455: Gaining knowledge on Renewable energy resources. Understanding the Basics of the Wind energy. In-depth information about Biomass energy and biogas technology.
- PHH501: Understanding Spectra of single and multi-electron atoms. Understanding X-ray Spectra and Resonance spectroscopy. Understanding Microwave spectra, infra-red spectra and Raman spectroscopy. Understanding Electronic spectroscopy: Electronic spectra of diatomic molecules.
- PH502: Understanding theory and uses of Thermodynamics. Understanding theory and uses of Classical statistics. Understanding theory and uses of Quantum statistics. Understanding theory and uses of Brownian motion.
- PHS503, PHS506, PHS553 & PHS556: In-depth knowledge on Crystallography, elastic properties and thermal properties, electric and Ferroelectric properties of solids and optical properties of Solids. Understanding Band theory of solids, Transport properties, Semiconductors its types etc. and Optoelectronic devices. Theory and applications of Ferromagnetism, Anti-ferro and ferrimagnetism's, paramagnetic relaxation and Magnetic resonance, Nuclear magnetic resonance (NMR) and Nanomaterials and nanostructures. Study on Crystal defects, thin films, Superconductivity and Polymers & liquid crystals.
- PHS505, PHS508, PHS555 & PHS558: Understanding Interaction of particulate radiations and radiation dosimetry, nuclear detectors, nuclear electronics, Particle accelerators and Applications. Gaining knowledge on nuclear spectroscopy, Heavy ion physics, Review of deuteron problem and nuclear forces and Scattering. Imparting knowledge on nuclear models, nuclear shell model, nuclear reactions and Perturbation approach. Gaining knowledge on Reactor physics, Neutron physics, Particle physics, strange particles and weak interactions.
- PHE509: Understanding Radiation Sources, Gamma chamber, Particle Accelerators. Understanding Radiation biophysics Basic aspects of cell biology and physiology. Understanding Radiation hazard, evaluation, control and radiation protection. Understanding Radiation protection standards.
- PHH551: Understanding Lasers and non-linear optics. Understanding Holography and Non-linear optics. Understanding Vacuum techniques. Understanding Cryogenic techniques.

- PHH552: Gaining knowledge on Astrophysics, Asteroids, Comets and Meteorites. Gaining knowledge on Energy generation in stars. Contents of milky way galaxy. Understanding Theory of relativity and its application. Understanding General relativity concepts.
- PHP405, PHP406, PHP456, PHP457: Gaining practical knowledge in connection to physics theories.
- PHP559: Students will acquire the ability to make links across different areas of knowledge and to generate, develop and evaluate ideas and information so as to apply these skills to the project task. In addition to this, the students will acquire collaborative skills through working in a team to achieve common goals.
- PHP512, PHP515: Gaining practical knowledge in connection to Nuclear Physics theories.
- PHP510 & PHP513: Gaining practical knowledge in connection to Condensed matter Physics theories.

M.SC IN ORGANIC CHEMISTRY

Program Outcome

- PO1: To extend students' comprehension of key chemical concepts and so provide them with an in-depth understanding of synthetic organic chemistry.
- PO2: To provide students with the ability to plan and carry out experiments independently and assess the significance of outcomes.
- PO3: To develop in students the ability to adapt and apply methodology to the solution of unfamiliar types of problems in synthetic organic chemistry.
- PO4: To instill a critical awareness of advances at the forefront of synthetic organic chemistry.
- PO5: To prepare students effectively for professional employment or doctoral studies in the area of synthetic organic chemistry.

Course Outcome

- OCH401: Students will focus on properties of ionic substances, covalent bonds and molecular orbital theory. It also describes about halogen and Nobel gas chemistry and titrimetric methods.
- OCH402: Students will be able to understand the basic concepts of organic chemistry, helps to learn bonding, aromaticity and to evaluate the rate of reaction, reaction intermediates and describes about basic type of reactions known as Aliphatic Nucleophilic Substitution Reactions.

- OCH403: Student's emphasis on introduction to modern surface science methods and their applications. They understand chemical and physical phenomenon in particular to surfaces and interfaces, catalytic processes, rate of change of chemical reactions with respect to time, Activation energy and activated Complexes, Electrochemistry, Corrosion and any other electrochemical phenomenon.
- OCS404: Students attain basics of theoretical and analytical techniques in purification of chemical molecules. It gives complete knowledge of instrumentation in inorganic and chromatographic field. This paper focuses on recent advances in the industries. It enables the students to achieve quality control skill.
- OCS405: Students are able to understand different types of air and water pollutants, pollution factors and their effects on environment. They will learn the purification, prevention, waste management and control techniques. This will help them to apply their knowledge in daily life to prevent pollution.
- OCE406: Students will gain basic knowledge and technical skills of X-ray diffraction technique, Infrared & Raman spectroscopy, Vibration-rotational and other low frequency techniques.
- OCP407: Students will be able to get clear idea about quantitative estimations and analysis of inorganic ores and Calorimetric determination of transition metal ions.
- OCP408: Students study the practical applications of theoretical concepts. They learn about the synthesis of some important molecules through the application of theoretical principles. The molecules further will be having applications in various fields.
- OCP409: Students acquire the knowledge in the Determination of various parameters. Instrumentation skills in the Potentiometry and Conductometric titrations.
- OCH451: The course focuses on symmetry of elements and emphasizes on chemistry of boranes, co-ordination compounds and f-block elements.
- OCH452: Students will learn very important types of organic reactions called Aliphatic Electrophilic, Aromatic Electrophilic and Nucleophilic Substitution Reactions. This is the advance study of organic chemistry, they study one more class of organic reactions called free radical reactions and elimination reactions, heat mediated reactions called pyrolytic reactions, addition reactions.
- OC453H: Student will acquire knowledge of Thermodynamics, Quantum chemistry and applies it as a tool to understand atomic and molecular structure and properties as well as chemical reactivity.
- OCS454: Students understand the basic principles, theory and instrumentation of spectroscopy viz, UV/Electronic Spectroscopy, IR Spectroscopy, Nuclear Magnetic Resonance Spectroscopy and Mass Spectrometry and able to solve structural problems.
- OCS455: Basic concepts, structures and functioning of bio molecules will be understood by the student along with their chemistry background.
- OCE456: Non-Chemistry students will understand the basics of environmental concepts, pollution prevention and control methods. They will learn the corrosions of different materials and prevention techniques. Students will be able to study the basic, classification, properties and synthesis of polymers.

- OCP457: Students will learn the practical knowledge of Qualitative analysis of mixture of Inorganic salts.
- OCP458: Students will be familiarizing the nature of organic substances of different functional group. To learn the separation of bi mixtures. To familiarize the systematic organic substances analysis. To know the preparation involving nitration and bromination. To familiarize the test involving identification of special elements. To learn the confirmatory test for various functional groups. To learn the preparations of derivative. To understand the techniques involving drying and recrystallization by various method. To expertise the various techniques of preparation and analysis of organic substances.
- OCP459: Students will gain the practical knowledge of determination of various factors in kinetics, phase diagram and adsorption phenomenon.
- OCH501: Students deal with organic name reactions, rearrangements and their mechanisms, understand the synthetic applications; by learning nucleophilic, electrophilic and free radical rearrangements, they will be able to deduce the reaction mechanism, Synthetic Design and Planning of Organic Synthesis.
- OCH502: Students will study about the reagents of Organometallic, Silicon, Boron and their applications in organic synthesis. Students will gain an understanding the principles of spectroscopy and able to solve structural problems, particularly Organic Molecules. Hence it will enhance their knowledge in Organic Spectroscopy.
- OCH503: Students will study about introduction and concepts of heterocyclic chemistry, important heterocyclic molecules, synthesis and reactions of those molecules which are used as drugs.
- OCS504: Students acquire the concepts of Photochemistry, orbital theories. Introduction, classification of Pericyclic reactions, electrocyclic, cycloaddition and sigma tropic reactions. The course aims to provide a sound understanding of the fundamentals of the chemistry of carbohydrates, Peptides & Proteins, Nucleic acids, non-steroidal hormones, Vitamins and antibiotics.
- OCS505 & OCE506: Non-Chemistry students will learn the spectroscopic techniques viz. UV, IR, NMS and Mass Spectrometry, understand the basics of environmental concepts, water pollution prevention and control methods, Introduction, theoretical concepts and instrumentation in the Green Chemistry.
- OCP507: This practical paper deals with quantitative determination of compounds of different functional groups. Students will get the knowledge of volumetric titration and to estimate the amount of compound present in the solution.
- OCP508: Students concentrate on the Isolation and Characterization of natural products, Determination and purification techniques viz. TLC, Paper and column.
- OCP509: In the practical paper students will study about separation and qualitative analysis of mixture of three individual compounds. They also will do the preparation of suitable derivative for each component, identification of derivative by M.P, TLC and spectral techniques.
- OCH551: The student shall gain a sound understanding of the basics of organic synthesis, methodology development and multi-step synthesis. After the completion of the course, the students would learn the application of retrosynthetic analysis in organic synthesis. The special emphasis on bio-active natural products synthesis gives them an idea of planning, design, understanding the mechanistic implications and execution of synthetic organic chemistry which

is pivotal in organic chemistry. After the completion of the course the students would be able to theoretically devise strategies for the synthesis of simple to complex organic molecules.

- OCH552: The students would learn about the importance of theories related to drug designing and molecular modeling, drug-receptor interactions etc. This is intended to help the students to understand the three dimensionality of organic and biomolecules and their significance. They would also learn medicinally important class of drugs.
- OCH553: Students acquire knowledge of synthesis and structural elucidation of some important alkaloids, terpenoids, and steroids & hormones. Students will learn the regulations of human physiological functions and its importance. They also study structural elucidation of important molecules.
- OCS554: Students gain skills in the Synthetic polymers with Classification and Nomenclature. Methods of polymerization, Mechanism and Stereochemistry. They acquire basic knowledge of Dyes with Introduction, modern theories of color and chemical constitution. Classification of dyes, methods of applying dyes. Also exposed the theories and concepts of insecticides, fungicides and herbicides.
- OCS555: The student shall gain skill of separation and purification techniques the most important chromatographic technique, which is an essential tool in quality control process in the pharmaceutical industries. Students are exposed to polymer supported reagents in organic synthesis and multicomponent reactions with few named reactions involved in it. And reaction strategies like asymmetric synthesis which is relevant to industrial applications. Petrochemicals and manufacture of different petrochemical products and their applications, different stages involved in petrochemical synthesis.
- OCS556 & OCH557: Students perform multi step organic synthesis. Preparation of bioactive molecules in the practical leads to the development of knowledge and attain skills in the Synthetic organic chemistry.
- OCH558: Students get practical knowledge in separation of components from mixture of organic compounds by fractional crystallization, fractional distillation, adsorption, Paper, TLC and column chromatography. The purification and characterization of organic compounds. Acquire strong spectroscopic skills by elucidation of structure of organic compounds using UV, IR, NMR and Mass spectra.
- OCH559: Student will spend 6-8 weeks undertaking a project which uses and enhances many of the skills learnt on the course. The majority of students will undertake their project at the industries, but the opportunity will exist for students to do their project at other relevant institutions. Following the conclusion of the work, they will complete a report on the project as well as give a presentation of their finding and defend their work during the viva examination.

M.SC FSN (FOOD SCIENCE AND NUTRITION)

Program Outcome

- PO1: Creativity in the disciplines have practical benefits.

- PO2: Communicate effectively with others in small and large group situations.
- PO3: Prepare and deliver effective presentations of technical information to food science and nutrition professions and to the general public.
- PO4: Facilitate and participate effectively in a team. Apply your professions code of ethics in your work.
- PO5: Demonstrate effective program planning and evaluation.

Course Outcome

- FNH401: Students are able to identify the specific culinary trends as of culture and origin; to apply the knowledge of culinary terminology to describe food products. This also helps the students to apply marketing and advertising principles to describe consumers' behavior in food selection.
- FNH402: With the knowledge of principles, nutrition holds an authority in various streams eg. formulation, processing, preservation and prescription of foods as per the needs.
- FNH403: Students will be much more aware of their body system and the effect of food on body.
- FNS405: Students would understand the food storage conditions and growth of microbial contaminants and to arrest the microbial activity, water activity control, fermentation and aseptic processing.
- FNH451: The accessory nutrients i.e vitamins and minerals will be given importance in energy releasing and functional process as equal to that of macronutrients which are generally energy based.
- FNH452, FNH453: The nutrient intake recommendations across the lifespan will be given prime place to combat the deficiency disorders and to promote successful aging process.
- FNH454: Students get the updates in the techniques involved in analysis of overall quality attributes of the finished products.
- FNH501: Students tend to utilize standard weights and scaling or measurements techniques and principles of meal planning in food. It helps in the modification of recipes for specific purpose such as nutrient enhancement, quality improvement and for substitution. Design and critic evidence-based nutrition interventions for the prevention and control of occurring diseases.
- FNH551, FNH502: Students reaching the community will build up their confidence in overcoming the practical situations of population.
- FNH504: The knowledge of principles of hygiene and sanitation; the nutrient loss during food preparation operations will enhance the nutrient quality of foods.
- FNS456: Students understands to locate and interpret government regulations regarding the manufacture and sale of the food products. Also understands the structure and components of food systems and analysis of their relationships. Implementation of public policies and food standards and laws.
- FNH506: Students are benefited with the knowledge of using functional foods or nutrient supplements not only for curing disease but also their application in cosmetics.
- FNH552: Students are made aware of the possible techniques which makes the seasonal foods available all throughout the year. Understand the different storage conditions to prevent the microbial spoilage. Basic principles of maintaining the foods in various forms (liquid to semisolid state).

- FNH554: Knowledge of nutrition in sports imparts in self-assessment in fitness and endurance performance. Pre and post events- carbohydrate loading, electrolyte balance for sports events.

MA IN ECONOMICS

Program Outcome

- PO1: The MA in economics will give a comprehensive idea on economics from theoretical and practical point of view.
- PO2: The programmed highlights the fundamentals of economic theories and it tries to answer different issues related to economy.

Course Outcome

- EC401 & EC451: Use of theories into the practical application. Expected to solve various problems in economic activity.
- EC402 & EC452: Get tools to solve the various macro-economic problem and helps to stabilize the economy as a whole.
- EC403 & EC404: Students are expected to relate the theoretical understanding into the practical analysis.
- EC404: Its mathematical simplicity enhances the precision of analysis.it have the ability to handle large number of variables at a given point of time.
- EC405(A): Subject provide us the clear picture of farm management and production economics, agriculture marketing, farm finance, agriculture legislation, agriculture systems and environmental economics and resource economics.
- EC454(C): Statistical tools and methods are very much applicable in our daily life to reach certain wise decisions. It helps in forecasting and formulation of policies.
- EC455: It expected to give a clear idea on Indian economy and its basic structure and expected to get idea on solving the socio-economic problems in the country.
- EC501: Students would better aware on role of government in economic development.
- EC502 & EC552: Econometric techniques providing the empirical evidence to test the explanatory power of economic theories as well as judgmental power to policy makers.
- EC503(A): Study of it expected to be get idea on present position of the country in socio-economic scenario. It identifies the major bottleneck to the growth of the country and expected to arrive for the comprehensive future plan for achieving different objectives of the development.
- EC503(D): Students are expected to involve in research projects and it encourages them to make a research paper on burning issues of economy.
- EC551: It would give idea on country's relation with other country and international organizations and more importantly students will aware on objectives and functions of different international economic institutions to promote world trade, finance and intellectual properties.
- EC553: Students would better understand on the subject and it helps them for future studies.
- EC554(A): Student would more aware on various methods of risk management and importance of taking the insurance.
- EC554(D): Students are able to get idea on different types of infrastructure and they can aware on importance of infrastructure in economic development of the country.

M.SC IN BIOTECHNOLOGY

Program Outcome

- PO1: Graduates will acquire knowledge pertaining to principles of Biotechnology.
- PO2: Graduates will apply this knowledge to solve problems related to Biology.

Course Outcome

- BTH 401 – Students will develop knowledge of Bio molecules and instruments used to study them.
- BTH 402 – Students will get the knowledge of the inheritance in organisms.
- BTH 403 – Students acquire knowledge of general identification of microbes, their metabolism and association.
- BTS 404 – Students acquire practical knowledge on enzyme assays, factors affecting enzyme activity, enzyme purification and immobilization.
- BTH 451 – Students will be able to isolate, purify and quantify DNA, RNA and Protein.
- BTH 452 – Students will be able to manipulate, amplify Digest DNA construct recombinant DNA and Transform it into Host.
- BTH 453 – Students will be able to produce industrially important products.
- BTS 454 – Students will be able to independently handle instruments commonly used in biological experimentation.
- BTH 501 – Students will be able to isolate and evaluate industrially important microbes.
- BTH 502 – Students will be able execute in vitro method of propagation of plants.
- BTH 503 – Students will be able identify different cells responsible form imparting immunity and perform tests related to antigen – antibody reaction.
- BTS 504 – Students will be able retrieve biological data using biological databases, analyze data using bioinformatics tools. Students will be able analyze experimental data using statistical tools.
- BTH 551 – Students will be able to culture animal cells and test the viability of animal cells.
- BTH 552 – Students will be able to determine quality of environment.
- BTH 553 – Students will be able know the regulatory aspects related to biological research.
- BTP 557 – Students will be able to design and execute the project work related to biotechnology.

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