SREE NARAYANA COLLEGE
SIVAGIRI,VARKALA

PROGRAMME AND COURSE OUTCOMES

PROGRAMME OUTCOMES

B.A History

- Understand the background of our religion, customs, institutions, administration and the existing social, political, religious and economic conditions of the people.
- Analyze relationship between the past and the present and develop practical skills helpful in the study and understanding of historical events.
- The study of history helps to impart moral values.
- History installs the feeling of patriotism in the hearts of the pupils.
- Develop interests in the study of history and activities relating to history, visit places of historical interests, archaeological sites, museums and archives and play active roles in the activities of the historical organizations and associations.

BSc Botany

- The students are expected to acquire knowledge of plants and understand natural phenomenon, manipulation of nature and environment in the benefit of human beings.
- To develop ability for the application of the acquired knowledge to improve agriculture & other related fields.
- To enrich the students with the latest developments in the plant world

BSc Geology

- Geology curriculum program is indented to provide expert education for students who wishes to choose his career in Oil exploration mining and mineral exploration field .
- Educate students in the basic methodology and philosophy of Earth science
- Create ability to collect and analysis geological data
- Understanding the functioning of Hydrosphere lithosphere And Atmosphere
- Understanding the physical processes that shaped the Earth surface.
- Understanding the regional geology and geology of Kerala and India.

MSc Geology

- Understanding the physical and geomorphological conditions of Earth
- Understanding crystal systems and their mineralogical expression and economic importance of mineral
- Understanding how rocks are formed and petrol logical significance and apply this knowledge in sedimentology, Metamorphic petrology and igneous petrology
- Understanding Stratigraphy and palaeontology and apply this knowledge to the evolution of life on earth.

MSc. Physics

The post-graduate program in Physics helps in understanding the basic concepts of physics particularly concepts in classical mechanics, quantum mechanics, statisticalmechanics and electricity and magnetism to appreciate how diverse phenomena observed in nature follow from a small set of fundamental laws through logical and

mathematical reasoning. Also, help to understand the basic concepts of certain sub fields such as nuclear and high energy physics, atomic and molecular physics, solid state physics, and general theory of relativity, nonlinear dynamics and complex system. Through this post-graduate program, students gain thorough subject knowledge to teach itat college as well as school level and viewing physics as a training ground for the mind developing a critical attitude and the facultyof logical reasoning that can be applied to diverse fields.

BSc. Physics

The undergraduate program in Physics help to create an academic base that respond to the needs of the students to understand the basics of Physics and its ever evolving nature of applications in explaining the entire observed natural phenomenon as well as predicting the future applications to the new phenomenon with a global perspective. The student graduating with B.Sc Physics degree should be able to acquire a fundamental/systematic or coherent understanding of the academic field of Physics, its different learning areas and applications in basic physics like Condensed matter Physics, Atomic and Molecular Physics, Mathematical Physics, Material science, Nuclear and Particle Physics, Analytical dynamics, and its linkages with related disciplinary areas / subjects like Chemistry, Mathematics etc. Demonstrate the ability to use skills in physics and its related areas of technology for formulating and tackling physics-related problems and identifying and applying appropriate physical principles and methodologies to solve a wide range of problems associated with physics.

BSc Zoology

- Develop insight and improve their analytical communication and professional skills
- Understanding the morphology and functional characteristics at cellular and sub-cellular (molecular) level
- Enhancing the technical skills for experimental purposes
- Demonstrate and apply the fundamental knowledge of the basic principles of major fields of Zoology
- Apply knowledge to solve the issues related to animal sciences
- Take appropriate steps towards conservation of endemic and endangered animal species

B.Com Finance

- To provide well trained professionals to meet the requirements of various industries including banking, insurance, transport and warehousing.
- To equip students with skills to meet job requirements in fields like finance, marketing, HRM and over all administration .
- Enhance capability of the students to make decisions at personal & professional level
- The program inculcate students with entrepreneurial skills so that they can independently start up their own business venture.
- Students gain theoretical and practical knowledge in accounting, cost accounting and banking to meet industry requirements.
- Students can excel in different professional exams like C.A. , C S, CMA, NET, MPSC, UPSC

- To enhance the communication, decision making, innovative and problem solving skills in students .
- Students can also gain practical skills to work as accountant, auditor , tax consultant and other financial supporting services.
- Students are equipped with research skills in the field of banking and finance.

M.Com International Trade

- Understand the procedures of international trade and evaluate the implications of international trade
- Understand the legal procedure and regulations of international trade, Intellectual Property Rights, patent and copyrights
- Understand and recognize the importance of cross-cultural Business communication in the International Trade practices
- Acquire Knowledge of statistical concepts and analyze international trade related data set and Skill in the application of procedures for statistical inference
- Acquire the knowledge and skill required to conduct a focused research relating to international trade related problems
- Acquire the knowledge and skills relating to the hedging of international risks and risk management tools
- Understand the status of the present international taxation proceedings and applications in international trade

B.Com Hotel Management & Catering

- Students are equipped with professional management techniques in the hospitality sector including hotel administration, accounts, marketing, housekeeping, front office, food and beverage management, catering and maintenance.
- The course imparts practical training and skills to become a professional in the hospitality sector.
- Enhance capability of the students to make decisions at personal & professional level
- The program inculcate students with entrepreneurial skills so that they can independently start up their own business venture particularly in the area of catering.
- Students gain theoretical and practical knowledge in accounting, cost accounting and banking to meet industry requirements.
- Students can excel in different professional exams like C.A. , C S, CMA, NET, MPSC, UPSC
- To enhance the communication, decision making, innovative and problem solving skills in students .

M.A. Economics

- To equip students with advanced knowledge of Applied Economics & Development Issues of Indian Economy in general and Kerala Economy in particular
- To familiarise the students with suitable alternative methods of knowledge on the basis of the heterogeneity of societies

- To develop right skills in students catering to the needs of the industry and policy makers,
- To make the students capable of addressing and solving the issues in the society and the economy by contextualising the knowledge they have acquired
- To create academic excellence through holistic education.

B.A Economics

- To provide students a well-founded education in Economics.
- Opportunity to pursue courses that emphasize quantitative and theoretical aspects of Economics.
- To provide a well-resourced learning environment for Economics.
- To focus on applied and policy issues in Economics.
- To provide programmers that allow the students to choose from a wide range of economic specialization;
- Develop an ability in students to present own analysis of the problems and issues in the language of an 'Economist'.
- To prepare our graduates for employment and further study as economists.

B.A. Malayalam

B.A Malayalam curriculum is intended

- To develop literary creativity among students.
- Through the study of fiction and poetry, students can develop their imagination especially in literature.
- To know about cultural studies and post-colonial theories of literature.
- To provide knowledge on the theory of cinema.
- To provide expert education for students who wishes to choose their career in Media, Cinema, Archeology, Historical Museums, Educational Institutions etc.
- To provide proper knowledge on the life of marginalized society like Dalit, Women etc. This helps them to attain human values which is fruitful throughout their life.
- To develop moral and cultural values and ethics among students.
- To develop the linguistic ability of students.
- To develop character and responsibility among students.

BSc Mathematics

- Mathematics is a powerful tool with many applications ,so in this programme students could acquire basic and deep knowledge in various branches of Mathematics .
- The resources gives sensible thinking, problem- solving capabilities and the capability to think in subjective ways. Provides knowledge in python and latex thoroughly.
- Applied Mathematics can lead to many career opportunities.

B.Sc Chemistry

- Upon completion of BSc Degree programme in Chemistry, students
- Develop scientific outlook scientific attitude and scientific temper
- Develop skill in experimenting , analyzing and interpreting data

- Develop research attitude and adopt scientific method of identifying, analyzing and solving research problems in an innovative way
- Apply physical and mathematical theories and principles in the context of chemical science
- Use chemistry related soft wares for drawing structure and plotting graphs
- Use instruments- potentiometer, conductometer, pH meter and colorimeter.
- Acquire skill in safe handling of chemicals including hazardous materials.
- Identify the ingredients in household chemicals, use them in a critical way
- Predict analytical procedures, compare experimental, theoretical and graphical methods of analysis
- Predict reaction mechanism in organic reactions
- Understand the terms, concepts, methods, principles and experimental techniques of physical, organic, inorganic and analytical chemistry
- Develop critical thinking and adopt healthier attitudes towards individual, community and culture through the course of Chemistry
- Become cautious about environmental aspects and impact of chemicals in soil, water and air and adopt ecofriendly approach in all frontiers of life
- Become responsible in consumption of natural resources and adopt measures for sustainable development.
- Visit Chemical factories and industries with scientific curiosity
- Develop writing skills and presentation skills using audio visual aids
- Compare and share knowledge in an interdisciplinary manner
- Inculcate spirit of originality, novelty, and necessity in scientific research
- Contribute to the academic and industrial requirements of the society
- Get motivated to higher studies - PG Degree in different branches of Chemistry, BEd Degree in Physical Science, and job opportunities in industrial and non industrial sectors
- Adopt safer life skills in a human friendly and ecofriendly way

M.Sc Analytical Chemistry

- Develop a better understanding of the current chemical principles, methods and theories with the ability to critically analyse at an advanced level.
- Acquire solid knowledge of classical and modern experimental techniques and interpretation of results; thereby acquire the ability to plan and carry out independent projects
- Develop the qualities of time management and organization, planning and executing experiments.
- Have a good level of awareness of the problems associated with health, safety and environment
- Understand how chemistry relates to the real world and be able to communicate their understanding of chemical principles to a lay audience and as well apply the knowledge when situation warrants.
- Learn to search scientific literature and databases, extract and retrieve the required information and apply it in an appropriate manner
- Demonstrate proficiency in undertaking individual and/or team-based laboratory investigations using appropriate apparatus and safe laboratory practices.

- Develop analytical solutions to a variety of chemical problems identified from application contexts; critically analyse and interpret qualitative & quantitative chemical information's.
- Set the scene to make use of the wide range of career options open to chemistry graduates.
- Achieve an understanding and appreciation of the crucial role of analytical chemistry and its impacts on life environmental and industrial processes

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SREENARAYANA COLLEGE,SIVAGIRI,VARKALA

COURSE OUTCOME

Outcomes of the courses offered by the Department of Botany			
BOTANY			
Semester	**Course Code**	**Course Name**	**Course Outcome**
Core BOTANY			
Semester I	BO 1141	Angiosperm Anatomy Reproductive Botany and Palynology	Students get knowledge about anatomy of Angiospermic plants and its reproduction. Understand the significance of Palynological studies.
Semester II	BO 1221	Methodology and perspective in plant science	Familiarize the students with fundamental characteristics of science and also develop skill for microscopic specimen preparation.
Semester III	BO 1341	Micro biology, Phycology, Mycology, Lichenology & Plant Pathology	An awareness created among students about various microbes, structure and its economic importance. Students can identify various plant diseases, etiology of pathogens and control measures.
Semester IV	BO1441	Bryology, Pteridology, Gymnosperms &Paleobotany	Students were able to make micro preparations. Can understand the economic and ecologic importance of lower group of plants. Better understanding of fossilization and importance of Paleobotany
Semester V	BO 1541	Angiosperm morphology, Systematic botany, Economic botany, Ethnobotany and Pharmacognosy	Understand basic rules of Angiospermic classification and different types of classification. Students were able to make herbarium sheets. Identification of plants and their families. Better understanding of ethnobotanical and pharmacological significance of plants.
	BO 1542	Environmental Studies and Phytogeography	Develop awareness about natural resources, its conservation and significance. Develop skill to identify polluted sites, major pollutants. Awareness about different types of disasters and strategies to overcome and reduce the impact. Students were able to

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			identify the importance of phytogeographical sites in India.
	BO 1543	Cell biology, Genetics and Evolutionary biology	Students develop clear understanding of cell structure and cell organelles. Able to work out problems in classical genetics. Understand genetic diseases and their inheritance.
Semester VI			
	BO 1641	Plant physiology and Biochemistry	Students get a clear understanding of the basic concept of physiology and biochemistry. Understand macromolecules and their role in cell metabolism.
	BO 1642	Molecular biology, General informatics & Bioinformatics	Students understand various molecular aspects of gene expression and regulation of genes. Students will familiarized to molecular Phylogeny, biological databases, sequence analysis etc.
	BO 1643	Horticulture, Plant Breeding & Research Methodology	Students can devise an experimental design and carry out a project. Understand the procedure of plant breeding and can propagate plants through grafting, budding and layering.
Practical I	BO 1544	Angiosperm anatomy, Reproductive Botany, Palynology, Methodology and Perspectives in plant science	Students get familiarized with anatomical preparations and distinguish various anatomical features of plants. Understand pollen morphoforms. Able to prepare buffers, measure pH, separate plant pigments and construct absorption spectrum of a sample.
Practical II	BO 1545	Microbiology, Phycology, Mycology, Lichenology & Plant pathology, Bryology, Pteridology, Gymnosperms &Paleobotany	Students can able to prepare micro preparations and identify thallus and reproductive structures of lower plant groups. Able to prepare fungicides like tobacco mixtures. Students get better understanding of fossilization and importance of paleobotany.
Practical III	BO1644	Angiosperm morphology, Systematic Botany, Economic Botany, Ethnobotany,	Students get knowledge about different plants and their respective families. Understand ethnobotanical significance of plants. Develops deep

		Pharmacognosy and Environmental studies	understanding about biodiversity and importance of its conservation.
Practical IV	BO 1645	Cell biology, Genetics, Plant physiology, Biochemistry, Molecular biology, Plant breeding and Horticulture	Students can prepare microslides of cell division and identify various stages of mitosis. Able to understand genetic disease and its inheritance. Familiarization of basic physiological practical procedures. Can devise an experimental design .
Project report and Field study	BO 1646	Project	Develop an aptitude for research and helps to identify different areas of research.
Complementary Botany			
Semester I	BO 1131	Microtechnique, Angiosperm Anatomy and Reproductive Botany	Provide an in-depth knowledge about various tissue systems and internal structure. Aquire basic knowledge about embryo development and pollengrains.
Semester II Semester III	BO 1231 BO 1331	Phycology, Mycology,Lichenology, Bryology, Pteridology, Gymnosperms and Plant Pathology Systematic Botany, Economic Botany Ethno Botany and Plant Breeding	Familiarize the students with life cycle and evolutionary significance of lower groups. Impart knowledge about diseases in plants. Aquire knowledge about economic, ethnobotanical significance and pharmacognosy of plants. Understand different plant breeding techniques.
Semester IV	BO 1431	Plant physiology, Ecology, Plant Biotechnology and Horticulture	Understand physiology of Photosynthesis and respiration. Generate awareness about horticultural techniques. Familiarize the students with plant tissue culture techniques. Impart knowledge about various ecosystem.
Practical I	BO 1432	Botany complementary practical-1	Deveop skill in micropreparations. Identify plants and their families Understand economic and ethnobotanical importance of plants.

Outcomes of the Courses offered by Department of Commerce

Course: BCOM FINANCE

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME

\Sem I	Foundation Course I: CO 1121	METHODOLOGY AND PERSPECTIVES OF BUSINESS EDUCATION	To create a basic awareness about the business environment and the role of business in economic development and provide a holistic, comprehensive and integrated perspective to business education
Sem I	Core Course I: CO 1141	ENVIRONMENTAL STUDIES	To enable the students to acquire basic ideas about environment and emerging issues about environmental problems and give awareness about the need and importance of environmental protection
Sem I	Core Course II: CO 1142	MANAGEMENT CONCEPTS AND THOUGHT	To equip learners with knowledge of management concepts and their application in contemporary organizations and facilitate overall understanding of the different dimensions of the management process.
Sem I	Complementary Course I: CO 1131	MANAGERIAL ECONOMIC	To familiarise students with the economic principles and theories underlying various business decisions and equip the students to apply the economic theories in different business situations.
Sem II	Foundation Course II: CO 1221-	INFORMATICS AND CYBER LAWS	To review the basic concepts and fundamental knowledge in the field of informatics and to create an awareness about the nature of the emerging digital knowledge society and the impact of informatics on business decisions and create an awareness about the cyber world and cyber regulations.

Sem II	Core Course III: CO 1241	- FINANCIAL ACCOUNTING	To familiarize the students with different methods of depreciation and equip the students to prepare the accounts of specialised business enterprises
Sem II	CORE COURSE IV: CO1242	- BUSINESS REGULATORY FRAMEWORK	To provide a brief idea about the framework of Indian business Laws and enable the students to apply the provisions of business laws in business activities
Sem II	Complementary Course II: CO 1231	- BUSINESS MATHEMATICS	To familiarise the students with the basic mathematical tools and impart skills in applying mathematical tools in business practice
Sem III	CORE COURSE V: CO 1341-	ENTREPRENEURSHIP DEVELOPMENT	To familiarize the students with the latest programmes of Government in promoting small and medium industries and impart knowledge regarding starting of new ventures.
Sem III	Core Course VI: CO 1342 -	ADVANCED FINANCIA L ACCOUNTING	To create awareness of accounts related to dissolution of partnership firms and acquaint students with the system of accounting for different branches and departments.
Sem III	Core Course VII CO 1343:	COMPANY ADMINISTRATION	To familiarize the students about the salient provisions of Indian Companies Act 2013 and acquaint the students with Management and Administration of Companies, Compliance requirements, investigation into the affairs of the company and Winding up procedure.

Sem III	Elective Course I: Finance CO 1361.1 -	FINANCIA L MANAGEMENT	To familiarise the students with the conceptual framework of financial management and enable the students to understand the practical application of financial management

Sem III	Complementary Course III: CO 1331	- E-Business	To provide students a clear- cut idea of e-commerce and ebusiness and their types and models and impart knowledge on the basics of starting online business
Sem IV	Core Course VIII CO 1441 -	INDIAN FINANCIAL MARKET	To provide a clear-cut ideaabout the functioning of Indian Financial Market in general and Capital market operations in particular.
Sem IV	Core Course IX: CO1442	BANKING AND INSURANCE	To provide a basic knowledge about the theory and practice o banking and provide a basi understanding of Insurance business.
Sem IV	Core Course X: CO 1443	- CORPORATE ACCOUNTING	.To create awareness about corporate accounting in conformity with the provisions of Companies Act, IAS and IFRS and enable the students to prepare and interpret financial statements of joint stock companies.
Sem IV	Elective Course II: FINANCE 38 CO1461.1-	PROJECT FINANCE	.To familiarise the students with the types of project appraisal, risk analysis, project financing costing and valuing and provide an overview of global project appraisal issues.
Sem IV	Complementary Course IV: CO 1431 -	BUSINESS STATISTICS	.To enable the students to gain understanding of statistical techniques those are applicable to business and enable the students to apply statistical techniques in business.

Sem V	Core Course XI: CO – 1541:	FUNDAMENTALS OF INCOME TAX	To familiarize the students about the fundamental concepts of Income Tax and enable the students to acquire the basic skills required to compute the tax liability of individual assessee with more emphasis on Income from Salaries and Income from House property.

Sem V	Core Course XII: CO 1542 -	COST ACCOUNTING	To familiarize the students with cost and cost accounting concepts and make the students learn cost accounting as a distinct stream of accounting
Sem V	Core Course XIII CO 1543	: MARKETING MANAGEMENT	To provide an understanding of the contemporary marketing process in the emerging business scenario and study various aspects of application of modern marketing techniques for obtaining a competitive advantage in business organizations.
Sem V	Open Course: 1 – CO 1551.2	PRINCIPLES OF MANAGEMENT	To provide knowledge on the fundamentals of management principles and functions.
Sem V	Elective Course III: Finance CO 1561.1	FINANCIA L SERVICES IN INDIA	To familiarize the students with the structure and functioning of financial service sector in India.
Sem VI	Core Course XIV: CO 1641	AUDITING	To provide students the knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards and To familiarize students with the audit of Companies and the liabilities of the auditor.

Sem VI	Core Course XV: CO 1642:	APPLIED COSTING	To acquaint the students with different methods and techniques of costing and enable the students to apply the costing methods and techniques in different types of industries
Sem VI	Core course XVI: CO 1643 -	MANAGEMENT ACCOUNTING	To enable students to acquire sound knowledge of concepts, methods and techniques of management accounting and make the students develop competence with management accounting usage in managerial decision making and control.
Sem VI	CO 1651.2	STRATEGIC MANAGEMENT	To give basic understanding about the concepts related to strategic management and to acquaint the students with the managerial tasks associated with implementing corporate strategy.
Sem VI	Elective course IV: Finance CO1661.1-	-TAXATION LAW AND ACCOUNTS	To enable the students to understand the provisions of Income Tax for computing Total Income and Tax liability of various persons and To familiarise the students with the procedure of Income Tax Assessment.

Outcomes of the Courses offered by Department of Commerce

Course: B.COM HOTEL MANAGEMENT AND CATERING

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
Sem I	Foundation Course I: HM 1121	METHODOLOGY AND PERSPECTIVES OF BUSINESS EDUCATION	To create a basic awareness about the business environment and the role of business in economic development and provide a holistic, comprehensive and integ perspective to business education
Sem I	Core Course I: HM 1141	ENVIRONMENTAL STUDIES	To enable the students to acquire basic ideas about environment and emerging issues about environmental problems and give awareness about the need and importance of environmental protection
Sem I	Vocational Course I: HM 1171-	FRONT OFFICE OPERATIONS	To enable the stude nts to acquire basic knowledge of Lod ging Ind ustry and provide knowledge about the Front Office Operations and Pro moting sales.
Sem I	Compleme ntary Course I: HM 1131-	FUNDAME NTALS OF HOUSE KEEPING	. To impart students' basic knowledge about House keeping, cleaning equipment And cleaning agents and provide knowledge about the Accommodation operation and to highlight the scope as a House keeping manager.

Sem II	Foundation Course II: HM 1221-	INFORMATICS AND CYBER LAWS	To review the basic concepts and fundamental knowledge in the field of informatics and to create an awareness about the nature of the emerging digital knowledge society and the impact of informatics on business decisions and create an awareness about the cyber world and cyber regulations.

Sem II	Core Course III: HM 1241	- FINANCIAL ACCOUNTING	To familiarize the students with different methods of depreciation and equip the students to prepare the accounts of specialised business enterprises
Sem II	Vocational Course II: HM 1271-	: Front Office Ma na ge ment	To fa miliarise the students with the front office mana ge ment system and enable the students to develop the skill for the maintena nce of various front office records.
Sem II	Compleme ntary course II: HM 1231	- House Keeping Operations	To i mpart specific knowledge on Linen roo ms, sewing roo m and provide practical exposure on flower arrangeme nt and interior decoration.
Sem III	Core Course III : HM 1341–	MANAGEMENT CONCEPTS AND THOUGHT	To equip learners with knowledge of ma nage me nt concepts and their application in contemporary organizations and facilitate overall understanding of the different di mensions of the ma na ge ment process
Sem III	Core Course IV: HM1342-	ADVANCE D FINANCIAL ACCOUNTING	To create awareness of accounts related to dissolution of partnership firms and acquaint students with the system of accounting for different branches and departments.

Sem III	Vocational Co urse III: HM 1371	- FOOD P RODUCTION THEORY AND PRACTICE	To enable the student to acquire basic knowledge of food production and give basic knowledge on organization & Layout of Kitchen
Sem III	Vocational Cour IV: HM 1372-	FOOD AND BE VERAGE SERVICE	To give basic knowledge on Hotel & Catering Industry and give in-depth knowledge on the organization & Staffing in F & B Service

Sem III	Complementary Course III: HM1331	- E-BUSINE SS	To provide students a clear-cut idea of e- commerce and e-business and their types and models and impart knowledge on the basics of starting online business
Sem IV	Core Course V: HM1441-	BUSINESS REGULATORY FRAME WORK	To provide a brief idea about the framework of Indian business Laws and enable the students to apply the provisions of business laws in business activities
Sem IV	Core Course VI: HM 1442	BANKING AND INS URANCE	To provide a basic knowledge about the theory and practice of banking and provide a basic understanding of Insurance business
Sem IV	Vocational Course V: HM 1471-	ADVANCE D FOOD PRODUCTION THEORY AND PRACTICE	To give in- depth practical training on Quantity food Institutional and Industrial cooking production.

Sem IV	Vocational Co urse VI: HM 1472-	ADVANCE D FOOD AND BEVE RAGE SERVICE	Different alcoholic beverages, cocktails and spirits and Managing F&B outlets
Sem IV	Complementary Course IV: HM 1431 –	BUSINESS STATISTICS	To enable the students to gain understanding of statistical techniques those are applicable to business and enable the students to apply statistical techniques in business
Sem V	Core Course VII: HM – 1541:	-ENTREPRENEURSHIP DE VE LOP MENT	To familiarize the students about the fundamental concepts of Income Tax and enable the students to acquire the basic skills required to compute the tax liability of individual assessee with more emphasis on Income from Salaries and Income from House property.

Sem V	Core Course VIII : HM 1542 -	COST ACCOUNTING	To familiarize the students with cost and cost accounting concepts and make the students learn cost accounting as a distinct stream of accounting
Sem V	Core Course IX HM 1543	: MARKETING MANAGEMENT	To provide an understanding of the contemporary marketing process in the emerging business scenario and study various aspects of application of modern marketing techniques for obtaining a competitive advantage in business organizations.

Sem V	Vocational Co urse VII: HM 1571	- HOTE L FACILIT Y PLANNING	. To enable the students to acquire basic knowledge on planning and designing a hotel and acquaint with role and importance of maintenance department in hotel industry

Sem V	Vocational Co urse VIII: HM 1572 -	HOTE L LAW	To provide knowledge on Hotel Laws relating to Guest relationship and Variousl egislations and regulations related to Hotel Industry.
Sem V	Open course- I: HM 1551.1-	NUTRITION AND FOOD PRESERVATION	To i mpart orientation on principles of nutrition and Preservation of Food.
Sem VI	Core Course X: HM 1641	AUDITING	To provide students the knowledge of auditing principles, procedures and techniques in accordance with current legal requirements and professional standards and To familiarize students with the audit of Companies and the liabilities of the auditor.
Sem VI	Core Course XI:HM 1642:	APPLIED COSTING	To acquaint the students with different methods and techniques of costing and enable the students to apply the costing methods and techniques in different types of industries

Sem VI	Core course XII:HM1643	MANAGEMENT ACCOUNTING	To enable students to acquire sound knowledge of concepts, methods and techniques of management accounting and make the students develop competence with management accounting usage in managerial decision making and control.
Sem VI	HM 1651.2	STRATEGIC MANAGEMENT	To give basic understanding about the concepts related to strategic management and To acquaint the students with the managerial tasks associated with implementing corporate strategy.
Sem VI	Vocational Course IX : HM 1671	- BAKERY AND PATISSERIE THEORY AND PRACTICE	To give exposure to production of Bread, Pastry crea m and familiarize with various commodities
Sem VI	Vocational Co urse X: HM 1672	NUT RITION AND FOOD PRESERVATION	To i mpart orientation on principles of nutrition and Preservation of Food

Outcome of the Courses Offered by the Department of Chemistry

Course: BSc Chemistry

Semester	Course Code	Course Title	Course Outcome
Semester 1	CH1141	Inorganic Chemistry I	the student will be able to appreciate how the inner structure of elements dictates the chemical properties of elements and also understand how the elements are arranged in the periodic table and the properties and application of s -block elements, hydrogen and their compounds and also about environmental pollution
Semester 2	CH1221	Methodology and Informatics	the student is familiarized with the methodology and perspectives of Science and the importance of Science in the development of culture. An awareness about the evolution of Chemistry, basic elements of research in Chemistry, role of Informatics. Learns the elementary aspects of analytical principles and safety measures in the Laboratory
Semester 3	CH1341	Inorganic Chemistry II	Lays a foundation for inorganic chemistry. This course build a thorough knowledge in chemical bonding and compounds of non-transition elements and gives an elementary idea about nanomaterials. It lays a strong foundation in the area of nuclear chemistry
Semester 4	CH1441	Organic Chemistry I	It imparts the behaviour of aliphatic and aromatic compounds and introduces the concept of reaction mechanism. Make the students to understand the mechanism of reactions of organic compounds, stereo chemical aspects, photochemical reactions and aromaticity.
	CH1442	Lab Course I Inorganic Qualitative Analysis	Students learn to determine the ions in a mixture.

Semester 5	CH1541	Physical Chemistry I	Students, upon completion of this course, will gain exposure and practice in the areas of physical chemistry which include gas and liquid properties, thermodynamics, and group theory. The laws of thermodynamics form the appropriate organizational tool to understand the chemistry of bulk systems.
	CH1542	Inorganic Chemistry III	Students, upon completion of this course, will gain exposure and practice in the areas of inorganic chemistry which include coordination chemistry, transition and inner transition elements. Students will have a thorough understanding of the classification of several organometallic reactions and will be able to identify the role of organometallic compounds in organic synthesis. Instrumental methods of analysis and general principles of isolation of elements help the students to understand about the experimental techniques used in chemistry and how the elements are isolated from their ores.
	CH1543	Organic Chemistry II	The students will get an interesting idea about the preparation and properties, mechanism of reactions of many organic conversions and of organic compounds. They will also get sufficient knowledge to interpret spectrum of organic compounds and the novel areas of organic chemistry – the supramolecular and green chemistry.
	CH1544	Lab Course II Inorganic Quantitative Analysis	The students get an in-depth knowledge on how quantitative analyses are done.
	CH1545	Lab Course III (Physical chemistry experiments)	They are introduced to various methods used for the determination of physical constants.
	CH1551.1	Essentials of Chemistry	Students of other discipline get an opportunity to understand the structure of atoms. They will get an idea about radioactive elements and their properties. They also study the importance of polymers and also familiazes the chemical in biological processes

Semester 6	CH1641	Physical Chemistry II	Students will explain and apply the concepts of thermodynamics, quantum mechanics, and spectroscopy to chemical, physical, and biochemical systems. Students will be able to derive essential mathematical relationships in thermodynamics, quantum mechanics, and spectroscopy. Students will evaluate physical and chemical systems by non spectroscopic techniques.
	CH1642	Organic Chemistry III	The students will get an interesting idea about the preparation and properties mechanism of reactions of many organic conversions and of organic compound.
	CH1643	Physical Chemistry III	The main objective of the course is to study the basics of electrochemistry and its importance to modern industry and technology. The course introduces various types of reactions and the different factors that determine the rate of chemical changes. The course also includes the study of the phase diagrams of one, two and three component systems and elementary ideas of photochemistry.
	CH1644	Lab Course IV (Organic chemistry experiments)	Students learn to analyse organic compounds`
	CH1645	Lab Course V (Gravimetry)	Gravimetric method used for quantitative analysis is introduced to students
	CH1661.4	Biochemistry	Demonstrate an understanding of fundamental biochemistry principles, including topics specific to chemistry and biochemistry.
	CH1646	Project	To inculcate proficiency to identify appropriate research topic and presentation

M.Sc ANALYTICAL CHEMISTRY

Semester	Course Title	Course code	Course Outcome (Expected Course Outcomes Upon completion of this course, the students will be able to)
1	Inorganic Chemistry I	CL 211	1. employ crystal field theory in analysing the splitting of d orbitals in octahedral, tetragonal, square planar, tetrahedral, trigonal bipyramidal and square pyramidal fields, calculate Crystal Field Stabilization Energy and Interpret Octahedral

			Site Stabilization Energy. 2. apply Jahn-Teller theorem and demonstrate evidence for JT effect, static and dynamic JT effect. 3. illustrate MOT for octahedral and tetrahedral complexes with and without pi bonds and construct MO diagrams. 4. critically evaluate data from a variety of analytical chemistry techniques and apply knowledge of the statistical analysis of data. 5. interpret complexometric titrations, redox titrations, gravimetric titrimetry and titrations in non-aqueous solvents. 6. apply TG, DTA and DSC in the study of metal complexes. 7. explain the functioning of the frontier materials in inorganic chemistry like Solid Electrolytes, Solid oxide fuel cells, Rechargeable battery materials, Molecular materials and fullerides. 8. explain the preparation, properties and structure of isopoly acids of Mo, W and V and heteropoly acids of Mo and W. 9. explain preparation and properties of xenon fluorides, and noble gas compounds, aluminosilicates, zeolites and silicones and identify the importance of shape selectivity. 10. identify the chemical processes occurring naturally in earth's atmospheric, aquatic and soil environments and evaluates the impacts of human perturbations to these processes.
1	Organic Chemistry I	CL 212	1. write down the IUPAC name of polycyclic, spirocyclic and heterocyclic compounds and draw the structures from the IUPAC name of these compounds. 2. determine R and S, P and M, E and Z configuration of compounds with chiral centres, biphenyls, allenes, spiranes and draw the configurations in dash and wedge formula, or zig –zag configurations. 3. detect prochirality in a compound and explain relevance of prochirality. 4. explain chiral centre, chiral axis and chiral plane with examples, stability of conformations, stereoselective and stereospecific reactions. 5. calculate Cotton effect of a compound from its structure and configuration. 6. explain different methods for generation of free radical and different types of free radical reactions- Predict the products in a free radical reaction. 7. describe different types mechanism of substitution, elimination, hydrolysis and addition reactions. 8. differentiate the rate, mechanism and stereochemistry influenced by solvent, substrate structure, intermediate stability. 9. predict the products or reactants or reagents in selected types of reactions. 10. design the mechanism of selected reactions.
1	Physical Chemistry I	CL 213	1. outline the development of quantum mechanics and its tools and apply them in determining the wave functions and energies of moving particles. 2. recognize the nature of adsorption and propose theories and choose theoretical and instrumental methods of measurements

			of surface property. 3. understand theory and mechanism of catalytic action. 4. correlate thermodynamic properties and apply them in systems. 5. understand theories, mechanism and, kinetics of reactions and solve numerical problems. 6. identify point groups and construct character table and predict hybridisation and spectral properties of molecules.
2	Inorganic Chemistry II	CL 221	1. obtain the term symbols of d n system and determine the splitting of terms in weak and strong octahedral and tetrahedral fields. 2. explain the correlation diagrams for d n and d 10-n ions in octahedral and tetrahedral fields and interprets electronic spectra of complexes. 3. applies magnetic measurements in the determination of structure of transition metal complexes. 4. relates crystalline structure to X-ray diffraction data and the reciprocal lattice and explains the diffraction methods 5. explains crystal defects . 6. elaborates the structure of selected compounds of AX, AX2, AmX2, ABX3 and spinels. 7. explains the electronic structure of solids using free electron theory and band theory. 8. understands the differences in semiconductor and dielectric materials and their electrical and optical properties 9. explain the structure and reactions of S–N, P–N, B–N, S– P compounds and boron hydrides. 10. analyse the topological approach to boron hydride structure and estimates styx numbers and apply Wade's rules in borane and carboranes. 11. identify the electronic configurations and term symbols of lanthanides and actinides. 12. sketches the shapes of f orbital and shows their splitting in cubic ligand field. 13. elaborates the importance of the beach sands of Kerala and their important components.
2	Organic Chemistry II	CL 222	1. discuss the fundamentals, operating principles and instrumentation of separation techniques. 2. differentiate the principle and applications of phase transfer catalysis with examples. 3. describe the various methods of determining reaction mechanisms and basic thermodynamic principles of organic reactions. 4. explain the Hammet parameters of reaction and design an experiment to confirm the mechanism of a reaction. 5. identify different types of rearrangement reactions, determine the product of the reaction applying migratory aptitude, and reproduce the evidences for the mechanism of the reaction. 6. understand that the outcomes of pericyclic reactions may be understood in terms of frontier orbital interactions, correlation diagram, Mobius and Huckel approach. 7. recall and define the various types of pericyclic reaction; define such terms as 'conrotatory', 'suprafacial'. 8. predict and rationalise the outcomes of pericyclic reactions

			including stereospecificity, regioselectivity, and stereoselectivity. 9. state the synthetic importance of the above cycloaddition and rearrangement reactions, and give disconnections of target compounds corresponding to these reactions. 10. describe the fate of excited molecule based on Jabolonoski diagram, predict the course of an organic photochemical reaction and identify the product with the type of functional group. 11. propose synthetic routes to a variety of molecules, starting from simple precursors with correct stereochemistry and reagents of selected reactions.
2	Physical Chemistry II	CL 223	1. apply quantum mechanical principles in solving both real and imaginary spherical harmonics systems-multi electron systems and analyse spectral lines. 2. describe and explain the physical and chemical principles that underlie molecular structure determination techniques like microwave, vibrational, Raman and electronic spectroscopy. 3. predict likely spectral characteristics of given molecular species, and be able to rationalise those characteristics on the basis of structural and electronic arguments. 4. acquire knowledge of basics of statistical mechanics and compare statistical methods. 5. understand and apply of theories of heat capacity. 6. understand theories of electrolytes and electrochemical reactions. 7 ascertain the application of electrochemistry in industrial fields. 8. understand the theories and applications behind various types of analytical techniques in electrochemistry. 9 acquire skill in solving numerical problems.
1 & 2	Inorganic Chemistry Practicals I	CL 214	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. estimate volumetrically the concentration of Zn, Mg and Ni using EDTA and the volumetric estimation of Fe. 3. estimate volumetrically the hardness of water and concentration of Ca in water samples using EDTA. 4. estimate colorimetrically the concentration of Chromium – (using Diphenyl carbazide), Iron (using thioglycollic acid), Iron (using thiocyanate), Manganese (using potassium periodate), Nickel (using dimethyl glyoxime). 5. carry out the preparation of the metal complexes Potassium trioxalatochromate (III), Tetraammoniumcopper (II) sulphate, Hexamminecobalt (III) chloride. 6. record the UV spectra, IR spectra, magnetic susceptibility, TG, DTA and XRD of the complexes prepared.
1 & 2	Organic Chemistry Practicals I	CL 215	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. determine the correct method for separation of a binary mixture and make the separated compounds in pure form. 3. develop thin layer chromatogram of a compound and

			determine its purity. 4. separate two compounds by column chromatography. 5. utilize the synthetic procedures and reagents to convert a compound into another. Differentiate the products by spectroscopic methods. 6. use green chemical principles in the synthesis. 7. solve GC MS and LC MS of a compound to ascertain purity and identity, apply the basic principles learned through a practical example
1 & 2	Physical Chemistry Practicals I	CL 216	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. construct the Freundlich and Langmuir isotherms for adsorption of acetic/oxalic acid on active charcoal/ alumina and determine the concentration of acetic/ oxalic acid 3. determine the rate constant, Arrhenius parameters, rate constant and concentration using kinetics 4. construct the phase diagram and determine the composition of an unknown mixture 5. construct the ternary phase diagram of acetic acid chloroform-water system and out the procedure in an unfamiliar situation to find out the composition of given homogeneous mixture. 6. construct the tie-line in the ternary phase diagram of acetic acid chloroform-water system 7. determine distribution coefficient using distribution law. 8. determine the equilibrium constant employing the distribution law. 9. determine the coordination number of Cu2+ in copperammonia complex. 10. determine Kf of solid solvent, molar mass of non-volatile solute, mass of solvent and composition of given solution. 11. determine KT of salt hydrate, molar mass of solute, mass of salt hydrate and composition of given solution. 12. determine surface tension and parachor of liquids. 13. ascertain the relationship between surface tension with concentration of a liquid and use this to find out the composition of given homogeneous mixture. 14. determine the concentration of given strong acid/alkali. 15. determine the heat of ionisation of acetic acid. 16. determine the heat of displacement of Cu2+ by Zn.
3	Inorganic Chemistry III	CL 231	1. demonstrate knowledge of advanced content in the areas of inorganic chemistry such as in organometallic compounds, bioinorganic compounds, spectroscopic methods in inorganic Chemistry and nuclear chemistry. 2. examine the bonding in simple and polynuclear carbonyls with and without bridging and complexes with linear p donor ligands. 3. explain the structure and bonding of ferrocene and dibenzenechromium with the help of MO theory. 4. understand fundamental reaction types and mechanisms in organometallics and to employ them to understand selected catalytic processes in industry. 5. contrasts the thermodynamic and kinetic stability of complexes, analyses the factors affecting stability of

			complexes and explains the methods of determining stability constants. 6. classifies ligand substitution reactions and explains its kinetics and various mechanisms. 7. analyze the chemical and physical properties of metal ions responsible for their biochemical action as well as the techniques frequently used in bioinorganic chemistry such as oxygen transport, e-transfer, communication, catalysis, transport, storage etc. 8. explain the principles of spectroscopic methods employed in inorganic chemistry and their applications in the study of metal complexes. 9. demonstrate a knowledge of fundamental aspects of the structure of the nucleus, radioactive decay, nuclear reactions, counting techniques. 10. evaluate the role of nuclear chemistry to find the most suitable measures, administrative methods and industrial solutions to ensure sustainable use of the world's nuclear resources.
3	0rganic Chemistry III	CL 232	1. describe and explain the physical and chemical principles that underlie molecular structure determination techniques such as UV-visible, IR, mass and NMR spectroscopy. 2. apply knowledge of molecular structure determination using UV-visible, IR, mass and NMR spectroscopic techniques to identify and/or characterise chemical compounds from experimental data. 3. calculate ?max of a compound, apply IR frequency table to determine the functional groups present in the molecule, interpret mass spectrum of compound from fragmentation. 4. predict likely spectral characteristics of given molecular species; solve the structures of unknown molecules using appropriate spectroscopic techniques. 5. devise a 2 D NMR of a compound based on learned principles and solve the structure of a compound based on NMR data. 6. discuss organic transformations with organometallic compounds and predict the products of the reactions. 7. propose the retro synthetic pathways to a variety of molecules 8. propose mechanisms for chemical reactions, given starting materials, reagents, conditions, and/or products. 9. compare the reactions and mechanism and determine the products of a selected set of reactions; identify protecting group strategies. 10. devise combinatorial method to create a library of compounds. 11. give examples of stereoselective, regioselective and chemoselective reductions and oxidations.
3	Physical Chemistry III	CL233	1. understand the theories of chemical bonding and their application with help of approximate methods predict the nature of orbitals and molecular spectra. 2. compare MO and VBT. 3. understand the properties of gases and liquids and the nature of the intermolecular forces in them. 4. describe the principle behind the determination of surface

			tension and coefficient of viscosity. 5. describe and explain the physical and chemical principles that underlie molecular structure determination techniques like NMR, ESR, Mossbauer, NQR and PES spectroscopy. 6. judge the degrees of freedom of systems and understand theories of irreversible thermodynamic systems. 7. understand the quantum mechanical and non-quantum mechanical methods in computational chemistry, potential energy surface and basis functions. 8. write the Z matrix of simple molecules. 9. acquire skill in solving numerical problems.
4	CHEMISTRY OF ADVANCED MATERIALS	CL 241	1. understand dimensions, synthesis, physicochemical properties of nanomaterials and its applications. 2. understand and apply characterization tools for analysing nano structures. 3. outline and recognize the types of polymerization, kinetics and mechanisms. 4. understand the stereochemical aspects and methods for the determination of molecular weights of polymers. 5. discuss the synthesis and applications of selected classes of speciality polymers. 6. distinguish the types and important applications of smart materials.
4	APPLIED ANALYTICAL CHEMISTRY	CL 242	1. explain the thermal and radiochemical methods used in analytical chemistry. 2. explain the application of radio isotopes and the need for a safe disposal of nuclear waste. 3. explain the principle underlying the methods used in food analysis. 4. carryout the detection of food adulterants. 5. explain the basic principles of forensic analysis. 6. explain the nature of poisons and suggest possible antidotes. 7. explain the importance of DNA finger printing and ballistics in forensic analysis. 8. explain the methods of analysis and the principles involved in the analysis of biological fluids, enzymes, drugs and alcoholic beverages. 9. explain the instrumentation and working principle of Fame spectrometry, AAS, AES, XPS and X-ray fluorescence.
3 & 4	Inorganic Chemistry Practicals II	CL 234	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. estimate a simple mixture of ions (involving quantitative separation) by volumetric and gravimetric methods. 3. perform COD, BOD, DO, TDS analysis. 4. predict likely spectral characteristics of given metal complexes solve the structures of unknown metal complexes using appropriate spectroscopic techniques and magnetic measurements. 5. analyse the XRD of simple substances. 6. interpret TG and DTA curves.

3 & 4	Organic Chemistry Practicals II	CL 235	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. predict likely spectral characteristics of given molecular species; solve the structures of unknown molecules using appropriate spectroscopic techniques. 3. develop paper chromatogram of a compound and determine its purity. 4. estimate quantitatively the Aniline, Phenol, glucose, Ascorbic acid and Aspirin in a sample. 5. estimate colorimetricaly paracetamol, protein and ascorbic acid. 6. use green chemical principles in the synthesis
3 & 4	Physical Chemistry Practicals II	CL 236	1. interpret data from an experiment, including the construction of appropriate graphs and the evaluation of errors. 2. determine the strength of strong/ weak acids by conductometric titrations. 3. verify Onsager equation and Kohlraush's law conductometrically . 4. determine the activity and activity coefficient of electrolyte. 5. determine the concentration of a solution potentiometrically or pH metrically. 6. employ spectrophotometry in determining unknown concentration. 7. determine the viscosity of liquid mixtures and use this in determining the concentration of a component in a mixture. 8. determine the concentration of a liquid mixture using a refractometer. 9. determine the unknown concentration of a given glucose solution.

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF ECONOMICS

Course: PG ECONOMICS

Semester	Course code	Course name	Outcome

SEM-I	EC211	MICRO ECONOMICS – I	Co1: identify appropriate economic models (e.g., models of perfectly competitive markets and various market imperfections) and apply them to analyse and predict the behaviour of individuals and firms interacting in markets. Co2: articulate how individuals and society as a whole benefit or are harmed by economic markets. Co3: determine the profit maximizing price and quantity under perfect and imperfect competition by use of marginal analysis. Co4: understand the utility maximization and expenditure minimization problems.
	EC212	ECONOMICS OF GROWTH AND DEVELOPMENT	Co1: understand that economic development is a multi-dimensional concept Co2: distinguish between the concepts of growth and development. Co3: identify problems faced by developing countries and suggest suitable policies for tackling them.

			Co4: apply the micro- and macro-theoretic tools learnt, for analyzing various development issues.
	EC213	INDIAN ECONOMIC POLICY-I	Co1: students understand information on Indian economy. Co2: they analyse sectoral performance of the economy. Co3: students use relevant statistics to analyse the implication of various economic policies. Co4: they compare and evaluate the growth and development trends of the national as well as regional economies
	EC214	QUANTITATIVE MET HODS FOR ECONOMICS	Co1: to conduct exploratory data analysis using a range of graphical, tabular and numerical tools Co2: to provide a strong foundation in probability theory and statistical inference, especially emphasizing topics required for the study of econometrics. Co3: to develop essential data handling skills using standard spreadsheet software. Co4: create and conduct an empirical research project in economics

SEM-II	EC221	MICROECONOMICS II	Co1: understand the efficiency condition of competitive equilibrium and its welfare implications. Co2: critically understand the fundamental theorems of welfare economics. Co3: compare the various criteria for evaluating social welfare and arriving at a social choice. Co4: analyze decision making of consumer under risk and uncertainty with special emphasis on insurance choice and provide tools for measuring risk and risk aversion. Co5: develop a critical understanding of second or third best.
	EC222	ECONOMICS OF SOCIAL SE CTOR AND ENVIRONMENT	Co1: to understand environmental problems by using economic theory Co2: to analyze environmental problems in an alternative approach Co3: to manage common property effectively Co4: to apply environmental economics for finding solutions to serious environmental problems (e.g. Global warming, ozone depletion, air and water pollution) at different scales

			(global, regional and local).
	EC223	INDIAN ECONOMIC POLICY-II	Course outcome Co1: to introduce the basic concepts of economics to the students to enable them for further learning in Indian and Kerala economy. Co2: to equip the students with the basic idea for further learning. Co3: to help them to analyse the sectoral development that has taken place India as well as in Kerala economy.
	EC224	ECONOMETRICS AND RESEARCH METHODOLOGY	Co1: to create an understanding among the students on basic econometric methodology. Co2: to familiarize students with the concepts and application of cross section, time series and panel data analysis Co3 : to equip students to analyse real life data with the help of econometric tools Co4 : to help students to increase their analytical power substantially along with enhancement of other cognitive skills.
SEM-III	EC231	MACROECONOMICS-I	Co1: to promote understanding of alternative perspectives with

			respect to macroeconomic theories and policies. Co2 :to enhance the analytical skills of the student towards understanding the Developments in the economy. Co3 :to introduce the student to the art of abstracting and building small models related to the macroeconomics. Co4 :to introduce the student to the economics of Keynes and further to is lm analytics. The various theories related to consumption, investment and demand for money are introduced in this section. Co5: gives a fair exposure to the importance of regulating the financial system, and draws attention to the limitations to policymaking in an open economy.
	EC232	INTERNATIONAL ECONOMICS -I	Co1: understand basis of gainful trade between countries Co2: the students will be introduced the models of international trade Co3: students will be able to discuss and explain contemporary and day-to-day policy issues such as the effects of specific trade policy changes

			by a country, impact of us-china trade war, impact of BREXIT, trade protectionism, effects of free trade agreements, dumping and anticompetitive practices etc .
	EC233	P UBLIC ECONOMICS	Co1: to understand the regulatory developmental responsibilities of government in a democratic country like India. Co2: to covers the theoretical and empirical dimensions of public goods and public choices, fiscal instruments and fiscal federalism with special reference to Indian context. Co3: covers the present fiscal management issues of India.
	EC203	LABOUR ECONOMICS (OPTIONAL I)	Co1: to sensitize the students on the theoretical as well as empirical issues pertaining to labour market, wage theories, employment policies, trade unions etc. Co2: to develop skills for analyzing problems in the labour market and frame strategies for the smooth functioning of the labour market.
SEM-IV	EC241	MACROECONOMICS-II	Co1: introduce the tradeoff between inflation and unemployment through short run

			and long run Phillips curve. Co2: describe the various growth theories and its policy implications Co3: differentiate the perspectives of new classical economics from real business cycle theories Co4: distinguish the assumptions and policy prescriptions of post-Keynesians from the new Keynesians. Co5: identify the role of central bank in macroeconomic policy on the basis of three equation models and enhances the ability of the student to comprehend the issues of financial instability and crisis through original articles
	EC242	INTERNATIONAL ECONOMICS-II	Co1: To introduce to students the theories of international finance flows, determination of interest and exchange rates in interconnected economies, macroeconomic policies available to the government, and the nature of financial crises. Co2: To provide a framework for consistent reasoning about international flows of goods, factors of production, and financial assets, trade policy and monetary policy in open

			economy. Co3: To understand the relevant connections between theory and real-world examples, through different policies, readings and case studies.
	EC243	FINANCIA L SECURITIES MARKET ANALYSIS	Co1: To provide comprehensive study of the significance of Securities Market in modern financial system. Co2: To introduce the modern financial theory as applied to investment analysis, balanced with a consideration of new developments in the discipline, and of the application of both old and new theoretical perspectives to understand the current environment for financial investment decisions.
	EC208	DEMOGRAPHY (OPTIONAL-II)	Co1: To understand the dynamics of population growth, theoretical side of population, demographic data sources and the link between demography and socio-economic development of a society. Co2: The course should enable the students to understand the theoretical, empirical and policy implications of demographic issues in a developing country like India

	EC244	DISSERTATION	Co1: To develop research aptitude and skills among the students.

B A ECONOMICS

Semester	Course Code	Course Name	Course Outcome
Semester-I	EC1141	Introductory Microeconomics	Co1: To introduce the students basic concepts and theories in Microeconomics
Semester-II	EC1241	Intermediate Microeconomics	Co1: The course intends to give basic understanding of microeconomics
Semester-III	EC1321	Informatics for applied Econometrics	Co1: to introduce online resources which help students to improve teaching –learning experience Co2: to utilize these web resources to enhance their career and academics Co3: to covers estimation and diagnostic testing of simple regression model with computer software
	EC1341	Introductory Macroeconomics	Co1: to offer short introduction to macroeconomics Co2: to introduce multiplier and Keynesian theory Co3: introduces the students to ISLM analysis
SEM- IV	EC1441	Mathematical Methods for Economics	Co1: to provide the students an insight into the importance of

			Mathematical methods in economics. Co2: to familiarize them with the basic mathematical techniques used in economic analysis. Name of the course: intermediate macroeconomics Co1: to introduce students to the micro foundations of macroeconomics, inflation unemployment, economic growth and fiscal and monetary policies in an open economy.
	EC1442	Intermediate Macroeconomics	To introduce students to the micro foundations of macroeconomics, inflation and unemployment, economic growth and fiscal and monetary policies in an open economy
SEM-V	EC1541	Methodology and perspectives of social science	Co 1: to familiarize the students with the broad contours of Social sciences, specifically economics and its methodologies, tools and analysis procedures. Co2: to create an enthusiasm among students, incorporating various concepts and issues in economics.
	EC1542	Statistical methods for economics	Co1: to familiarize the students with statistical tools and techniques and enable them to apply these tools in economics

	EC1543	Readings in political economy	Co1: to introduces the student to different perspectives of political economy Co2: to familiarize the students on the principles of political economy and taxation, transformation of money into capital.
	EC1544	Economic growth and development	Co1: to ensure that students begin to understand basic concepts of economic growth, development and thereby enable them to acquire multi-dimensional aspects of developmental issues. Co2: to convey knowledge about theoretical framework of growth and development under different schools of economic thought Co3: to impart knowledge about political institutions, the role of the state in economic development and problems that affect state governance.
	EC1545	International economics	Co1: to understand the basic concepts and theories of international trade Co2: to enable students to have a basic understanding of the emerging trends, issues and policies in the field of international economic system.

SEM-V	EC 1551.2	Human Resource Management	Co1: the course is aimed at providing basis for understanding the significance of human resource in the growth of our economy Co2: To providing the basis for life enrichment and career orientation.
SEM-VI	EC 1641	Indian Economy	Co1: to provide an understanding about growth process in Indian economy, Sectoral aspects of the economy by focusing agriculture, industry and service sectors, relations of India with external sector and economic reforms
	EC 1642	Banking and finance	Co 1: to familiarize the students with the basic concepts in banking and finance. Co 2: to develop a comprehensive knowledge on the role of banks in the operation of an economy. co 3: to enables them to know the operation of the indian financial system and activities in the financial markets.

THE OUTCOMES OF THE COURSES OFFERED BY THE DEPARTMENT OF

ENGLISH- FIRST LANGUAGE

SEMESTER	COURSECODE	COURSE NAME	OUTCOME
Sem I	EN 1111.1(B.A/BSC) EN1111.2(BCOM) EN 1111.3(BCOM HM)	Language Skills	To learn basic skills of Listening, Speaking, Reading and Writing.

	EN 1121(BA/BSc)	Writings on Contemporary Issues	To have an overall understanding of the major issues in the contemporary world
Sem II	EN 1211.1(BA/Bsc)	Ability Enhancement Compilsory Course: Environmental Studies and Disaster Management	To understand environmental crisis and disaster management situations
	EN 1212.1(BA/BSc) EN 1211.2(BCom) EN 1211.3 (BCom HM)	English Grammar Usage and Writing	To have an appreciable understanding of English Grammar.
Sem III	EN1311.1(BA/BSc) EN 1311.3(BCom HM)	English for Career	To acquire the necessary language skills required in the competitive job market
	EN 1311.2 (BCom)	Business English	To understand the basic concepts of business communication
Sem IV	EN 1411.1(BA/BSC) EN 1411.2(BCom) EN 1411.3(BCom HM)	Readings in Literature	To understand and appreciate literary discourse

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF GEOLOGY

Course: B. Sc Geology

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
Semester I	GL 1141	General Perspective of Geology	This course helps students to understand the functioning of the lithosphere, hydrosphere and atmosphere
Semester II	GL 1221	Information Technology & Methodology in Earth Science	Educate students regarding the basic methods and philosophy used to conduct scientific research, particularly in the geological sciences
Semester III	GL 1341	Crystallography	Educate students to understand different crystal forms for the formation of minerals with specific forms.
Semester IV	GL 1441	Mineralogy	Impart a good working knowledge of physical and chemical characteristics of common minerals in the non silicate and silicate mineral groups
	GL 1442	Crystallography and Mineralogy practical	This course helps to get knowledge on minerals, its identification by observation of hand specimen and thin sections through microscope, also provide a basic knowledge on crystal geometry
Semester V	GL 1541	Structural Geology	Generate awareness on the role that lithospheric plates and their movement play in shaping the earth landmasses and ocean basins and the internal compositional and mechanical attributes of planet earth.
	GL 1542	Stratigraphy and Paleontology	Develop an understanding and appreciation of geologic time and to evaluate data in the context of major events and trends in the evolutionary history of plants and animals from the record and ability to

			reconstruct the biological traits of extinct organisms.
	GL 1543	Stratigraphy of India	It helps to understand the regional geology of Kerala and India and geographic distribution, geological settings, reserves and resources of major earth resources
	GL 1544	Igneous Petrology	It helps to distinguish igneous rocks from other types of rock based on their physical characteristics and mode of origin
	GL 1552 (Open Course) GL 1641	Disaster Management Sedimentary Petrology and Metamorphic petrology	It helps to handle and prepare for various disasters It helps to distinguish Sedimentary and metamorphic rocks from igneous rock based on their physical characteristics and mode of origin and to understand and interpret how they form.
Semester VI	GL 1642	Economic Geology	Create the ability to plan and manage earth resources and understand a range of issues related to man's exploitation of such resources.
	GL 1666.1 (Elective for Geology core)	Groundwater Investigation and Management	It helps to understand the Groundwater occurrence, distribution, exploration and different parameters of aquifers.
	GL 1643	Structural Geology and Stratigraphy practical	Develop an understanding and appreciation of geologic structures and to evaluate data in the context of major events and trends in the evolutionary history.
	GL 1644	Petrology practical	This course helps to understand on rocks, its identification by observation of hand specimen and thin sections through microscope.
	GL 1645	Economic	Create the ability to

		Geology and Palaeontology practical	understand different types of ore minerals and understand different types of species previously existed in the Earth.

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF GEOLOGY

M.Sc. Geology

SEMES TER	COURSE CODE	CO URSE NAME	OUTCOME
Se mester I	GL 211	Physical Geology and Geo morp hology	To understand why landscapes look the way they do, to understand landform history a nd dyna mics and to predict changes
	GL 212	Structural Geology and Engineering Geology	Generate awareness on the role that lithospheric plates and their move me nt play in shaping the earth land masses and ocean basins and the internal co mpositional and mecha nical attributes of planet earth.
	GL 213	Crystallography and Mineralogy	Educate stude nts to understand different crystal for ms for the formation of minerals with specific forms in advanced level using projection techniques, different instrume nt in the field of mineralogy, study of ge m
	GL 224	Practical I: Geo morp hology, Structural Geology, Crystallography and Mineralogy	It helps to get practical knowledge on projection techniques in structural geology, crystallography and optical knowledge in mineralogy
Se mester II	GL 221	Environmental Geology	This course bring basic idea of managing geological and hydrogeological resources suc h as fossil fuels, minerals, water (surface and ground water), and land use.
	GL 222	Sedi mentology a nd Geoche mistry	This course enco mpasses the study of modern sedi me nts such as sand, silt, and clay, and the processes that result in their for mation (erosion and weathering), transport, deposition and diagenesis. Geochemistry is the tools and principles of chemistry to explain the mecha nis ms behind major geological syste ms such as the Earth's crust and its oceans.

	GL 223	Remote Sensing and Geographic Infor mation Syste m Application	This course ai ms to provide in-depth understanding of re mote sensing, satellite i mage analysis, Geographic Infor mation Syste m (GIS) and Global Positioning System and their applications in various fields.

	GL 225	Practical II: Sedi mentology, Remote Sensing and Survey	This course ai ms to provide in-depth understanding of areal i mage analysis, sedi mentary rock analysis and calculation of textural para meters from sedi me nts.
Se mester III	GL 231	Stratigraphy and Paleontology	This course of Stratigraphy and Paleontology give idea in the field of (biological) validation of proxies and the development of ti me scales.
	GL 232	Igneo us and Metamorphic Petrology	
	GL 233	Hydrogeology	This course deals with the distribution and move ment of groundwater in the soil and rocks of the Earth's crust (co mmo nly in aquifers).
	GL 244	Practical III: Igneous and Meta morphic Petrology and Hydrogeology	This course provides practical knowledge in Igneous and Meta morphic Petrology a nd Hydrogeology.
Se mester IV	GL 241	Economic Geology	: Explore the field of geology that provides us with the raw earth materials we need. In this course, we'll learn the scope of economic geology, distribution and occurrence of economic mi nerals.
	GL 242	Exploration Geology	This course helps to understand the uses of geophysical and Geochemical techniques to analyze geographic locations in search of natural resources.
	GL 243	Applied Geology and Geostatistics	This course provides knowledge and understanding of a wide range of applied geoscience and geostatistics used to analyze and predict the values associated with spatial or spatiotemporal phe nomena
	GL 245	Practical IV: Economic Geology, Exploration Geology and Applied Geology	This course helps to get practical knowledge in the field of Econo mic Geology, Exploration Geology and Applied Geology
	GL 246	Dissertation	It gives grounding in the application of geological principles to a wide range of fields appropriate to the topic take n by the stude nt and i t helps to enlighten research aptitude of students.

THE OUTCOME OF THE COURSES OFFERED BY THE DEPARTMENT OF HINDI

Course: Additional Language Hindi for B.A./ B.Sc.

Semester	Course Code	Course Title	Outcome
1	HN 1111.1	Hindi Katha Sahitya	1) Recollect the main works of the representative fiction writers 2) Understand the craft of the fiction writers 3) Analyse and evaluate the works of the fiction writers they studied 4) Understand how the resource language is used as a medium in creative writing. Hours distribution: 2 hours each for each text.
2	HN 1211.1	Hindi Nibandh aur anya gadya Vidhayen	i) Recollect the main works of the prescribed writers ii) Understand the forms of various prose writing in Hindi iii) Analyse & evaluate the prose forms prescribed, with respect to the craft and the relevance
3	HN 1311.1	Hindi Natak, Vyakaran tatha Anuvad	1) critically appreciates play (2) Understands difference between spoken Hindi and written Hindi (3) Writes grammatically correct sentences in Hindi (4) Defines different parts of speech and identifies them in a given sentence (5) Translates simple passages from English to Hindi
4	HN 1411.1	Hindi Kavita Evan Ekanki	1) Appreciates ancient and modern Hindi poems. (2) Critically evaluates the contribution of Ancient & modern poets to the development of Hindi poetry (3) Elucidates key lines of poetry with reference to context (4) Appreciates and evaluates one act play with respect to craft and subject.

Additional language Hindi for B.Com.

Semester	Course Code	Course Title	Outcome
1	HN 1111.2	Hindi Gadya aur Vyavasayik Lekhan	1) Appreciates prose writings in Hindi (2) Critically evaluates the contribution of prescribed writers of prose to Hindi literature (3) Differentiates various types of letters based on their style and components (4) writes personal, official and business letters in Hindi
2	HN 1211.2	Hindi Kavita Anuvad aur paribhashik sabdavali	1) understands the development of Hindi poetry from the Bhakti period to modern times (2) Translates simple passages from Hindi to English & vice versa (3) opens a career option that of a translator.

Additional Language Hindi for B.Com.

Semester	Course Code	Course Title	Outcome
1	HN 1111.4	Adhunik hindi Sahitya	1) Appreciates the aesthetics of Hindi Poetry & prose (2) critically evaluates the contribution of Hindi poets to Hindi lit. (3) understands the difference between short story & essay, essay & sketch and also essay & autobiography (4) critically evaluates the contribution of prescribed short story writers, essayists to Hindi lit.
2	HN 1211.4	Hindi Natak Vyavasayik Lekhan aur anuvad	1) critically appreciates the play with respect to its style, craft and relevance (2) writes business letters in Hindi (3) Translates simple passages from Hindi to English and vice versa (4) opens a career option- that of a translator

Outcomes of the Courses offered by Department Department of History

Course: BA History

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
I	HY 1141	Course I – Methodology and Perspectives of Social Sciences.	The course intends to familiarise the students with the broad contours of social sciences and its methodology. To familiarise the main concerns of social science disciplines to articulate the basic terminologies and theories prevalent in concerned disciplines. Critically read popular and periodical literature from a social science perspective.
II	HY 1241	Course 2- Cultural formation of the Pre-Modern World.	To enable the students to engage with conceptual and general issues regarding culture and civilization of the ancient period. To inculcate an awareness among the students about the cultural heritage of mankind. To have a sound knowledge about changes that took place among the major cultures of world civilizations. To give an idea about the harmonious existence of the different sections of the people.
III	HY 1321	Course 3 Informatics	To update and impart basic skills in informatics relevant to the emerging knowledge society and also to equip the students effectively to utilise the digital knowledge of their course. To review the basic concepts and functional knowledge in the field of informatics. To impart functional knowledge in a standard office package and popular utilities and to create awareness about social issues and concerns in the use of digital technology. To develop the skills to enable students to use digital knowledge resources in learning
III	HY 1341	Course 4 Evolution of Early Indian Society and Culture	To analyze the salient features of pre historic and proto historic culture in India and to trace the evolution of Indian culture with special reference to the society and polity of ancient period. To familiarise the students with the heritage of India.
IV	HY 1441	Course 5 Medieval India : Socio – Cultural Processes	Equip the students to have an idea on the social, cultural and administrative features during the medieval period.

			To familiarize the students, the processes that made the socio-cultural specificities possible and to make the stude nts, aware of the linkage effect of this period in subseque nt centuries. Feature: Political (Dynastic) history as such is avoided, however ad ministrative syste m prevailed in the period concerned is included.
IV	HY 1442	Course 6 History of Modern World – PART I	To familiarise the students about the cha nges in the history of the modern world and to analyse the age nda of the imperialistic powers in Latin America and Africa. To create an understanding a mo ng students about the liberal ideas and freedo m struggles.
V	HY 1541	Course 7 Major Trends in Historical Thoughtand Writings	To enable the stude nts to understand the history of historical writings and to intellectually equip the stude nts to evaluate the works in the light of new theories and concepts.
	HY 1542	Course 8 Colonialis m and Resistance Moveme nts in	To review the circumsta nces that led to the establishme nt of colonialism in India. To bring out the impact of colonial rule in India with particular reference to socio-religious , political and econo mic fields. To analyse the ge nesis and progress of the resistance move me nts against the British. •
	HY 1543	Course 9 History of Modern World – PART II	To trace the significance of the unification moveme nts in Italy and Germa ny that paved the way for the beginning of a new epoch. To give an idea about the first and second world wars and to evaluate the achieve me nts of the international orga nisations.
	HY 1544	Course 10 History of Pre Modern Kerala	Understanding the early historic Kerala and the for mations of nadus and swaroopa ms is the essentiality of this paper . The paper also throws lights on the rise of new kingdo ms in Kerala..
	HY 1545	Course II Ma king of Indian Nation	The students will have thorough knowledge on the entire aspects of the struggle for Indian independence . In this paper the students will analyse the role of Gand hiji towards freedom struggles.
VI	HY 1641	Course I2 Ma king of Modern Kerala	The students will be equipped with the knowledge on colonial powers and their inventions on Kerala society. The paper also specifies the early political moveme nts ,agitations for responsible government and the for mation of the state of Kerala.

	HY 1642	Course I3 Major Trends in Indian Historical T hought and Writings	To enable the stude nts to understand the origin and developme nt of historical writings in India. To locate major historical works in Indian history. To create an awareness amo ng the students about the influe nce of ideas and theories, trends and concepts in Indian historical writings.
	HY 1643	Course I4 Contemporary India	To provide the students with a graphic account of the circumstances that led to the for mation of Indian Union. To understand the challenges faced by independent India and the bold measures initiated after independe nce. To evaluate the achieve ments of contemporary India with special reference to science, information, technology.
	HY 1644	Course I5 The Twentieth Century Revolutions	To introduce the students four major revolutions of the 20th century especially Russian, Chinese, Vietna mese and Cuban. To acquaint the stude nts about the legacy of the above revolutions and to familiarize the students about the nature , scope and significance of the revolutions in the present context.
	HY 1651.6	History of Huma n Rights Move me nts	This course enable the stude nts tounderstand the historical growth of the idea of huma n rights , demo nstrate an awareness of the international context of huma n rights , de monstrate an awareness of the position of human rights in India understand the importance of the huma n rights co mmission and ,analyse and evaluate concepts and ideas.
	HY 1645	Course I7 Project work	The students are entitled to do a project work on any social proble m relevant the study of history. The project work contains introduction, review of li terature, methodology, analysis, along with conclusion and bibliography.
	HY 1131.1	Course I8 Subsidiary and Ope n course	The department of history provides subsidiary course of history to Departme nt of Economics. The department also offers an open course titled history of Human Rights Move ments to the students of various departments who are interested in history.

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF MALAYALAM

Course: B A MALAYALAM

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
SemI	**Language Course II ML 111.1**	**MalayalaKavitha**	Understand lite great tradition of Malayalam poetry
	Core Course I- ML 114.1	**Novel CharithrayumPadanavum**	To understand the origin, history and the current trend in Malayalam novel
	Comp;Course I – ML 113.1	**Kerala Samskaram Part 1**	To develop *a* perspective of the cultural history of Kerala To understand the literary background in its locality
SemII	Lang.Course V- ML1211.1	Additional Language 2 Gadhyasahityam	Understand different types of Malayalam prose
	Core Course II- ML 1241	NadakamCharitramPadavamPrayogam	To understand drama as an art form
	Comp;Course III – ML 1231	Kerala SamskaramPart 2	Understand the development of Malayalam Culture
SemIII	Lang: Course VII ML 1311.1	Drisyakalasahityam	To understand the various elements of audio visual literature forms
	Found: Course –II ML .1321	Informatics AdunikaSankethikavidyayum MalayalaBhashaPadanavum	Understand the modern technologies influencing literature students like Malayalam computing, cyber literature internet language discourses etc.
	Core Course III- ML 1341	SahithyaSidantangal: PashchatyavumPourastyavum	Understand the important literary theories which are formulated in the east and the west
	Compl: Course V- ML 1331	ParisthithiSidhanthavumAvishkaravum	To help students understand Eco criticism
Sem IV	Lang.Course IX ML 1411.1	Asayavinimayam, Sargathmakarachana and Bhashavabodham	To understand the various elements of communication process

	Core Course IV- ML 1441	Malayalakavitha Poorvakhattam	To understand the origin and development of Malayalam poetry
	Core Course V- ML 1442	Malayala Sahitya Niroopanam	To understand the origin, evolution and contemporary state of Malayalam criticism
	Compl.Course VII ML 1431.1	Dalit EzhuthumPennezhuthum: SidhanthavumAvishkaravum	To understand the theoretical as well as the creative perspective Dalit and Women's writing,.
Sem V	Core Course VI - ML1541	BhashaSasthram : BhashaCharitram	To understand the Linguistic History of Language
	Core Course VII- ML 1542	CherukadhaPadanam	To understand the history, definition and the tradition of short story
	Core Course VIII – ML 1543	VivarthanamSidhandavumPrayogavum	To enable the students to understand the importance of translation and its relevance in our social life.
	Core Course IX – ML 1544	Jeevacharithram, Athmakadha, Yathranubhavam	To understand the unique nature and function of biography, autobiography and travelogue
	Core Course X- ML 1545	ThirakadhayumCinemayum	To understand the influence of Cinema on humans and its origin and evolution
	Open Course ML 1551.3	MalayalaPatrapravarthanam	To get professional skill in Malayalam print media.
Sem VI	Core Course XI - ML 1641	Madyamalokam	To understand the origin and development of print and electronic media
	Core Course XII- ML 1642	MalayalaVyakaranam	To understand the development of grammatical theory and practice
	Core Course XII- ML 1643	MalayalaKavithaUttarakhattam	To sensitize students to the development of modern Malayalam poetry
	Core Course XIV- ML 1644	Nadodivijnaneeyam	To understand the folklore tradition of Kerala
	Elective ML 1651.5	MalayalaPatrapravarthanam	To get professional skill in Malayalam print media.
	ML 1645	Project /Dissertation	

THEOUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF MATHEMATICS

Course: BSc Mathematics

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
I	MM 1141	Methods of Mathematics	1. Familiar with the fundamental methods solving problems. 2. Finding the rate of changes through differentiation method 3. Finding the area under a curve through the integration method
I	MM 1131.1	Calculus with applications in Physics – I	1. Understand Differentiation and Integration with application toPhysics 2. Aware of infinite series and its convergence. 3. Familiar with Basic Vector Algebra.
I	MM 1131.2	Calculus with applications in Chemistry– I	1. Understand Differentiation and Integration with application to Chemistry 2. Familiar with basics in Complex numbers and Hyperbolic functions 3. Familiar with Basic Vector Algebra.
II	MM 1221	Foundations of Mathematics	1. Understanding the concepts of sets and functions. 2. Understand the way in which a mathematician formally makes statements and proves or disproves it.
II	MM 1231.1	Calculus with applications in Physics – II	1. Familiar with basics in Complex numbers and Hyperbolic functions. 2. Got an idea about Partial Differentiation and evaluate multiple integral. 3. Understand Vector Differentiation
II	MM 1231.1	Calculus with applications in Physics – II	1. Aware of infinite series and its convergence. 2. Got an idea about Partial Differentiation and evaluate multiple integral. 3. Understand Vector Differentiation
III	MM 1341	Elementary Number Theory and Calculus – I	1. Understand Abstract Algebraic structure. 2. Understand the fundamental facts in Elementary Number Theory. 3. Familiar with the basics of calculus of vector valued functions and multiple integrals.
III	MM 1331.1	Calculus and Linear Algebra	1. Got a concrete idea about ordinary differential equations and how to solve it. 2. Understand Vector Integration and Fourier Series 3. Familiar with Basic Linear Algebra
III	MM 1331.2	Linear Algebra, Probability Theory & Numerical Methods	1. Understand Numerical methods 2. Understand Probability and Statistics 3. Familiar with Basic Linear Algebra

IV	MM 1441	Elementary Number Theory and Calculus – II	1. Understand the fundamental facts in Elementary Number Theory. 2. Familiar with the basics of calculus of vector valued functions and multiple integrals

IV	MM 1431.1	Complex Analysis, Special Functions, and Probability Theory	1. Concrete idea on Complex Analysis 2. Familiar with some special functions such as The Factorial Function, Gamma Function. 3. Understand Probability and Statistics
IV	MM 1431.2	Differential Equations, Vector Calculus, and Abstract Algebra	1. Got a concrete idea about ordinary differential equations and how to solve it. 2. Understand Vector Integration and Abstract Algebra.
V	MM 1541	Real Analysis – I	1. Understand the ideas of sequence of real numbers and the concept of infinite summation in a formal manner. 2. A minimal idea to the metric space structure of R and a step-ping stone into the idea of abstract topological spaces
V	MM 1542	Complex Analysis – I	1. Understand basic complex function theory. 2. Familiar with Complex Integration
V	MM 1543	Abstract Algebra – Group Theory	1. A very strong foundation in the theory of groups. 2. Understand the concept of Classifying groups based on the fundamental theorem
V	MM 1544	Differential Equations	1. Got an idea about how differential equations arise in various physical problems 2. Solve first order differential equations and second order linear equations.
V	MM 1551.1	Operations Research (Open Course)	1. Understand the idea behind Formulation of Linear Programming models. 2. Understand Transportation problems and Project Management.
VI	MM 1641	Real Analysis – II	1. Understand the concept of continuity, existence of derivatives, and integrability.
VI	MM 1642	Complex Analysis – II	1. Familiar with Power Series Representation of Analytic Functions such as Taylor Series, Laurent series. 2. Understand Residue Theorem and how it is used to solve real Improper Integrals 3. Got an idea about Conformal mapping and Mobius Transformations.
VI	MM 1643	Abstract Algebra – Ring Theory	1. Familiar with higher algebraic structure rings. 2. By numerous examples got a strong foundation on Rings and Fields
VI	MM 1644	Linear Algebra	1. Understand how to solve system of linear equations. 2. Familiar with Vector spaces and how Matrix related to Vector algebra.
VI	MM 166.1	Graph Theory	1. Aware of some of the fundamental concepts in Graph Theory 2. Develop better understanding of the subject so as to use these ideas skilfully in solving real world problems.

VI	MM 1541	Computer Programming	1. Familiar with document preparation using LATEX 2. Understand the basics of computer Programming using Python
VI	MM 1646	Project	1. Comprehensive Viva 2. Recognize the importance of planning and preparing required to undertake a research project 3. Develop a thorough understanding of the chosen subject area 4. Demonstrate the ability to collate and critically interpret and assess data

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF

PHYSICAL EDUCATION- Course: open course

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
V	PE1551	Health and Fitness Education	1. To introduce the fundamentals of Health and Physical fitness. 2. To provide infor mation about the scientific basis and benefits of Physical Activity. 3. To enable the stude nts to lead a healthy lifestyle. 4. To i mpart knowledge regarding health, nutrition and first aid measures. 5. To give a brief awareness about sports & ga mes and their influence in the society.

THE OUTCOMES OF THE COURSES OFFERED BY THE DEAPRTMENT OF PHYSICS

COURSE: BSc PHYSICS

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
Semester 1	PY1141	Basic Mechanics And Properties Of Matter	Students will be able to articulate and describe: 1 Relative motion. Inertial and non-inertial reference frames. 2 Parameters defining the motion of mechanical systems and their degrees of freedom. 3 Study of the interaction of forces between solids in mechanical systems. 4 Centre of mass and inertia tensor of mechanical systems. 5 Application of the vector theorems of mechanics and interpretation of their results. 6 Newton's laws of motion and conservation principles.

Semester 2	PY1241	Heat And Thermodynamics	Students will have achieved the ability to: 1.Describe basic concepts of Thermodynamics 2. Formulate the first law of thermodynamics for a closed systems and arrange the change in energy in the closed systems via heat and work transfer 3. Apply the first law of thermodynamics to the open systems. 4. Analyse energy changes in chemical reaction using first law of thermodynamic

Semester 3	PY 1341	Electrodynamics	Students will have achieved the ability to: 1. use Maxwell equations in analysing the electromagnetic field due to time varying charge and current distribution. 2. describe the nature of electromagnetic wave and its propagation through different media and interfaces. 3. explain charged particle dynamics and radiation from localized time varying electromagnetic sources.
Semester 4	PY1441	Classical And Relativistic Mechanics	The student 1. can explain and compare the Lagrangian and Hamiltonian formulations of classical mechanics 2. can derive Kepler's laws 3. can explain the fundamental concepts of special relativity and how to perform Lorentz transformations 4. is framiliar with the relativistic notation for 4-vectors and tensors 5. can explain the emergence of chaos in dynamical systems
Semester 5	PY1541	Quantum Mechanics	
	PY1542	Statistical Physics, Research Methodology And Disaster Management	1. Use the statistical physics methods, such as Boltzmann distribution, Gibbs distribution, Fermi-Dirac and Bose-Einstein distributions to solve problems in some physical systems. 2. Apply the concepts and principles of black-body radiation to analyze radiation phenomena in

			thermodynamic systems. Students should be able to identify the overall process of designing a research study from its inception to its report. 3. Students should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research. 4. Students should know the primary characteristics of quantitative research and qualitative research. 5. Students should be able to identify a research problem stated in a study
	PY1543	Electronics	Describe the scientific principles that apply to the basic flow of electricity and explain the function of various materials used as conducting, semiconducting, and insulating devices in the construction of standard electrical/electronic circuits. Identify the basic tools and test equipment used to construct, troubleshoot, and maintain standard electronic circuits and systems. Explain the construction and application of standard circuit configurations and identify the component types and connections used to build functioning electronic circuits. Describe the appearance and general operating principles of multiple electronic components and electrical devices such as capacitors, resistors, inductors, semiconductors, integrated circuits (ICs), generators, motors, and transformers.

			Identify and describe the applied electronics principles used to develop circuitry and circuit-systems used for radio, television, fiber optic, laser, computer, and microprocessor devices.
	PY1544	Atomic & Molecular Physics	1. Master both experimental and theoretical working methods in atomic and molecular physics for making correct evaluations and judgments 2. Carry out experimental and theoretical studies on atoms and molecules, with focus on the structure and dynamics of atoms and molecules. 3. Account for theoretical models, terminology and working methods used in atomic and molecular physics
	PY1551.5.	Open Courses Energy Physics	Good understanding of renewable energy systems, its components and interactions between the components. This includes all renewable energy technologies, different storage technologies, distribution grid, smart grid including sensors. Regulation and control, and both "stand alone" systems and large integrated distribution systems.

Semester 6	PY 1641	Solid State Physics	Can explain crystal systems, Diffraction and Reciprocal space. 1.Defines Atomic packing, Crystal, Lattice, Unit cell and Translation vectors. 2.Explains Crystal systems, Crystal planes and directions, Miller indices, Diffraction of waves by crystals and Bragg's law. 3. Knows Reciprocal space, Reciprocal lattice, Construction of reciprocal lattice, Reciprocal lattice vectors and Diffraction condition. 4. Explains Reciprocal space and Laue equations and Brillouin zone. Can explain Free electron gas model and band models. 1.Explains Fermi free electron gas, Fermi-Dirac distribution and temperature. 2. Defines free electron gas in 3 dimensional. 3. Defines Energy bands, Bloch theory and Kronig-Penney model. Can explain Properties of semiconductors. 1.Defines semiconductor crystals. 2.Defines Direct and indirect band gap semiconductors. 3.Knows Effective mass and E-k relationship.
	PY 1642	Nuclear And Particle Physics	Understand the importance of models in describing the properties of nuclei and nuclear collisions, • Be able to make quantitative estimates of phenomena involving nuclei. Have a phenomenological understanding of strong interactions starting from QCD, Be familiar with many-body physics, Be able

			to make quantitative estimates for nuclear phenomena in relation to the underlying microscopic theory.
	PY1643	Classical And Modern Optics	Describe the optical principles of thick lenses and optical aberrations. 2. Use the principles of wave motion and superposition to explain the physics of polarisation, interference and diffraction. 3. Describe the operation of optical devices, including, polarisers, retarders, modulators and inteferometers. 4. Apply Fourier analysis to describe optical phenomena.
	PY1644	Digital Electronics And Computer Science	1.Develop a digital logic and apply it to solve real life problems. 2. Analyze, design and implement combinational logic circuits. 3. Classify different semiconductor memories. 4. Analyze, design and implement sequential logic circuits. 5. Analyze digital system design using PLD. 6. Simulate and implement combinational and sequential circuits using VHD L systems. Assemble the components of a PC and install one or more network operating systems resulting in a functioning 2. Design a small or medium sized computer network including media types, end devices, and interconnecting devices that meets a customer's specific needs. 3. Perform basic configurations on routers and Ethernet switches. 4. Demonstrate knowledge of programming for

			network communications
	PY1442	Basic Physics Lab 1	The laboratory should help students to understand the role of direct observation in physics and to distinguish between inferences based on theory and on the outcomes of experiments.
	PY1645	Advanced Physics Lab 2	Demonstrate experiments in modern physics. Explain experiments in modern physics. Connect each physical discovery with its history contents. Use computer in interpreting experiments results, drawing graph and statistics. Organize one of the laboratory experiments. Adopt manners according to safety rules in laboratory.
	PY1646	Advanced Physics Lab 3	Students have the ability to use common, introductory level laboratory measurement and test equipment.Students have the ability to build basic analog circuits and test electronic components.
	PY1661.2.	Space Science	Describe the features of objects in the Solar System (i.e. Sun, planets, moons, asteroids, comets, planetary interiors, atmospheres, etc.) giving details of similarities and differences between these objects; 2 detail the presently accepted formation theories of the solar system based upon observational and physical constraints; 3 detail changes which are observed when viewing the sky

			daily, weekly, monthly, annually and longer period of time and demonstrate an understanding of the reasons behind any observed changes; 4 demonstrate an understanding of the basic properties of the Sun and other stars; 5 explain stellar evolution, including red giants, supernovas, neutron stars, pulsars, white dwarfs and black holes, using evidence and presently accepted theories;

Course: M.Sc. Physics

Semester	Course Code	Course name	Outcomes
I	PH 211	Classical Mechanics	1. define and understand basic mechanical concepts related to discrete and continuous mechanical systems, 2. describe and understand the vibrations of discrete and continuous mechanical systems, 3. describe and understand planar and spatial motion of a rigid body, 4. describe and understand the motion of a mechanical system using Lagrange-Hamilton formalism.
	PH 212	Mathematical Physics	1. use complex analysis in solving physical problems; 2. solve ordinary and partial differential equations of second order that are common in the physical sciences; 3. use Green functions; 4. use the orthogonal polynomials and other special functions; 5. use Fourier series and integral transformation; 6. use the calculus of variations
	PH 213	Basic Electronics	Describe the scientific principles that apply e basic flow of electricity and explain the tion of various materials used as conducting, conducting, and insulating devices in the truction of standard electrical/electronic its. Identify the basic tools and test equipment o construct, troubleshoot, and maintain dard electronic circuits and systems.
	PH 251	General Physics Practicals	The laboratory should help students to rstand the role of direct observation in ics and to distinguish between inferences d on theory and on the outcomes of riments.

	PH 252	Electronics & Computer Science Practicals	Students have the ability to use common, ductory level laboratory measurement and equipment. Students have the ability to build c analog circuits and test electronic ponents
II	PH 221	Modern Optics & Electromagnetic theory	Describe the optical principles of thick es and optical aberrations. 2. Use the principles of wave motion and rposition to explain the physics of risation, interference and diffraction. 3. Describe the operation of optical devices, ding, polarisers, retarders, modulators and erometers. 4. Apply Fourier analysis to describe optical omena.
	PH 222	Thermodynamics, Statistical Physics & Basic Quantum Mechanics	.Identify and describe the statistical nature ncepts and laws in thermodynamics, in cular: entropy, temperature, chemical ntial, Free energies, partition functions. se the statistical physics methods, such as zmann distribution, Gibbs distribution, i-Dirac and Bose-Einstein distributions to e problems in some physical systems.
	PH 223	Computer Science & Numerical Techniques	Recognize the error in the number generated e solution. CO2. Compute solution of braic and transcendental equation by erical methods like Bisection method and ton Rapshon method. CO3. Apply method of polation and extrapolation for prediction. . Recognize elements and variable in stics and summarize qualitative and titative data. CO5. Calculate mean, median mode for individual series. CO6. Outline erties of correlation and compute Karl-son's coefficient of correlation.
	PH 251	General Physics Practicals	1. Demonstrate experiments in modern physics. 2. Explain experiments in modern physics. 3. Connect each physical discovery with

			its history contents. 4. Use computer in interpreting experiments results, drawing graph and statistics. 5. Organize one of the laboratory experiments. 6. Explain how ionising radiation effect on humans, its advantages and drawbacks. 7. Adopt manners according to safety rules in laboratory.
	PH 252	Electronics & Computer Science Practicals	Applythe knowledge of mathematics, ce, engineering fundamentals, and an neering specialization to the solution of plex engineering problems.
III	PH 231	Advanced ntum Mechanics	1. Describe the basic Hilbert space structures describing all quantum field theories, 2. Model physical systems using common approximation techniques for making dynamical calculations. 3. Discuss the difficulties with the theory of quantum measurement and local realism.
	PH 232	Advanced troscopy	Will be able to interpret UV-Visible troscopy, 1.1 Explain basic principles of UV- ble spectroscopy, 1.2. Explain relevant terms V-Visible spectroscopy, 1.3. Explain ing principle, taking spectra and outline of spectroscopy device, 2. Will be able to pret IR spectroscopy, 2.1. Explain basic ciples of IR spectroscopy, 2.2. Arrange ponents of IR spectroscopy device, 2.3. ain working principles and taking spectrum spectroscopy device, 3. Will be able to pret NMR spectroscopy, 3.1. Explain basic ciples of NMR spectroscopy, 3.2. Explain ple preparation procedure in NMR roscopy, 3.3. Explain working principles,

			g spectrum and outline of NMR troscopy device, 4. Will be able to interpret ental analysis technique, 4.1. Explain ing basic and using of elemental analysis ce, 4.2. Report results of C,H,O,S analysis in ple, 5. Will be able to interpret fluorescence roscopy, 5.1. Explain basic principles of escence spectroscopy, 5.2. Explain working ciples, taking spectrum and outline of escence spectroscopy device, 6. Will be able erpret atomic absorption spectroscopy, 6.1. ain basic principles of atomic absorption roscopy, 6.2. Explain the types of atomic rption spectrometer, 6.3. Explain working ciples, taking spectrum and outline of atomic
	PH 233 E	Special Paper I anced Electronics)	rption spectroscopy device, Understand the current voltage acteristics of semiconductor devices, 2. lyze dc circuits and relate ac models of conductor devices with their physical ration, 3. Design and analyze of electronic its, 4. Evaluate frequency response to
	PH 261	Advanced Physics	rstand behavior of Electronics circuits Students have the ability to successfully out an experimental procedure when given
	PH 262	Practicals Advanced tronics Practicals	ance and introductory level equipment. Identify, formulate, review research ature, and analyze complex engineering ems reaching substantiated conclusions g first principles of mathematics, natural ces, and engineering sciences.
IV	PH 241	Condensed Matter ics	Can explain crystal systems, Diffraction and procal space. 1.Defines Atomic packing, tal, Lattice, Unit cell and Translation vectors. plains Crystal systems, Crystal planes and tions, Miller indices, Diffraction of waves by als and Bragg's law. 3.Knows Reciprocal e, Reciprocal lattice, Construction of rocal lattice, Reciprocal lattice vectors and raction condition. 4. Explains Reciprocal e and Laue equations and Brillouin zone. Can explain Free electron gas model and models. 1.Explains Fermi free electron gas,i- Dirac distribution and temperature. 2.

			nes free electron gas in 3 dimensional. 3. nes Energy bands, Bloch theory and Kronig- ey model. Can explain Properties of semiconductors. fines semiconductor crystals. 2.Defines ct and indirect band gap semiconductors. ows Effective mass and E-k relationship.
	PH 242	Nuclear & Particle ics	Understand the importance of models in ribing the properties of nuclei and nuclear sions, • Be able to make quantitative ates of phenomena involving nuclei. Have a omenological understanding of strong actions starting from QCD, Be familiar with y-body physics, Be able to make quantitative ates for nuclear phenomena in relation to the rlying microscopic theory
	PH 243 E	Special Paper II (Advanced ronics)	Develop a digital logic and apply it to solve life problems. 2. Analyze, design and ement combinational logic circuits. 3. sify different semiconductor memories. 4. lyze, design and implement sequential logic its. 5. Analyze digital system design using . 6. Simulate and implement combinational sequential circuits using VHD L ms.Students will be able to explain principle peration for various sensors. 2. Students will ble to describe functional blocks of data sition system. 3. Students will be able to ransfer functions for given system. 4. ents will be able to calculate time domain frequency domain parameter for given system
	PH 261	Advanced Physics Practicals	The laboratory should help students to rstand the role of direct observation in ics and to distinguish between inferences d on theory and on the outcomes of riments.
	PH 262	Advanced tronics Practicals	Use computer in interpreting experiments lts, drawing graph and statistics. Organize of the laboratory experiments. Adopt ners according to safety rules in ratory.Apply time and frequency concepts of ysis. 4. Understand various functions of ork and also the stability of network. 5. n the various parameters and their relationship, able to solve numericals with

		s, cascade, parallel connection using two port meters. 6. Synthesize the network using ive elements
PH 201	Project	

THE OUTCOMES OF THE COURSES OFFERED BY THE

DEPARTMENT OF SANSKRIT

Course: Sub and Second Language

SEMESTER	COURSE CODE	COURSE NAME	OUTCOME
Sem I	Language Course II SK.1111.1	Drama and Prose	To understand simple prose style in Sanskrit literature and Dramatic forms of Sanskrit literature.
	Comp.Course I SK.1131.2	Poetry and Grammar	To make awareness about the simple style of Kavya literature of a Kerala Sanskrit poet and to stimulate the students' humanistic outlook on life.
Sem II	Language Course SK.1211.1	Epic and Stotra Kavya	Make aware about Epic, Stotra Kavya literature and Indian Culture and Tradition. To articulate the ideas of keeping morality in life.
	Comp.Course II SK.1231.2	Prose and Drama	Make awareness about the dramatic literature and style of Bhasa, improve students' vocabulary for better reading and writing, understand the ideas of ancient Indian stories for the betterment of life.
Sem III	Language Course VII SK.1311.1	Mahakavya and Drama	Make awareness about the Mahakavya style and dramatic style of MahakaviKalidasa and

Outcomes of the Courses Offered by the Department of Zoology

Course: BSc Zoology

Core Zoology				
Semester I	ZO 1141	Animal Diversity I	Provide an in-depth knowledge of Nonchordates	
Semester II	ZO 1241	Animal Diversity II	Provide knowledge about structure and habits of Chordates	
	Semester	**Course Code**	**Course Name**	**Course Outcom**
Semester III	ZO 1341	Methodology and Perspectives of Zoology	To introduce the methodology and perspectives of science and enabled the students to pursue zoology in relation to other disciplines	
Semester IV	ZO1441	Ecology, Habitat destruction and disaster management	Students get basic knowledge of ecosystem functioning, awareness of anthropogenic pressures on ecosystem and create awareness about disaster and prevention measures	
	ZO1541	Cell and Molecular Biology	Students acquire sufficient knowledge on the fundamentals of cell biology, molecular biology, gene manipulation and cancer and Ageing	
Semester V	ZO 1542	Genetics and Biotechnology	Students get educated on Genetic mechanism and the art of bio-techniques. To understand the principles and techniques of DNA, PCR, Gene Therapy and Human Cloning	
	ZO 1543	Immunology and Microbiology	To understand the scope and importance of clinical immunology and history and importance of microbiology	
	ZO 1551.3	Human diseases and their Management	To give knowledge to the students about the need to manage the communicable disease thereby creating a healthy society	
	ZO 1641	Physiology and Biochemistry	Students develop clear understanding about correlation and cordination of Organ systems of the body and functions of Biomolecules	
Semester VI				

	ZO 1642	Developmental Biology and Experimental	Students get an idea about history and procedures of developmental biology and they can procure information of

		Embryology	experimental embryology and the control mechanism of development
	ZO 1643	Ethology, Evolution and Zoogeography	To enhance students concept of organic evolution and the physiological basis of behaviour and also acquire knowledge on the distribution of animals in the biosphere
	ZO 1651.1	Economic Zoology-Vermiculture and Apiculture	It offers self-employment and self-reliance among students
Practical I	ZO 1442	Animal Diversity I and Animal Diversity II	Students get familiarized with various simple dissections and mountings, emphasize the adage that seeing is believing by observing typical examples, learn the working principles of various instruments
Practical II	ZO 1644	Cell Biology , Genetics and Bioinformatics	To expertise the students to carry out routine haematological and microbiological techniques, to gain broad knowledge on conventional biotechnological procedures
Practical III	ZO 1645	Physiology and Biological Chemistry, Molecular Biology and Biostatistics	To demonstrate basic principles in physiology, to make the students skilful in simple biochemical laboratory procedures
Practical IV	ZO 1646	Developmental Biology, Ecology, Ethology, Evolution and Zoogeography	Students get an idea about history and procedures of developmental biology, Students get basic knowledge of various physic-chemical factors influencing the ecosystem, they got an idea about different zoogeographical realms with fauna
Zoology Project and Field study	ZO 1647		To develop an aptitude for research and to inculcate proficiency to identify appropriate research topic and presentation
Complementary Zoology			
Semester I	ZO 1131	Animal Diversity I	Provide an in-depth knowledge of Nonchordates
Semester II	ZO 1231	Animal Diversity II	Provide knowledge about structure and habits of Chordates

Semester III	ZO 1331	Functional Zoology	To familiarize students on the physiology of their own body and urge them to take precautionary measures to safeguard their health
Semester IV	ZO 1431	Applied Zoology	To introduce the methodology and perspectives of applied branches of zoology with a view of educating youngsters on the possibilities of self-employment
Practical I	ZO 1432	Animal Diversity I and Animal Diversity II, Functional Zoology, Applied Zoology	To provide hands on training experience through simple dissections and mountings, emphasize the adage that seeing is believing by observing typical examples and economically important specimens

Semester III	ZO 1331	Functional Zoology	To familiarize students on the physiology of their own body and urge them to take precautionary measures to safeguard their health
Semester IV	ZO 1431	Applied Zoology	To introduce the methodology and perspectives of applied branches of zoology with a view of educating youngsters on the possibilities of self-employment
Practical I	ZO 1432	Animal Diversity I and Animal Diversity II, Functional Zoology, Applied Zoology	To provide hands on training experience through simple dissections and mountings, emphasize the adage that seeing is believing by observing typical examples and economically important specimens

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MCOM INTERNATIONAL TRADE

PROGRAMME SPECIFIC OUTCOME AND COURSE OUTCOME

Programme Specific Outcomes (PSO) for M.com International Trade

• PSO 1-Understand the procedures of international trade and evaluate the implications of international trade

• PSO 2-Understand the legal procedure and regulations of international trade, Intellectual Property Rights, patent and copyrights

• PSO 3-Understand and recognize the importance of cross-cultural Business communication in the International Trade practices

• PSO 4-Acquire Knowledge of statistical concepts and analyze international trade related data set and Skill in the application of procedures for statistical inference

• PSO 5-Acquire the knowledge and skill required to conduct a focused research relating to international trade related problems

• PSO 6-Acquire the knowledge and skills relating to the hedging of international risks and risk management tools

• PSO7-Understand the status of the present international taxation proceedings and applications in international trade

Course Outcomes for M.com International Trade

SEMESTER I CO T 511- Course I: INTERNATIONAL BUSINESS

Course Outcomes

1. CO 1. Understand the concept of International Business and International Business Environment
2. CO 2. Understand different theories of International Business.
3. CO 3. Understand the legal procedures involved in International Business.
4. CO 4. Recognize the different types of economic integrations.
5. CO 5. Understand and analyze the operations of MNCs through real case assessment.

SEMESTER I Course IV: CO T 514- FINANCIAL REPORTING STANDARDS AND ADVANCED CORPORATE ACCOUNTING

Course Outcomes

1. CO1: Understand the trade related Accounting Standards and their application
2. CO2: Understand and Recognize the convergence of IFRS and Ind AS
3. CO3: Acquire the Skill for preparing Financial Statements by applying relevant Accounting Standards CO4: Understand and Apply the knowledge in accounting for Amalgamation
4. CO5: Understand and do Accounting for Liquidation of Companies.

SEMESTER I CO T 512 - Course II: RESEARCH METHODOLOGY

Course Outcomes

1. CO 1. Understand the concept and process of research
2. CO 2. Apply the research process for preparation of research design
3. CO 3. Understand the sampling design in research
4. CO 4. Apply appropriate tools for data collection
5. CO 5. Apply statistical tools for data analysis and evaluating the results

SEMESTER I Course IV: CO T 514- FINANCIAL REPORTING STANDARDS AND ADVANCED CORPORATE ACCOUNTING

Course Outcomes

1. CO1: Understand the trade related Accounting Standards and their application
2. CO2: Understand and Recognize the convergence of IFRS and Ind AS
3. CO3: Acquire the Skill for preparing Financial Statements by applying relevant Accounting Standards CO4: Understand and Apply the knowledge in accounting for Amalgamation
4. CO5: Understand and do Accounting for Liquidation of Companies.

SEMESTER I CO T 515- Course V: ECONOMIC PRINCIPLES FOR INTERNATIONAL TRADE COURSE OUTCOMES

On completion of the course, students should be able to:

1. CO 1: Understand the basics of Macroeconomics
2. CO 2: Understand relevant trade theories
3. CO 3: Evaluate existing trade and non-trade barriers of international trade.
4. CO 4: Understand the approaches to management of balance of payment
5. CO 5: Evaluate India's foreign trade status

SEMESTER II Course I: CO T 521- E-BUSINESS & CYBER LAWS

Course Outcome

1. CO1- Understand the emerging trends in the e commerce business and its new technological challenges
2. CO2- Understand the new marketing innovations which is essentially required to conduct the e business in international level
3. CO3- Understand the supply chain management of international trade and business
4. CO 4- Understand the laws governing cyber laws and regulations in e commence relating to international trade, patents and copy rights
5. CO5- Understand the relevant provisions of IT Act relating to cybercrimes and punishments

SEMESTER II CO T 522- Course II: INTERNATIONAL ADVERTISING

Course Outcomes

1. CO 1. Understand the concept, relevance and response structure of marketing communication.
2. CO 2. Identify an apt media for advertisement by comparing various factor related to it.
3. CO 3. Select an appropriate agency for advertisement by analyzing various factors affecting the selection process.
4. CO 4. Understand the concept of Integrated Marketing Communication and relevance of Promotion in marketing.
5. CO 5. Understand the recent trends in International Marketing.

SEMESTER II CO T 523 -Course III: CROSS- CULTURAL BUSINESS COMMUNICATION

Course Outcomes

1. CO1: Understand the fundamentals of business communication
2. CO2: Understand and recognize the basic skills needed for business communication
3. CO3: Understand the basic principles of cross-cultural communication
4. CO4: Understand and evaluate the conflicts in inter-cultural communication
5. CO5: Recognize different factors influencing intercultural communication

SEMESTER II CO T 524 -Course IV: QUANTITATIVE TECHNIQUES AND FINANCIAL ECONOMETRICS COURSE OUTCOMES

1. CO1: Understand the basic concepts of probability theory and analyze the different Probability distributions
2. CO2: Understand and apply sampling concepts and procedures
3. CO3: Apply hypothesis testing procedure and evaluate the outcome

4. CO4: Understand the basics of Econometrics
5. CO5: Understand and Acquire the skill in conducting analysis

SEMESTER II Course V: CO T 525- INTERNATIONAL FINANCIAL MANAGEMENT

Course outcomes

1. CO1: Understand the basic concepts of International Finance and recognize the international financial markets.
2. CO2: Understand the fundamentals of foreign exchange rates and their determination
3. CO3: Explain the working of foreign exchange market and the international agencies.
4. CO4: Understand the various instruments in International financial market and identify the features. CO5: Analyze the implications of global investment in the form of FDI and FII

SEMESTER III CO T 531 -COURSE I: INTERNATIONAL TAXATION

Course outcomes

1. CO 1: Understand the provisions of transfer pricing under Income Tax Act, 1961
2. CO 2: Understand the provisions relating to international transactions and non-resident taxation under the Income Tax Act, 1961
3. CO 3: Understand the law and procedures under the Black Money (Undisclosed Foreign Income and Assets) and Imposition of Tax Act, 2015.
4. CO 4: Understand and apply the method for application of taxation of E-commerce transactions and tax treaties and to have knowledge of the methods for interpretation of tax treaties.
5. CO 5: Understand and evaluate the role of anti-avoidance provisions.
6. CO 6: Understand and analyses the tax convention models.

SEMESTER III CO T 532: Course II: - INTERNATIONAL TRADE AND DOCUMENTATION COURSE OUTCOMES

On completion of the course, students should be able to:

1. CO 1: Understand the concept of financial risk and the role of derivatives in risk management
2. CO 2: Understand various theories in Exchange Rate fixation
3. CO 3: Evaluate different types of currency derivatives
4. CO 4: Understand the different types of forex risk and recognize various risk management avenues CO 5: Understand the basics of forex risk management in India
5. CO 6: Analyse the foreign investment management in the changed scenario

SEMESTER III Course III: CO T 533- MANAGEMENT OF INTELLECTUAL PROPERTY RIGHTS

Course Outcomes

1. CO1-Understand the historical perspectives of IPR law, World Intellectual Property organization, TRPS and TRIMS
2. CO 2- Understand in detail the forms of IPR and their relative importance in International trade
3. CO3- Understand the IPR regulations and legislations in India
4. CO-4 Understand the procedure of registrations of IPR in India
5. CO5- Understand the procedure of commercialization of IPR
6. CO6- Understand the procedure of intellectual property valuation and audit

SEMESTER III CO T 534- Course IV: FOREX MANAGEMENT COURSE OUTCOMES

On completion of the course, students should be able to:

1. CO 1: Understand the concept of financial risk and the role of derivatives in risk management
2. CO 2: Understand various theories in Exchange Rate fixation
3. CO 3: Evaluate different types of currency derivatives
4. CO 4: Understand the different types of forex risk and recognize various risk management avenues CO 5: Understand the basics of forex risk management in India
5. CO 6: Analyse the foreign investment management in the changed scenario

SEMESTER IV Course I: CO T 541- LOGISTICS AND SUPPLY CHAIN MANAGEMENT COURSE OUTCOMES

On completion of the course, students should be able to:

1. CO1: Explain the international supply chain and various types of logistics in Global trade.
2. CO2: Understand significance of transportation and transportation management.
3. CO3: Understand and Recognize the need and types of inventory control.
4. CO4: Understand and Recognize the need of warehousing
5. CO5: Understand the need and importance of material handling.
6. CO6: Understand the relevance of order processing and its factors.

SEMESTER IV Course II: CO T 542- GLOBAL STRATEGIC MANAGEMENT

Course Outcomes

1. CO1- Understand the strategic management approaches of MNC's in the world

2. CO2- Understand the concept of International Product Life Cycle
3. CO3- Understand the different types of strategies to manage a global enterprise
4. CO4- Apply the skill and knowledge of strategic management to face the international competition CO5- Understand and evaluate the process of strategy implementation and control in global business
5. CO6- Understand the process of Strategy evaluations and integration of subsidiaries

SEMESTER IV CO T 543- Course III: LEGAL FRAMEWORK FOR INTERNATIONAL TRADE

Course Outcomes

1. CO1-Understand the origin and source of international law
2. CO2- Understand and apply the arbitration rules and regulations
3. CO3-Understand obligations of the buyer& seller, common provisions and rules concerning damages CO4- Understand the provisions of patent applications and further formalities
4. CO5- Understand and evaluate the trade and merchandise regulations including the licensing of trademarks
5. CO6- Understand and evaluate the Functions of RBI over transactions in foreign exchange andRestriction on capital account and current account transactions

SEMESTER IV Course IV: CO T 544- MANAGEMENT OPTIMIZATION TECHNIQUES

Course Outcomes

1. CO1: Understand the nature and importance of modeling techniques in business
2. CO2: Apply Programming models and Evaluate the outcomes
3. CO3: Solve the transportation and assignment problems
4. CO4: Apply Decision making models and Evaluate the outcome
5. CO5: Apply Project Scheduling techniques for Optimal scheduling of Projects
6. CO6: Apply Replacement models for Decision making regarding equipment's