### COURSE OUTCOMES FOR UNDERGRADUATE PROGRAMMES

#### **COMMON COURSE – ENGLISH**

Name of the Programme	Course Code	Course Title		Course Outcomes
			SEMI	ESTER 1
BA BSc BCom	EN1CC01	Fine-tune Your English	CO1	To confidently use English in both written and spoken forms CO2  To use English for formal communication
				effectively
BA BSc	EN1CC02	Pearls from the Deep	CO1	To introduce students to the different genres of literature and to the niceties of literary Expression  To appreciate and enjoy works of literature.
	LIVICC02		CO3	To appreciate the aesthetic and structural elements of literature
			SEMI	ESTER 2
BA BSc	EN2CC03	Issues that Matter	CO1	To sensitize the learners to contemporary issues of concern.
BCom			CO2	To identify the major issues of contemporary significance.
			CO3	To respond rationally and positively to the issues raised.
			SEMI	ESTER 3
BA BSc	EN3CC05	Literature and/ as Identity	CO1	To sensitize students to the various ways in which literature serves as a platform for forming, consolidating, critiquing and reworking the issue of identity at various levels.
			CO2	To introduce the subtle negotiations of Indigenous and Diasporic identities with-in Literature.
			CO3	To give an idea of the fissures, the tensions and the interstices present in South Asian regional identities
BCom	EN3CC07	Gems of Imagination	CO1	To introduce students to the different genres of literature and to the niceties of literary Expression
			CO2	To appreciate and enjoy works of literature.
			CO3	To appreciate the aesthetic and structural elements of literature
			SEMI	ESTER 4
BA BSc	EN4CC06	Illuminations	CO1	To acquaint the learners with different forms of inspiring and motivating literature.
			CO2	To evaluate and overcome setbacks based on the insights that these texts provide.
B Com	EN4CC08	Revisiting the Classics	CO1	To introduce the students to the taste of time-tested world classics
			CO2	To make the students familiar with the classics from various lands.

#### **SECOND LANGUAGES**

Name of the Programme	Course Code	Course Title		Course Outcomes
		SEMEST	ER 1 M	IALAYALAM
BA		Katha	CO1	Recognize general awareness in literature
BSc	ML1CCT01	Sahithyam	CO2	Appreciate importance of literature and life To sensitize aspects in Malayalam
BCom	ML1CCT05	Kathayum	CO1	General awareness about Malayalam literature
		Kavithayum	CO2	Introducing new common trends in Malayalam literature
BSc	ML1CCT09	Katha	CO1	General awareness about Malayalam literature
Physics (Model 2)		Kavitha	CO2	Introducing new common trends in Malayalam literature
	1	SEM	ESTER	R 1 HINDI
BA BSc	HN1CCT01	Prose and One Act Play.	CO1	To develop student's competence with reference to Hindi language and literature.  To give an authentic knowledge about the
		-		development of literature.
BCom	HN1CCT01	Prose and Mass Media	CO1	To make familiar with the Students, the literary form of essays.
			CO2	To understand the principles and assumptions governing modern linguistic.
			CO3	To promote eminent Hindi scholars and encourage them to write and translate relevant works in Hindi.
		SEMEST	ER 2 N	IALAYALAM
BA	A		CO1	General awareness in poetry and to identify new
BSc	ML2CCT02		~~^	trends in poetry.
			CO2	Appreciate importance of literature and life To sensitize aspects in Malayalam
BCom	ML2CCT06	Athmakatha,	CO1	Realize Aesthetic power of prose in Malayalam.
Beom	WEZCCTOO	Lekhanam		Introducing awareness about creativity in Malayalam Literature.
		SEM	ESTER	R 2 HINDI
BA BSc	HN2CCT02	Hindi Novel and Stories	CO1	To develop student's competence with reference to Hindi language and literature.
			CO2	To make students familiar with novel and stories.
BCom	HN2 CCT02	Poetry,	CO1	To make the students familiar with ancient and
		Commercial		modern Culture.
		Corresponde	CO2	To give an authentic knowledge about the
		nce and Translation		development of literature.
		Translation		To know about the culture of our country through the famous works of the poets.
		SEMEST	ER 3 M	IALAYALAM
BA	ML1C CT05	Drisyakala	CO1	Familiarized more about Drisyakala Sahithyam
BSc		sahithyam	CO2	Understood other art forms like Cinima
			CO3	Created an awareness of Kerala Culture

		SEM	ESTER	R 3 HINDI
BA BSc	HN3CCT03	Poetry Grammar and	CO1	To make the students familiar with ancient and Modern Culture
		Translation	CO2	To understand the principles and assumptions governing modern linguistic.
		SEMEST	ER 4 M	IALAYALAM
BA BSc	ML4CCT04	Malayala Gadhya	CO1	Created an awareness of Malayala GadhyaSahithyam
		Rachanakal	CO2	Familiarized with Malayalam writers and their Writings
			CO3	Understood various trends in Malayalam Literature & Culture
		SEM	ESTER	R 4 HINDI
BA	HN4CCT04	Drama &	CO1	Familiarized the students with Hindi language
BSc		Long Poems	CO2	Familiarized the students with various trends in Hindi Drama & Poetry
			CO3	Created an awareness of Indian Culture & Heritage

## CORE COURSES OF B. A. ECONOMICS

Course Code	Course Title		Course Outcomes
			SEMESTER 1
EC1CRT 01	Perspectives	CO1	It identifies the main concerns of social science disciplines
	and Methodology of Economics	CO2	It articulates the basic terminology and theories prevalent across various disciplines.
		CO3	It helps to understand qualitative and quantitative models within the social sciences, especially Economics
			SEMESTER 2
EC2CRT 02	Micro Economic	CO1	It gives the foundation for economic analysis and problem solving.
	Analysis 1	CO2	It introduces a framework for learning about consumer behaviour and analyzing consumer decisions.
		CO3	It provides an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.
			SEMESTER 3
EC3CRT 03	Micro Economic	CO1	This course is designed to provide basic understanding of micro economic concepts.
	Analysis- II	CO2	Students are provided with the working and performance of firms in the market.
		CO3	It deals with behavior of economic agents – consumer, producer, factor owner – price fluctuations in the market.
EC3CRT 04	Economics of Growth & Development	CO1	This courser enables the students to understand the theories and strategies of growth and development.
	Development	CO2	It imparts knowledge about the issues relating to sustainable development, environmental protection and pollution control measures.
		CO3	IT makes the students more insightful about modern approaches to development.
			SEMESTER 4
EC4CRT 05	Macro Economics 1	CO1	This paper provides the students the information regarding the theory of cost, market performance and welfare economics.
		CO2	This course also makes a picture regarding the cost analysis which seems to be integral to their life
		CO3	It also aids the students to know more about the theoretical background of market structure
EC4CRT 06	Public Economics	CO1	The purpose of this course is to give an understanding of the role of state in fostering the economic activities via budget and fiscal policies.
		CO2	Students get a chance to know about the financial position of the country.
		CO3	This course enables the students to understand the various issues between Central and State Governments.

	SEMESTER 5					
EC5CRT0 8	Macro Economics II	CO1	This course is designed to make the students aware of the theoretical aspects of Macroeconomics.			
		CO2	It helps the students to think issues which are a nature of economy as a whole.			
EC5CRT0 9	Environmental Economics	CO1	This course imparts an awareness regarding the issues like environment conservation and climate change			
		CO2	It also emphasizes the need of environmental protection and its role in economic development.			
EC5CRT 10	Introductory	CO1	It introduces various concepts and application of econometrics.			
	Econometrics	CO2	It helps the students to know the interrelationship between econometric variables.			
		CO3	It also provides an access to mathematical and econometric methods which are employed for economic measurement.			
	SEMESTER 6					
EC6CRT 12	International Economics	CO1	The objective of this course is to arrive at an understanding of theories of international trade			
		CO2	It examines the impact of the trade policies on the world economy.			
		CO3	It helps the students to know about the recent trade relations of the country.			
EC6CRT 13	Money & Financial	CO1	The present course is designed to acquaint the students with the changing role of the financial sector of the economy.			
	markets	CO2	It introduces the students the functioning of stock markets in India			
		CO3	The stake-holders are to familiarize with the basic concepts, the financial institutions and markets.			
EC6CRT 14	Indian Economy	CO1	The objective of the course is to equip the students with the theoretical, empirical			
		CO2	This course discusses the policy issues relating to the society, polity and economy of India.			
		CO3	It also highlights the recent economic problems which are crucial for the growth of economy.			

## CORE COURSES OF B. A. HISTORY

Course Code	Course Title	Course Outcomes		
			SEMESTER 1	
HY1CRT01	Methodology and Perspectives	CO1	Identify the main concerns of Social Science disciplines.	
	of Social Sciences-History	CO2	Understand qualitative and quantitative models with in the Social Sciences	
		CO3	Critically read popular and periodical literature from a Social Science perspective.	
			SEMESTER 2	
HY2CRT02	Understanding Early India: From Hunting Gatherers to Land Grants	CO1	An idea about the life of man and the evolution process of different institutions in early India	
			SEMESTER 3	
HY3CRT03	Polity, Society and Economy in Pre-Colonial India	CO1	Creates an awareness about the socio-economic- political and cultural life of medieval India	
HY3CRT04	Cultural Trends in Pre-Colonial Kerala	CO1	Creates knowledge about colonial relations and maritime trade.	
			SEMESTER 4	
HY4CRT05	Making of Modern Kerala	CO1	Imbibe an awareness about freedom struggle of Kerala, origin of Marxist ideologies, nationalism, unification of Kerala and role of people in the freedom struggle	
HY4CRT06	Researching the Past	CO1	Develops historical perspectives and inspire the student to make their own understanding of various schools of historiography and inspire them to create their own perspectives that enables them to anchor in an area of research	
			SEMESTER 5	
HY5CRT07	Inheritance and Departures in Historiography	CO1	Gain knowledge about the perspectives of past that evolved and to grasp why history came to be rewritten differently from time to time and under what conceptual presuppositions.	
HY5CRT08	India: Nation in the Making	CO1	Emphasis on the study of the struggle for independence in India.	
HY5CRT09	State and Society in Ancient and Medieval world	CO1	It enable the students to develop a deep understanding of evolution of human civilization down the ages that is from the pre- historic to the present times. This course explores the various aspects of ancient societies and its character features in a historical perspective. Throughout the duration of the course the students get to know about the global major historical events and got knowledge and culture and also society, power, religion, economy are also mentioned very specific level.	
HY5CRT10	Environmental Studies and Human Rights in Historical Outline	CO1	To understand about various aspects, concepts, issues and movements related to the growth of environmental studies and environmental history of India.  To learn about various environmental impacts and climate	
	Junine		changes	

			SEMESTER 6
HY6CRT11	Making of	CO1	To analyse and examine the emergence of Modern India.
	Contemporary India	CO2	To generate a healthy nationalist feeling.
		CO3	To make students aware about the political, though, economic and social situation of contemporary India
HY6CRT12	Understanding Modern World	CO1	To learn about the various political, social and economic aspects of contemporary world.
		CO2	To provide good awareness about the major social revolutions of the modern world
HY6CRT13	Capitalism and	CO1	To learn about the expansion of colonies across the world.
	Colonialism	CO2	To study about various theories related to Marxism, Capitalism and Colonialism
HY6CRT14	Gender in Indian Perspectives	CO1	To introduce the area of gender studies to graduate students and to explain the socio-historical constructions of sexual differences in Indian society by emphasizing the plural backgrounds.
		CO2	To prepare students to challenge the conventional social norms about male-female dichotomy and to conceive biological realities and natural but as always conditioned through social norms, moral codes and historical process.

### CORE COURSES OF B. Sc. BOTANY

Course Code	Course Title		Course Outcomes
			SEMESTER 1
BO1CRT 01	Methodology of science and	CO1	To acquire fundamental knowledge in plant science and diversity of plants.
	introduction to Botany	CO2	To understand the universal nature of science and demonstrate the use of scientific method.
		CO3	To develop basic skills to study Botany in detail.
			SEMESTER 2
BO2CRT 02	Microbiology, Mycology and Plant Pathology	CO1	To understand the world of microbes, fungi and lichens and the mechanism of various physiological processes related to plant life.
		CO2	To study the pathological importance of microorganisms
		CO3	To enable the students to identify and culture different types of microbes.
			SEMESTER 3
BO3CRT 03	Phycology and Bryology	CO1	To make the students understand objectives and components of taxonomy
		CO2	To study the evolutionary importance of algae and understand the unique features of algae and bryophytes.
		CO3	To realize the applications of Phycology in different fields.
			SEMESTER 4
BO4CRT 04	Pteridology, Gymnosperms	CO1	To understand the different plant organs with their functions.
	and Paleobotany	CO2	To enhance the botanical knowledge on Paleobotany.
		CO3	To study the anatomical variations in vascular plants
	T		SEMESTER 5
BO5CRT 05	Anatomy, Rep. Botany and	CO1	To study the internal structure of evolved group of plants.
	Microtechnique	CO2	To understand the individual cells and also tissues.
		CO3	To understand the morphology and development of reproductive parts and to get an insight into the fruit and seed development
BO5CRT 06	Research Methodology,	CO1	Equip the students to conduct research and prepare research report.
	Biophysics and Biostatistics	CO2	To make the students understand the different tools and techniques used in research.
BO5CRT 07	Plant Physiology	CO1	To acquire the basic knowledge of plant functioning.
	and Biochemistry	CO2	To understand the basic skills and techniques related to plant physiology.
		CO3	CO3 To understand the role of biomolecules in plant life.
BO5CRT 08	Environmental	CO1	To understand the significance of environmental science.
	science and Human rights	CO2	To make the students aware about the extent of the total biodiversity.
		CO3	To enable the students to understand the structure and
			function of ecosystem and make the students aware about various human right laws in the world

			SEMESTER 6
BO6CRT 09	Genetics, Plant Breeding and Horticulture	CO1	To understand the principles of heredity and the patterns of inheritance in different organisms.
	Horticultule	CO2	Understand the methods of crop improvement.
		CO3	To develop skills in gardening techniques in students
BO6CRT 10	Cell and	CO1	To understand the ultrastructure and functioning of cells.
	molecular Biology	CO2	To understand the basic and scientific aspects of diversity.
		CO3	To understand DNA as the basis of heredity and variation.
BO6CRT 11	Ang morphology, Taxonomy and Eco Botany	CO1	To understand the aims, objectives and significance of Taxonomy. and identify the common species of plants growing in Kerala.
		CO2	To understand the basic techniques in the preparation of herbarium.
		CO3	Familiarize the plants having immense economic importance.
BO6CRT 12	Bio-technology and Bio-	CO1	Understand the current developments in the field of Biotechnology.
	informatics	CO2	Introduce the vast repositories of Biological data knowledge.
		CO3	To equip the students to access and analyze data available in databases.

## **CORE COURSES OF B. Sc. CHEMISTRY**

Course Code	Course Title	Course Outcomes		
	<u> </u>		SEMESTER 1	
CH1CR T01	General and Analytical	CO1	This part of the syllabus will impart an interest in studying chemistry	
	Chemistry	CO2	students are getting more ideas about theoretical and experimental Chemistry	
		CO3	Students can apply these skills in the analysis of experimental data in chemistry practical and further for jobs.	
		1	SEMESTER 2	
CH2CR T02	Theoretical and Inorganic	CO1	By studying this part of the syllabus students are getting basic ideas of chemistry, which enables them to build a better foundation	
	Chemistry	CO2	The course aims to inculcate an atomic/molecular level thinking in the minds of the students	
		CO3	It also develops an interest in various branches of inorganic chemistry.	
		1	SEMESTER 3	
CH2CR T03	Organic Chemistry-1	CO1	It gives an idea about the fundamental aspects: structure, reaction dynamics and synthesis of organic molecules	
		T	SEMESTER 4	
CH4CR T04	Organic Chemistry-II	CO1	students are getting thorough knowledge about the chemistry of some selected functional groups with a view to develop proper aptitude towards the study of organic compounds and their reactions.	
			SEMESTER 5	
CH5CR T05	Environment,	CO1	Students will possess the intellectual flexibility necessary to view	
	Ecology and Human rights		environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding.	
		CO2	Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy	
		CO3	When encountering environmental problems students will assess necessary scientific concepts and data, consider likely social dynamics, and establish integral cultural contexts.	
CH5CR T06	CH5CR T06 Organic	CO1	This part of the syllabus gives the idea of prediction of mechanisms for organic reactions	
	Chemistry - III	CO2	How to use their understanding of organic mechanisms to predict the outcome of reactions	
		CO3	How to design syntheses of organic molecules and how to determine the structure of organic molecules using IR and NMR spectroscopic techniques	
CH5CR T07	Physical Chemistry-I	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics	
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.	
CH5CR T08	Physical Chemistry-II	CO1	The objective of this academic plan is to make the concepts and methods of physical chemistry clear and interesting to students, who have basic ideas in mathematics and physics	
		CO2	The underlying theory of chemical phenomena is completed, and so it is a challenge to make the most important concepts and methods understandable to undergraduate students.	

			SEMESTER 6
CH6CR T09	Inorganic Chemistry	CO1	An undergraduate chemistry student should gain perspective on the past, without compromising the modern developments.
		CO2	A student is expected to be conversant with the chemistry of all the elements and has been closely allied with analytical chemistry, with physical chemistry and even with organic chemistry
CH6CR T10	Organic Chemistry-	CO1	This deals with biological aspects of chemistry, which help students to understand medicinal chemistry, useful in daily life
	IV	CO2	By studying the details of Natural products students can get the job of chemist in medicinal companies
CH6CR T11	Physical Chemistry- III	CO1	The syllabus covers Thermodynamics, Equilibrium and Kinetics, three important topics in chemistry, which will help students to get foundation for further studies
		CO2	The main advantage of the syllabus is that students are getting enough information about the speed and energy requirements for chemical reactions.
CH6CR T12	Physical Chemistry -	CO1	In this course students are gathering information about Solution Chemistry
	IV	CO2	Students gets an idea about the reactions that takes place in solutions, which are beyond their imagination.

### **CORE COURSES OF B. Sc. MATHEMATICS**

<b>Course Code</b>	Course Title	Course Outcomes		
			SEMESTER 1	
MM1CR T01	Foundations of Mathematics	CO1 CO2	Familiarize mathematical terminologies and symbols, notations, propositional logic, equivalences etc.  Develop standard methods of proofs and learn methods to solve equations, transformed equations, cubic, bi-quadratic and reciprocal equations.  Relate factor theorem and remainder theorem.	
		1000	SEMESTER 2	
MM2CR T01	Analytic Geometry, Trigonometry and Differential Calculus	CO1 CO2	Find the equation to tangent, normal at a point on a conic.  Find the polar equation of a line, circle, tangent and normal to conics.  Familiarize real and imaginary parts of a circular and hyperbolic functions of a complex variable and familiarize successive differentiation and indeterminate forms.	
			SEMESTER 3	
MM3CR T01	Calculus	CO1 CO2 CO3	Find the higher order derivative of the product of two functions.  Expand a function using Taylor's and Maclaurin's series.  Conceive the concepts of convexity, envelopes, asymptotes and learn about partial derivatives and its applications.	
			SEMESTER 4	
MM4CR T01	Vector Calculus, Theory of Numbers and Laplace Transform	CO1 CO2 CO3	Acquaint with the concept of vector valued functions and its curvature, torsion, directional derivatives.  Extend the tools of integral calculus to vector valued functions.  Apply Greens Theorem, Stokes Theorem, Gauss divergence theorem for evaluation of line, surface and volume integrals and get familiarize with the Number system and related concepts.	
			SEMESTER 5	
MM5CR T01	Mathematical Analysis	CO1	The learner understands the structure and properties of the real number system and Study the basic topological properties of the real numbers.  Have the knowledge of the sequence of real numbers and convergence.	
		CO3	The student will be able to construct rigorous mathematical proofs of basic results in real analysis.	
MM5CR T02	Differential Equations	CO1 CO2	Recognize and solve separable, exact, homogeneous and non-homogeneous ordinary differential equations.  Convert certain types of differential equations to exact form by using integrating factors  Solve second order ordinary differential equations and use power	
MM5CR T03	Abstract Algebra	CO1 CO2 CO3 CO4	series method to solve differential equations.  Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals etc.  Know how to construct new groups by taking quotients and direct products  Prove classical theorems like Lagrange's theorem and Cayley's theorem.  Learn how to relate different algebraic objects by homomorphisms and isomorphisms	

MM5CR T08	Human Rights and Mathematics for Environmental Studies	CO1 CO2 CO3	Address complex environmental issues, and take necessary steps to keep our environment healthy and sustainable for the future Have a brief idea of Fibonacci numbers and Golden ratio  Learn the idea of Human Rights and study its importance
			SEMESTER 6
MM6CR T01	Real Analysis	CO1	Have the knowledge of the series of real numbers and convergence.
		CO2	Determine the Riemann integrability of a bounded function and establish properties of integrable functions.
		CO3	Recognize the difference between point-wise and uniform convergence of sequences and series of functions.
		CO4	Develop a higher level of mathematical maturity combined with the ability to think analytically.
MM6CR T02	Graph Theory and Metric Spaces	CO1	Write precise and accurate mathematical definitions of objects in Graph theory and analyze different properties that depend on the connectivity of a graph
	1	CO2	Understand Euclidean distance and generalize that idea to arbitrary sets. CO4 Extend the concepts like convergence and limits of analysis to Metric spaces
		CO3	
MM6CR T03	Complex Analysis	CO1	Learn about Complex valued functions and determine whether a given function is differentiable
		CO2	Comprehend what an analytic function and understand Complex integration
		CO3	Identify and classify Singular points to use in Complex integrals
MM6CR T04	Linear	CO1	To Solve systems of linear equations.
	Algebra	CO2	
		CO3	Learn deeply about linear transformations and represent them in matrix form.
		CO3	Determine eigenvalues of a given matrix and use it to diagonalize the given matrix.

### CORE COURSES OF B. Sc. PHYSICS

Course Code	Course Title	Course Outcomes					
Couc		SEMESTER 1					
PH1CRT01	Methodology	CO1	Create Awareness on the History of Physics, giving emphasis on				
	and Perspectives		the contributions of great scientists.				
	of Physics	CO2	Introduce the mathematical methods physicists often use,				
	-		including differential, integral and vector calculus, curvilinear				
			coordinates etc.				
		CO3	Study the principles of various measuring instruments, errors and				
			its propagation				
			SEMESTER 2				
PH2CRT02	Mechanics and	CO1	Empower the student to acquire engineering skills and practical				
	Properties of		knowledge, useful in their everyday life and learn the basics of				
	Matter		properties of matter, demonstrate how Young's modulus and				
		~~	rigidity modulus are defined and how they are evaluated.				
		CO2	Understand the working of different types of pendulum, study the				
			elastic behaviour of materials, surface tension and viscosity of fluids etc.				
		CO3	Learn the fundamentals of harmonic oscillator model, including				
		COS	damped and forced oscillations.				
			SEMESTER 3				
PH3CRT03	Optics, Laser	CO1	Use the principles of wave motion and superposition to explain the				
	and Fiber Optics	001	physics of polarization, interference and diffraction.				
		CO2	Understand the basics of modern optics like Lasers, Fiber optics				
			and holography.				
		CO3	Solve problems in optics by selecting the appropriate equations				
			and performing numerical or analytical calculations.				
			SEMESTER 4				
PH4CRT04	Semiconductor	CO1	Understand the fundamentals of diodes and their applications and				
	Physics		analyse the characteristics of transistor and transistor biasing				
			circuits, integrated circuits, modulation etc.				
		CO2	Gain basic ideas on construction and working of electronic devices				
		001	and circuits and communication systems.				
		CO3	Apply the principles of electronics in day today life.				
DUCCDTOS	T1	CO1	SEMESTER 5				
PH5CRT05	Electricity and	CO1	Gain elaborated knowledge about electrostatics and laws				
	Electrodynamics		governing the charge distribution and realize the importance of Maxwell's equations, displacement current and wave propagation				
		CO2	Study in depth the transient current response which is essential in				
		CO2	designing as well as understanding the working of circuits.				
		CO3	Solve complex problems involving linear electrical networks				
		003	employing the symmetry concepts together with various network				
			theorems.				
PH5CRT06	Classical and	CO1	Study different frames of references, constraints, Lagrangian and				
	Quantum		Hamiltonian formalisms etc.				
	Mechanics	CO2	CO2 Realize the inadequacies of classical mechanics that lead to				
			the development of quantum concepts.				
		CO3	Grasp the idea of Wave Mechanics, the concept of eigen values,				
			eigen functions and learn the basic postulates of quantum				
			mechanics				
		CO4	Formulate and solve Schrödinger's equation for many systems				
			such as particle in a box, potential barrier, Harmonic oscillator etc				

PH5CRT07	Digital Electronics and	CO1	Understand the fundamentals of codes and number system, binary arithmetic, logics and boolean functions.
	Programming	CO2	Study the design and working of various combinational and
	Trogramming	CO2	sequential logic circuits.
		CO3	Develop a greater understanding of the issues involved in
			programming language design and implementation
		CO4	Train the students the basic concepts of object oriented
			programming languages and provide exposure to problem solving
			through programming in C++
PH5CRT08	Environmental	CO1	Prepare students for careers as leaders in understanding and
	Physics and		addressing complex environmental issues from a problem oriented
	Human Rights		interdisciplinary perspective.
		CO2	Master core concepts and methods from ecological and physical
			sciences and application in environmental problem solving.
		CO3	Understand human rights, its protection and activities against it in
			a global perspective.
		T	SEMESTER 6
PH6CRT09	Thermal and	CO1	Understand the central concepts and basic formalisms of specific
	Statistical	G0.2	heat, entropy, quantum theory of radiation etc.
	Physics	CO2	acquire knowledge in heat transfer, production of low temperature,
		602	liquefaction of gases etc.
		CO3	Study the statistical distribution of particles, ensembles, classical
PH6CRT10	Dalativity and	CO1	and quantum statistics etc.  Provide an idea of Galilean and Lorentz transformations and
PHOCKIIU	Relativity and	CO1	
	Spectroscopy		effects of special relativity which has significance in high energy Physics.
		CO2	Gain deeper understanding of interaction between matter and radiation.
		CO3	Study the principle and instrumentation of various spectrometers
		003	including NMR and ESR systems.
PH6CRT11	Nuclear, Particle	CO1	Understand the concepts and potential applications nuclear and
	and		particle Physics and apply general considerations of quantum
	Astrophysics		physics to atomic and nuclear systems.
		CO2	Expand and evaluate the theoretical predictions on nuclear models
		000	and nuclear reactions.
DILCODE 12	G 1: 1 Gt :	CO3	Understand the evolution of stars and other heavenly bodies.
PH6CRT12	Solid State	CO1	Outline the importance of solid state Physics in the modern
	Physics	CO2	Society.  Explore the relationships between shamical handing & arrestel
		CO2	Explore the relationships between chemical bonding & crystal structure and their effects.
		CO3	Study the conduction mechanism in solids including
		COS	superconductors.
		CO4	Transfer the knowledge level from theoretical physical subjects
		004	towards the understanding of basic properties of solid state matter.
		l	towards the understanding of basic properties of solid state matter.

### **CORE COURSES OF B. Com.**

Course code	Course Title		Course Outcomes				
	SEMESTER 1						
CO1CRT01	Dimensions and Methodology of Business Studies	CO1 CO2 CO3 CO4 CO5	To understand business and its role in society  To have an understanding of Business ethics and CSR  To comprehend the business environment and various dimensions  To familiarise Technology integration in business  To introduce the importance and fundamentals of business research				
CO1CRT02	Financial Accounting-1	CO1	To equip the students with the skill of preparing accounts and financial statements of various types of business units other than corporate undertakings				
CO1CRT03	Corporate Regulations and Administration	CO1	To familiarise the students with the management and administration of joint stock companies in India as per Companies Act, 2013				
		<u>'</u>	SEMESTER 2				
CO2CRT04	Financial Accounting-2	CO1	To acquaint the students with the preparation of books of accounts of various types of business activities and application of important accounting standards				
CO2CRT05	Business Regulatory Frame work	CO1	To familiarize the students with the legal framework influencing business decisions.				
CO2CRT06	Business Management	CO1	To familiarize the students with concepts and principles of management.				
			SEMESTER 3				
CO3CRT07	Corporate Accounts -1	CO1	To make the students familiarize with corporate accounting procedures and to understand the accounting for banking companies.				
CO3CRT08	Quantitative Techniques for Business-1	CO1	To make the students understand the role of statistics and quantitative techniques in business and familiarize them with basic tools applied				
CO3CRT09	Financial Markets and Operations	CO1	The course is intended to familiarize the students with financial market operations in India				
CO3CRT10	Marketing Management	CO1	The objective of this course is to provide a sound understanding of the basic principles of marketing management and their applications in the business and industry.				
CO3OCT01	Goods and Services Tax	CO1	To give the students a general understanding of the GST law in the country with a practical perspective and employability to the students in the commercial tax practices.				
			SEMESTER 4				
CO4CRT11	Corporate Accounts-2	CO1	To equip the students with the preparation of financial statements of insurance companies and to understand the accounting procedure for reconstruction and liquidation of companies.				

CO4CRT12	Quantitative	CO1	The objective of this course is to familiarize the students with
COTCRITZ	Techniques for	001	more advanced tools of data analysis and forecasting and also to
	Business-2		have an understanding of the fundamentals of theory of
			probability
CO4CRT13	Entrepreneurship	CO1	To develop entrepreneurial spirit among students
	Development	CO2	To empower students with sufficient knowledge to start up their
	and Project		venture with confidence
	Management	CO3	To mold young minds to take up challenges and become
			employer than seeking employment and to make them aware of
CO40CT01	Dinamata1	CO1	the opportunities and support for entrepreneurship in India
CO4OCT01	Financial services	CO1	To provide the students with an overall idea of financial services
	services		available in the country and to create an understanding about recent trends in financial services sector.
			SEMESTER 5
	T ==		
CO5CRT14	Cost	CO1	To familiarise the students with cost concepts and to make the
	Accounting-1		students learn the Fundamentals of cost accounting as a
CO5CRT15	Environment	CO1	separate system of accounting.  To familiarize the students with multidisciplinary nature of
COSCRIIS	Management	COI	environmental studies, natural resources, eco system, bio-
	And Human		diversity and its conservation, environmental pollution
	Right		
CO5CRT16	Financial	CO1	To familiarise the students with the functional areas and
	Management		principles of financial management.
CO5OCT01	Income Tax-1	CO1	To familiarise the students with Income Tax Act 1961 and to
			enable the students to compute Income taxable under the first
			three heads of Income.
			SEMESTER 6
CO6CRT17	Cost Accounting	CO1	To familiarise the students with the functional areas and
	-2		principles of financial management.
CO6CRT18	Advertisement	CO1	To make the students aware of the strategy, concept and
	and Sales		methods of advertising and sales promotion.
	Management		
	Auditing and	CO1	To familiarize the students with the principles and procedure of
CO6CRT19	Assurance		auditing.  To enable the students to understand the duties and
			responsibilities of auditors and to undertake the work of
			auditing.
		CO2	To familiarise the students with the functional areas and
			principles of financial management.
CO6CRT20	Management	CO1	To acquaint the students with management accounting techniques
	Accounting		for the analysis and interpretation of financial statements and to
CO6OCT01	Income Tax-2	CO1	study the basic framework of financial reporting.
COUCTUI	income tax-2	COI	To have an understanding of determination of Total Income
			and tax payable and to get an overview regarding returns to be filed by an individual and also assessment procedure.
			med by an individual and also assessment procedure.

#### **OPEN COURSES**

(Offered During Semester 5)

<b>Course Code</b>	Course Title	Course Outcomes		
Department of Economics				
EC5OP T01	Fundamentals of Economics	CO2 CO3	This course is designed to make the undergraduate students of other disciplines aware of the basic ideas and concepts in economics.  Students get the basic idea regarding national income, production, distribution etc.  This course also inculcates some reasoning ability in students from	
			other disciplines.	
		T	Department of History	
HY50C T02	Social Implications of Modern Revolutions	CO1	To provide good awareness about the major social revolutions of the modern world.  To focus on the linkage between the socioeconomic revolutions of the modern world	
	Revolutions		Department of Chemistry	
CH5OP T01	Chemistry in Everyday Life	CO1	To know the importance of Chemistry in everyday life, because it provides medicine  To understand the chemical processes involved in the digestion of food we eat.	
	<u> </u>		Department of Physics	
PH5OP T02	Physics in Daily Life	CO2 CO3	Recognize the importance of applied Physics in describing natural phenomena Realize the significance of units and measurements, optical phenomena, electricity and its applications, matter and energy etc. Obtain a fundamental understanding about our universe, including galaxies, solar system, artificial satellites and their use in global positioning system.	
			Department of Mathematics	
MM5O PT02	Applicable Mathematics	CO1 CO2 CO3	To prepare students of all streams particularly those with arts and commerce background for their higher studies and to approach competitive examinations  To acquire better understanding in basic concepts of mathematics  To introduce shortcut methods for developing problem solving skills	
			Department of Botany	
BO5OP T02	Horticulture and Nursery Management	CO1 CO2 CO3	To understand the importance of horticulture in human welfare and the propagation and cultural practices of vegetables, fruit and garden plants.  To understand the basic concepts of landscaping and garden designing.  To understand the modern technology in horticultural plants.	
			Department of Commerce	
CM5OPT01	Fundamentals of Accounting	CO1 CO2 CO3	Familiarize the students with the basic accounting principles and practices in business  Equip students in preparing Journal and Ledger accounts  Equip students in preparation of Final Accounts of Sole proprietary concerns	

## **CHOICE BASED COURSES**

(Offered During Semester 6)

<b>Course Code</b>	Course Title		Course Outcomes
			B. A. Economics
EC6CB T03	History of Economic	CO1	This course aims to portrait through which the science of economics has evolved.
	Thought	CO2	It provides an opportunity for the students to know about the economic history.
		CO3	Students also get chance to realize the different line of thought from ancient economists to modern economists
			B. A. History
HY6CBT01	Archaeology in India	CO1	To acquaint students with some basic concepts and methods of archaeological research such as excavation, survey, analysis of artefacts and various dating methods.
		CO2	To make them aware of the contributions of key archaeologists and institutions in the evolution of archaeology as a discipline in India and to learn an integrative approach to the theoretical perspectives and praxis of archaeology.
			B. Sc. Chemistry
CH6CB T01	Polymer Chemistry	CO1	To understand the basics polymer science, various reactions of polymerization and biodegradable polymers
		CO2	To understand the various processing techniques of plastic materials
			B. Sc. Physics
PH6CBT04	Instrumentation	CO1	To understand the basics of instrumentation engineering
		CO2	To understand about various types of transducers used in instruments
			B. Sc. Mathematics
MM6CBT01	Operations	CO1	Formulate and solve LPP using graphical and Simplex method.
1,11,1002101	Research	CO2	Study duality in LPP.
		CO3	Study transportation and assignment problems
			B. Sc. Botany
BO6CBT01	Agribusiness	CO1	Inculcate and impart an idea about the business opportunities in the field of plant sciences.
		CO2	Develop an entrepreneurial mindset and also to stick on to the core subject among the Botany students.
		CO3	Give an idea about the need of sustainable development and organic farming.
		CO4	Harness the opportunities and potentials in the field of ecotourism, processing technology and food sciences

## **COMPLEMENTARY COURSES**

<b>Course Code</b>	Course Title		Course Outcomes
			B. A. Economics
			SEMESTER 1
HY1CPT03	Social Formation in pre	CO1	Students will be able to examine institutional basis of Ancient India.
	modern India.	CO2 CO3	Students will be able to illustrate the development of empire.  Understand the salient features of Indus valley civilization
		<u>CO3</u>	SEMESTER 2
HY2CPT02	Transition to the contemporary	CO1	Students have understood the relation between Modernity and Nationalism and its implications.
	world	CO2	Realize the cause and results of French Revolution and the achievements of Napoleon Bonaparte.
		CO3	Understand the causes and results of Second World War and the establishment of UNO.
		CO4	Students have understood the necessity of Universal Brotherhood
			SEMESTER 3
PS3CMT 01	An Introduction to Political Science	CO1	It will help the student to understand the relevance of the discipline and also to acquire the practical knowledge of the subject
		CO2	Inculcate awareness about the principles of Political Science in general and political process in particular. For that, various approaches, ideologies and related theories are dealt in an interdisciplinary manner.
			SEMESTER 4
PS4CMT 05	Indian Constitution: Social Issues in India	CO1	The course helps to develop among students the ability to comprehend contemporary politics as a relationship between institutional structures and historically constituted political processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and institutional practices shaped the discipline in a more meaningful way.
			B. A. History
			SEMESTER 1
EC1CM T01	Principles of Economics	CO1	It helps the students to learn to apply the basic principles and concepts of economics to everyday issues.
		CO2	It also helps the students to imbibe the relationship among
			the members of the society.  SEMESTER 2
EC2CM T02	Basic Economic Studies	CO1	It intends to make the students equipped with essential understanding the basic economic issues.
		CO2	Students also get acquainted with policy requirements.
			SEMESTER 3

PS3CMT 01	An Introduction	CO1	It will help the student to understand the relevance of the
1 5 5 CW11 01	to Political	COI	discipline and also to acquire the practical knowledge of the
	Science		subject
	Belefice	CO2	Inculcate awareness about the principles of Political Science
		CO2	in general and political process in particular. For that,
			various approaches, ideologies and related theories are dealt
			in an interdisciplinary manner.
DO ACT ATT OF	Y 1'	001	SEMESTER 4
PS4CMT 05	Indian	CO1	The course helps to develop among students the ability to
	Constitution:		comprehend contemporary politics as a relationship between
	Social Issues in India		institutional structures and historically constituted political
	Illula	CO2	processes.
		CO2	Integral to the course is the understanding that ideas of democracy, freedom and corresponding social political and
			institutional practices shaped the discipline in a more meaningful way.
			B. Sc. Chemistry
PH1CM T02	Properties of	CO1	SEMESTER 1  Explore the fundamental concepts of mechanical properties
FITTCWI 102	matter and	COI	of solids and fluids.
	thermodynamics	CO2	Understand the central concepts and basic formalisms of
		002	specific heat, entropy, quantum theory of radiation.
		CO3	Acquire knowledge on heat transfer, entropy and quantum
			theory of radiation
MM1C MT01	Partial	CO1	Understand the concept of partial differentiation of functions
	Differentiation,		of several variables.
	Matrices,	CO2	Solve systems of linear equations using different methods.
	Trigonometry	CO3	Understand trigonometric and hyperbolic functions in detail.
	and Numerical	CO4	Learn how to solve equations using numerical methods.
	Methods		SEMESTER 2
MM2C MT01	Integral	CO1	
MINIZC MITUI	Integral Calculus and	COI	Use integral calculus to find area and volume of various geometrical objects.
	Differential	CO2	Master the concepts of double integrals and triple integrals
	Equations	CO3	Recognize and solve separable, exact, homogeneous and
	1	203	non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations
PH2CM T02	Mechanics and	CO1	Learn Relative motion, Inertial and non-inertial reference
	superconductivit		frames and Centre of mass of mechanical systems.
	у	CO2	Study the interaction of forces between solids in mechanical
			systems and parameters defining the motion of mechanical
			systems.
		CO3	Understanding the basic principles of superconducting
			transitions.
			SEMESTER 3
MM3C MT01	Vector Calculus,	CO1	Acquaint with the concept of vector valued functions and its
	Analytic	002	curvature, directional derivatives
	Geometry and	CO2	Extend the tools of integral calculus to vector valued
	Abstract	CO2	functions
	Algebra	CO3	Understand various properties of conic sections in Cartesian
		CO4	and polar coordinates  Understand basic algebraic concepts like binary energtions
		CO4	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals
			groups, coscis, rings, racais

D110 G1 1 F104		~~1	
PH3CM T02	Modern physics	CO1	Study the basics of dual properties of matter and radiation.
	and magnetism	CO2	Introduce the modern branch of Physics 'Quantum
			Mechanics'.
		CO3	Define the concepts of magnetic field, magnetic flux etc. and
			solve technical problems.
	I		SEMESTER 4
MM4C MT01	Fourier Series,	CO1	Learn Fourier series and Legendre Polynomials
	Laplace	CO2	Solve differential equations using power series method
	Transforms and	CO3	Understand Laplace transforms
	Complex	CO4	Learn about Complex valued functions and determine
	Analysis		whether a given function is differentiable
PH4CM T02	Optics and Solid	CO1	Understand the central concepts and basic formalisms of
	State physics		interference, diffraction and polarization based on wave
		G02	theory.
		CO2	Gain Fundamental knowledge in lasers and applications.
		CO3	Understand the basic properties of solids, their structure,
			properties and various technological applications.
			B. Sc. Physics
MM1CMT01	Partial	CO1	SEMESTER 1 Understand the concent of partial differentiation of functions
MMICMIUI		CO1	Understand the concept of partial differentiation of functions of several variables.
	Differentiation, Matrices,	CO2	Solve systems of linear equations using different methods.
	Trigonometry	CO2	Understand trigonometric and hyperbolic functions in detail.
	and Numerical	CO4	Learn how to solve equations using numerical methods.
	Methods	004	Learn now to solve equations using numerical methods.
			SEMESTER 2
MM2CMT01	Integral	CO1	Use integral calculus to find area and volume of various
	Calculus and		geometrical objects.
	Differential	CO2	Master the concepts of double integrals and triple integrals
	Equations	CO3	Recognize and solve separable, exact, homogeneous and
			non-homogeneous ordinary differential equations
		CO4	Solve partial differential equations
			SEMESTER 3
MM3CMT01	Vector Calculus,	CO1	Acquaint with the concept of vector valued functions and its
	Analytic	GOO	curvature, directional derivatives
	Geometry and	CO2	Extend the tools of integral calculus to vector valued
	Abstract	GO2	functions
	Algebra	CO3	Understand various properties of conic sections in Cartesian
		COA	and polar coordinates  Understand basic algebraic concepts like binary operations
		CO4	Understand basic algebraic concepts like binary operations, groups, cosets, rings, ideals
	Essaira Ca	CO1	SEMESTER 4
	Fourier Series,	CO1	Learn Fourier series and Legendre Polynomials
MM4CMT01	Laplace Transforms and	CO2	Solve differential equations using power series method
WIWI4CWITUI	Complex	CO3	Understand Laplace transforms  Learn about Complex valued functions and determine
	Analysis	CO4	Learn about Complex valued functions and determine whether a given function is differentiable
	2 21141 / 515		BSc Mathematics
			SEMESTER 1
ST1CM T01	Descriptive	CO1	Statistical skills to collect empirical data and to calculate
5110111101	Statistics	201	descriptive statistics
	Statistics	CO2	Statistical skills to visually interpret empirical data
PH1CM T01		CO1	Learn the basics concepts of elasticity, surface tension,
			gravitation, viscosity and sound.
			G-M

	_		
	Properties of	CO2	Understand the concepts of properties of matter and to
	matter & error	CO2	recognize their applications in various problems.
	analysis	CO3	Identify/classify the usual experimental errors and study different calculation methods.
			SEMESTER 2
ST2CM T02	Probability	CO1	Basic knowledge in probability theory and problem-solving
512CW 102	Theory	COI	skill
	Theory	CO2	Different methods to find probability
PH2CM T01	Mechanics and	CO1	Understand and define the laws involved in mechanics.
	Astrophysics	CO2	Explain the notion of degrees of freedom and identify them
	1 0		for a given mechanical system.
		CO3	Attain an elementary idea on stellar evolution and universe.
			SEMESTER 3
ST3CM T03	Probability	CO1	Acquaint the students familiar with basic probability
	Distributions		distributions
		CO2	Acquaint the students familiar with their properties of
DI IOCI I TO I	)	GO.	probability distributions and problem-solving skill
PH3CM T01	Modern Physics	CO1	Study the basics of dual nature of matter and radiation and
	and Electronics	002	introduce the new branch of Physics 'Quantum Mechanics'.
		CO2	Impart knowledge related to the concepts of spectroscopy.
		CO3	Familiarize with the basic concepts of construction and
			working of electronic devices such as diodes and transistors SEMESTER 4
ST4CM T04	Statistical	CO1	Expected to learn the basics of estimation theory
514CW1104	Inference	CO2	Make the student understand the concepts of testing of
	Interence	CO2	hypothesis and decision-making skill
PH4CM T01	Optics and	CO1	Understand the central concepts and basic formalisms of
	electricity		interference, diffraction and polarization.
	•	CO2	Gain Fundamental knowledge in lasers and holography.
		CO3	Build up fundamental understanding of electricity and
			achieve strong problem-solving skills by effectively
			formulating a circuit.
			B. Sc. Botany
		~ ~ .	SEMESTER 1
ZY1CM T01	Non-Chordate	CO1	To study the scientific classification of invertebrate fauna.
	Diversity	CO2	To learn the physiological and anatomical peculiarities of
		CO2	some invertebrate phyla through type study.
		CO3	To learn the unity of life with rich diversity of organisms &
CH1CM T01	Basic theoretical	CO1	evolutionary significance of certain invertebrate fauna  This part of the syllabus will impart an interest in studying
CITICIVI 101	and analytical	COI	chemistry
	chemistry	CO2	students are getting more ideas about theoretical and
	Jiioiiiibti j		experimental Chemistry
		CO3	Students can apply these skills in the analysis of
			experimental data in chemistry practical and further for jobs
			SEMESTER 2
ZY2CM TO2	Chordate	CO1	To make the student observe the diversity in chordates and
	Diversity		their systematic position.
		CO2	To make the student ware of the economic importance of
			some chordates.
		CO3	CO3 To learn the physiological and anatomical peculiarities
			of some vertebrate species through type study.

CH2CM T02	CH2CM T02	CO1	By studying this part of the syllabus students are getting
		COI	
Basic Organic	Basic Organic		basic ideas of organic chemistry, which enables them to
Chemistry	Chemistry		build a better foundation
		CO2	The course aims to study the mechanism of organic reactions
		CO3	It also develops an interest in various branches of organic
			chemistry.
			SEMESTER 3
ZY3CM T03	Physiology and	CO1	To appreciate the correlation between structure and function
	Immunology		of organisms
		CO2	To make the student aware of the health-related problems,
			their origin and treatment.
		CO3	To understand how efficiently our immune system works in
			our body and to acquire knowledge about preventing
			common diseases rather than curing.
CH4CM T04	Inorganic and	CO1	Develops an interest in various branches of organic
	Organic		chemistry.
	Chemistry		
		CO2	An inorganic chemistry student is expected to be conversant
			with the chemistry of all the elements and has been closely
			allied with analytical chemistry, with physical chemistry and
			even with organic chemistry.
			SEMESTER 4
ZY4CM T04	Applied	CO1	To acquire basic knowledge and skills in applied branches of
	Zoology		zoology.
		CO2	To understand the technology for utilizing eco-friendly
			organisms around them for beneficial purpose.
		CO3	To equip the students for self-employment opportunities
			with scientific knowledge to perform profitably &
			confidently.
CH4CM T06	Advanced	CO1	This part of the curriculum deals with biological aspects of
311.0111.103	Bioorganic		chemistry, which help students to understand medicinal
	Chemistry		chemistry, useful in daily life
	Chemistry	CO <sub>2</sub>	To study the details of Natural products
		CO2	To study the details of Waturar products

# **VOCATIONAL COURSES**

<b>Course Code</b>	Course Title	Course Outcomes				
	B. Sc. Physics (Model II) Computer Application					
			SEMESTER 1			
CA1VOT01	Computer Fundamentals	CO1	To provide basic knowledge about computers			
CA1VOT02	Computer Networks and	CO1	To provide knowledge about various networking technologies			
CATVOT02	Internet Technologies	CO2	To understand about various networking applications			
			SEMESTER 2			
	W I ID	CO1	To provide detailed knowledge about desktop publishing software like MS Word and PageMaker			
CA2VOT03	Word and Data Processing	CO2	To provide detailed knowledge about data processing software MS Excel			
	Packages	CO3	To gain working knowledge in desktop publishing and data processing packages.			
CA2VOT04	Programming in ANSI C	CO1	To learn the programming concepts in C language			
CA2V0104		CO2	To gain the skills of programming using ANSI C			
			SEMESTER 3			
CA3VOT05	Concepts of OOP	CO1	To understand basic concepts of object-oriented languages			
CASVOTOS		CO2	To gain the skills of programming using C++			
CA3VOT06	Operating System	CO1	To provide basic knowledge about the role of operating system in the functioning of computers			
			SEMESTER 4			
CA4VOT07	7 Visual Basic Programming C		To provide basic understanding of VB programming			
		CO1	To provide basic understanding of HTML			
CAANOTOO	Web Development	CO2	To provide basic understanding Java Script			
CA4VOT08	and PHP Programming	CO3	To provide basic understanding MySQL			
		CO4	To learn how to implement MySQL using PHP			

# **Course Outcomes of M. Sc. Applied Chemistry**

<b>Course Code</b>	Course Title	Course Outcomes		
			SEMESTER 1	
CH500101	Organometallics	CO1	Identify the structure and bonding aspects of simple	
	and Nuclear		organometallic compounds	
	Chemistry	CO2	Apply different electron counting rules to predict the	
			shape/geometry of low and high nuclearity metal carbonyl	
			clusters	
		CO3	Identify the different types of organometallic reactions and	
			apply the above concepts to explain different catalytic	
			reactions	
CH500102	Structural and	CO1	Comprehend and Predict the role of temperature, solvents,	
	Molecular		and catalysts in organic reactions	
	Organic	CO2	Elucidate reaction mechanisms using isotope effects	
	Chemistry	CO3	Identify and differentiate prochirality and chirality at centers,	
			axis, planes and helices and determine the absolute	
			configuration	
		CO4	Evaluate the stability of various conformers of acyclic and	
			cyclic systems using steric, electronic and stereo-electronic	
			effects and correlate them to reactivity	
CH500103	Quantum	CO1	Use mathematical techniques in linear algebra for eigenvalues	
	Chemistry and		and eigenvectors and first and second order differential	
	Group theory		equations not only in quantum chemistry but in other areas of	
			physical and theoretical chemistry that will be offered during	
			the whole programme.	
		CO2	Solve all the model problems in quantum mechanics for	
		002	which exact analytical methods and solutions are available	
			and will apply them to analyze the basis behind the	
			postulatory method of quantum mechanics and which forms	
			the foundations for advanced study of the subject.	
		CO3	Relate concepts that were originally introduced purely as	
			modern atomic physics to molecular systems through	
			harmonic oscillator, spin and rigid rotator.	
		CO4	Determine the symmetry operations of any small and	
			medium-sized molecule and apply point group theory to the	
			study of electrical, optical and magnetic properties and	
			selection rules for absorption	
CH500104	Classical and	CO1	Calculate change in thermodynamic properties, equilibrium	
C11300101	Statistical	COI	constants, partial molar quantities, chemical potential. Identify	
	Thermodynamics		factors affecting equilibrium constant and apply phase rule	
	Thermodynamics		and, draw phase diagrams for one, and two component	
			systems, identify the dependency of temperature and pressure	
			on phase transitions, and identify first/second order phase	
			transitions.	
		CO2	Solve problems based on Debye-Huckel limiting law.	
		<b>-</b>	Calculate excess thermodynamic properties and calculate the	
			absolute value of thermodynamic quantities (U, H, S, A, G)	
			and equilibrium constant (K) from spectroscopic data.	
		CO3	Predict heat capacity (Cv, Cp) of an ideal gas of linear and	
			non-linear molecules from the number of degrees of freedom,	
			rotational and vibrational wave numbers.	
		CO4	Derive the temperature dependence of the second Virial	
			coefficient (real gases) from interatomic potentials.	
			` ` ` ' ` '	

			SEMESTER 2
CH500201	Coordination Chemistry	CO1	Identify the principles, structure and reactivity of selected coordination complexes. Interpret their electronic spectra and magnetic properties.
		CO2	Utilize the principles of transition metal coordination complexes in understanding functions of biological system
CH500202	Organic Reaction Mechanism	CO1	Comprehend the structure-reactivity pattern of reactive intermediates involved in organic reactions
		CO2	Comprehend the orbital interactions and orbital symmetry correlations of various pericyclic reactions
		CO3	Write mechanism of organic reactions involving reactive intermediates and concerted processes and apply these reactions in organic synthesis
CH500203	Chemical Bonding and Computation al	CO1	Apply time independent perturbation theory to complex problems of molecular energy levels in the presence of external electric and magnetic fields
	Chemistry	CO2	Distinguish different types of hybridization based on geometries of the complex and to calculate for a one electron and two electron system, all the necessary integrals due to coulombic forces.
		CO3	Write short simple programs in FORTRAN and be able to compile and execute them in a host of machines.
		CO4	Use standard software tools such as MATLAB and Mathematica to perform algebraic and numerical calculations often required in elementary physical chemistry in the areas of quantum chemistry, spectroscopy, kinetics and thermodynamics
CH500204	Molecular Spectroscopy	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds
			SEMESTER 3
CH500301	Advanced Synthetic	CO1	Use various reagents and organic reactions in organic synthesis
	Organic Chemistry	CO2	Use retrosynthetic method for the logical dissection of complex organic molecules and devise synthetic methods
CH500302	Spectroscopic Methods in Chemistry	CO1	Apply NMR, IR, MS, UV-Vis spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.
		CO2	Interpret the above spectroscopic data of unknown compounds.
		CO3	Use these spectroscopic techniques in their research
CH500303	Chemistry and Biochemistry of	CO1	To know how to classify lipids, oils and fats and to learn the nomenclature of triglycerides
	Fatty Acids	CO2	To study the chemical properties of fatty acids and biochemical transformation of fats in the body
		CO3	To learn the isolation and Characterization of Fatty Acids
CH500304	Essential Oils and Aromatics	CO1	To get an idea about the production and isolation of Essential Oil
		CO2	To understand of the sources, production, general nature and use of various essential oils

	SEMESTER 4				
CH800401	CH800401 Fats, Oils and Waxes		To learn the extraction of oils and fats and get an idea about commercially important oils and fats		
		CO2	To analyse fats and oils, waxes and Fatty Alcohols		
		CO3	To know the rancidity in oils, fats and oil bearing substances		
CH800402	Industrial Oil and	CO1	To know the Processing of Oils and Fats		
Fat Produc	Fat Products	CO2	To understand the hydrogenation of Oils, Fat Splitting and Esterification		
		CO3	To know the theories of surface action and soaps		
		CO4	To understand the instrumental Analysis of Oil and Fat Products		
Aromatics a Essential O	Chemistry of Aromatics and	CO1	To study of the sources, production, nature, chemical constituents and uses of common spices and condiments		
	Essential Oil Constituents	CO2	To get an idea about the methods of production, chemistry of the constituents and uses of spice oils and oleoresins		
		CO3	To know about the natural source, production and chemistry of aromatics and essential oil constituents		

# **Course Outcomes of M. Sc. Botany**

<b>Course Code</b>	Course Title	Course Outcomes		
			SEMESTER 1	
BY010101	Microbiology	CO1	To understand the world of microbes.	
	and Phycology	CO2	To familiarize the algal diversity.	
		CO3	To equip the students with in depth knowledge of the kingdom fungi and common diseases affecting plants.	
BY010102	Mycology and crop pathology	CO1	To acquire the knowledge to understand various groups of fungi.	
		CO2	To impart an in depth knowledge in the pathophysiological mechanisms in plants.	
		CO3	To familiarize the common diseases affecting plants.	
		CO4	To understand the basics of plant quarantine measures.	
BY010103	Bryology and	CO1	To study the external morphology of Bryophytes.	
	Pteridology	CO2	To study the internal structure and reproduction in Bryophytes.	
		CO3	To understand the diversity in habits and habitats of	
			pteridophytes.	
		CO4	To familiarize the students with the classification of lower	
BY010104	Environmental	CO1	forms of plants.  To understand the significance of environmental science.	
	Biology	CO2	To make the students aware about total biodiversity	
			conservation.	
		CO3	To help the students to design novel mechanisms for	
			sustainable utilization of natural resources.	
		CO4	To familiarize the students with the vast diversity of biomes	
			and their role in phytogeographical conditions.  SEMESTER 2	
BY010201	Gymnosperms,	CO1	To understand the evolutionary trends in gymnosperms.	
<b>D</b> 1010201	paleobotany	CO2	To understand anatomical variations in vascular plants.	
	and evolution	CO3	To understand the significance of paleobotany and its	
			applications.	
		CO4	To make the students aware of the past geological factors that led to the evolution of gymnosperms.	
BY010202	Cell and	CO1	To understand the ultrastructure and functioning of cells.	
	Molecular	CO2	Familiarisation of life processes.	
	Biology	CO3	To understand the basic and scientific aspects of diversity.	
		CO4	To understand DNA as the basis of heredity and variation	
BY010203	Plant anatomy	CO1	To understand the internal structure of evolved group of plants	
	and	CO2	To understand the individual cells and tissues.	
	Angiosperm Systematics	CO3	To understand structural adaptations in plants growing in	
		CO4	different environments.  To familiarize the students with modern trends in plant	
			systematics	
BY010204	Genetics and	CO1	To understand the principles of heredity.	
	Biochemistry	CO2	To understand the patterns of inheritance in different	
		CO2	organisms.  To understand the role of hiemelecules in plant life	
		CO <sub>3</sub>	To understand the role of biomolecules in plant life.	
		CO4	To understand structure and importance of biomolecules associated with plant life.	

			SEMESTER 3
BY010301	Research	CO1	To equip the students with deep knowledge in the
	methodology,		methodology of research.
	Biophysics,	CO2	To make the students understand various biophysical
	Biostatistics		instrumentation.
	and	CO3	To develop statistical skills and techniques.
	Microtechnique	CO4	To familiarize the students with various micro-technique
DV(010202	DI .	001	skills.
BY010302	Plant	CO1	To understand the physiological processes of plant life.
	physiology and	CO2	To understand the methods of crop improvement.
	plant breeding	CO3	To make the students skilled to carry out various physiological
		CO4	experiments.
		CO4	To enable the students to understand the different methods used in plant breeding.
BY010303	Biotechnology	CO1	Understand the current developments in the field of
<b>D</b> 1010303	Bioteennology		Biotechnology.
		CO2	Equip the students to carry out plant tissue culture.
		CO3	Introduce the vast repositories of Biological data knowledge.
		CO4	To introduce the novel prospects in Biotechnology that can be
			used as potential aids to solve the problems of man and nature.
BY010304	Taxonomy of	CO1	To make the students understand the classification, naming
	angiosperms		and identification of higher plants.
		CO2	To familiarize with the common plants of Kerala and their
			classification.
		CO3	To develop inductive and deductive reasoning ability.
		CO4	To make the students able to identify, classify and name
			unknown plant species.
			SEMESTER 4
PE1	Tissue culture	CO1	To understand the tissue culture techniques.
	and microbial	CO2	To equip the students with knowledge of the microbial world
	biotechnology		and their role in commercial production of various products.
		CO3	To enable the students to carry out micro propagation of
			various plant species.
		CO4	To develop an in depth understanding of the applications of
DEG		001	microbial biotechnology in medical and agricultural fields.
PE2	Genetic	CO1	To understand the recombinant DNA technology.
	Engineering	CO2	To understand the elements of GE so as to encourage the
		CO2	students' interest in advanced biological techniques.
		CO3	To develop high order thinking skills in students so as to enable them to find practical solutions to problems in Biology.
		CO4	To enhance the knowledge on the genetic organization of
		CO <del>4</del>	organisms.
PE3	Genomics,	CO1	To familiarize the students with the modern arena of genomics
	Proteomics and		and proteomics.
	Bioinformatics	CO2	Understand the current developments in the field of
			Biotechnology.
		CO3	To equip the students to access and analyze data available in
			databases.
		CO4	To understand the current developments in the area of
			Genomics and Proteomics.

# **Course Outcomes of M. A. Economics**

<b>Course Code</b>	Course Title	Course Title Course Outcomes				
	SEMESTER 1					
EC010101	Microeconomics-I	CO1	To get an understanding of relevant microeconomic concepts  To Acquire capacity to explain and evaluate critically theoretical arguments.			
EG010102		CO1	theoretical arguments  To know the major issues as they arise in the field of macroeconomics,  To understand alternative approaches to modeling			
EC010102	Macroeconomics-I	CO3	consumption, and investment,  To evaluate critically the usefulness of macroeconomic techniques.			
		CO1	To understand and critically evaluate alternative theories of growth.			
EC010103	Development Economics	CO2	To have a clear understanding of the recent literature, both empirical and analytical, on theories of underdevelopment and growth in developing countries			
		CO3	To evaluate critically some of the results in the literature, particularly those related to development issues.			
	Indian Economy-I	CO1	To enable the students to appreciate the evolution of the economy, its institutional framework, nuances in using statistical information for analyzing public policy, and to get familiar with the issues for research.			
EC010104		CO2	This course also enables the students to understand the pre- reform and post-reform development experiences of the Indian Economy.			
		CO3	A thorough understanding of Indian economic policies is a must for post-graduate students of economics and that is what this course aims to develop among the students.			
		CO1	To introduce the students to several mathematical tools used in modern economics;			
EC010105	Mathematical	CO2	To illustrate the use of these tools by applying them to various well-known economic models; and			
EC010105	EC010105 Methods for Economic Analysis	CO3	To complement the core postgraduate microeconomic and macroeconomic theory courses. Learning outcomes: On completion of this unit, successful students should be able to demonstrate understanding of static optimization and dynamic systems applicable to economics.			
			SEMESTER 2			
EC010201	Microeconomics-II	CO1	To acquaint the student with decision making in the context of market interdependence, complexity, uncertainty and informational asymmetry			
2010201		CO2	To give insights into developments in the areas of general equilibrium and welfare economics  To enable the student to apply microeconomic principles in			
		COS	the areas of industrial organization, exchange, and welfare.			

		CO1	To understand the strengths and weakness of the main
EC010202			macroeconomic tools and models used in modern
			macroeconomics and moders used in modern
	Macroeconomics-II	CO2	To evaluate and critically compare results in alternative
EC010202		CO2	• •
		GOA	macroeconomic models
		CO3	Understand the importance and limitations of modeling
		GO1	assumptions for macroeconomic policy.
		CO1	To familiarize students about the rationale for and role of
			government intervention in economic activities and how
		CO2	the government makes economic decisions.  To develop the competence of the students to identify
		CO2	major issues in public finance for a critical evaluation of
EC010203	Public Economics		policies.
20010200		CO3	To enable them to use their skills in finding complete or
			partial solutions to those identified issues and also to
			demonstrate it through their presentations and contribute to
			the debate and policy in terms of a public policy paper
			appropriate to the discipline.
		CO1	To equip the students with the basic idea for further
			learning,
		CO2	To help them to analyze the sectoral development that has
			taken place in India.
		CO3	To know the principles governing fiscal federalism, state
- CO10001	Indian Economy-II		the provisions enshrined in Indian Constitution relating to
EC010204			division of financial powers between Union and States.
		CO4	To appreciate the role of Finance Commission which
			constitutes a pillar of India's federal structure, critically examine the various recommendations of Finance
			Commission and consider the dimension and nature of
			issues involved in contemporary situation prevailing in the
			country.
		CO1	To train students in the use of the most common statistical
	Ctatistical Matheal		tools and techniques encountered in economics for analysis
EC010205	Statistical Methods		of data with valid logical inferences.
EC010203	for Economic Analysis	CO2	· ·
		002	To gain a clear understanding of the inferential statistics as well as the interpretation of data.
			wen as the interpretation of data.
			SEMESTER 3
		CO1	To provide an understanding of the broad principles and
			theories, which govern the free flow of international trade,
			with empirical evidence.
EC010301	International	CO2	To provide an exposure to the theoretical underpinnings
	Economics		and empirical evidence of the major trade policies followed
		CO2	both at national and international level.
		CO3	To prepare them to become trade policy-makers and key
		CO1	strategists on trade issues.
		COI	To demonstrate their understanding of the appropriate
		CO2	econometric methods for analyzing data
EC010302	Econometrics-I	CO2	To interpret computer output for the estimation and testing
		CO2	of econometric relationships; and
		CO3	To interpret and discuss results
L	1	1	1

	1	1	
EC010303	Heterodox Economics	CO1	To revisit a set of economic concepts that are being extensively used in the economics curriculumbut with a critical stance that concentrates on philosophical and methodological considerations.
		CO2	This course will survey contemporary heterodox approaches to economic research, both from a microeconomic and a macroeconomic perspective.
			To provide students with the tools to understand how market inefficiencies might arise in the presence of externalities like pollution and how market solutions can correct market failures.
EC010304	Environment	CO2	To equip with analytical skills that would enable the evaluation of environmental and economic policy issues.
	Economics	CO3	To enable students to understand the economics of the relationship between economic activities and environmental impacts.
		CO4	To build on the knowledge of students in microeconomics and public economics.
EC010305	EC010305 Kerala Economy	CO1	To teach the students about Kerala's development experiences in historical perspective and to understand the current economic scenario and their routes in historical and
		CO2	global perspective.  To make students aware of burning issues in agriculture, industrial and social sectors of Kerala economy.
			SEMESTER 4
		CO1	To understand different aspects of international finance and
	International Finance		financial institutions in a historic cum emerging geopolitical context particularly in that of globalization.
EC010401		CO2	To equip students with both fundamental knowledge in international finance, financial institutions and their application in real life.
		CO3	To provide knowledge of these issues and understand about policy-making on issues related to international finance and related institutions.
		CO1	To acquaint with advanced techniques in time-series and panel-data analysis as well as implementation of theory through software applications to gear them towards execution of independent research projects.
		CO2	To use methods and to develop an understanding of how specific empirical questions determine the empirical approach to be used.
EC010402	Econometrics-II	CO3	To introduce students to basic modelling techniques in the analysis of cross-section, panel and time series economic data and to provide them with sufficient econometric training to read the applied literature in core journals which use these standard techniques.
		CO4	To prepare students for analysing data using basic econometric techniques and to interpret the results from regression models, understand how to use instrumental variables to account for endogenous regressors, to estimate binary response models; understand how to set up, estimate and analyze panel data regression models, understand the basic concepts of stationary and nonstationary time series

		005	T 1 ( 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		CO5	To understand and apply basic linear models for univariate
			and multivariate time series; understand the concepts of
			integration and co-integration and how to test for these
		G 0.1	phenomena in time series.
		CO1	To expose the students to the concepts, significance and
			uses of production economics in an agricultural context
		CO2	To provide orientation to the students regarding the
			agricultural policies and its effect on sustainable
			agricultural development and to make them to understand
	Agricultural		the globalization and its impact on agricultural
EC800401	Economics		development
		CO3	To expose the students to the various kinds of risk in
			farming, risk management strategies and mechanisms and
			insurance policies
		CO4	To apprise students regarding various aspects of agro-food
			marketing and to develop understanding regarding issues in
			agricultural markets.
		CO1	To expose the students to theoretical as well as empirical
	Labour Economics		issues relating to the labour market.
EC800403		CO2	To provide an empirical understanding of the labour
			market and enable the students to understand applications
			of formal theoretical models in labour economics to the
			Indian labour market.
		CO1	To familiarize students with a broad range of the methods
			and models applied by economists in the analysis of firms
			and industries
		CO2	To provide a detailed understanding of policy debates
			involved in industrial development in India.
		CO3	To obtain a glimpse of the recent developments in this field
			and enhance their analytical skill. This course offers a rich
	Industrial		and diverse platform to explore the core of the economic
EC800402	Economics		theory, using real-world examples and encouraging unique
20000102	20000000		and innovative problem-solving techniques.
		CO4	To understand basic models of the behavior of firms and
			industrial organization and how they can be applied to
			policy issues; be able to manipulate these models and be
			able to solve analytically problems relating to industrial
			economics;
		CO5	To familiarize with the history of competition policy and
			the functioning of different experimental market
			institutions and the key results of these experiments.

# **Course Outcomes of M. Com.**

<b>Course Code</b>	Course Title	Course Outcomes				
	SEMESTER 1					
		practic	ing an in depth understanding about theoretical and al aspects of major Accounting Standards to apply the different practical situations.			
		on the and wi	ain the value of goodwill and value of companies based value of shares and compare the real value of shares the the market prices and identify the mispricing.			
CM010101	Specialised Accounting	conside	h understanding about the determination of purchase eration in the event of amalgamation and to prepare nalgamation financial statements			
		NBFC	p a clear understanding about different types of s, their provisioning norms and to understand the t of NAV of mutual funds through its computation.			
			nt with the theoretical aspects of emerging areas in			
		behavi				
CM010102	Organisational	person	good understanding about individual behaviour, ality and motivation.			
CIVIOTOTO	Behaviour	leaders	ing deep understanding about group behaviour and hip related to organisational behaviour.			
		manage	e knowledge base of the leaner regarding change ement and deal with stress.			
	Marketing	like cu delight				
CM010103			arner should get a clear understanding about the market ntation process and its applications in marketing ies.			
	Management	CO3 Develo	p an idea about consumer behaviour and its impact.			
		equity,	anderstanding about product line, product mix, brand brand identity, brand personality and brand image.			
		quality				
		optimis	p theoretical understanding about various business sation models.			
CM010104	Management Optimisation	problei	to develop Linear Programming Models for business ms and Solve the same.			
	Techniques	transpo	ation of Linear Programming in the areas of ortation and assignment.			
		replace	p decision making skills under uncertainty, risk and ment of assets.			
		social s	p a thorough understanding about the basic concepts of science research.			
	Methodology for	formul	ompleting this module, the learner should be able to ate a research design.			
CM010105	Social Science Research		tudying the theoretical aspects of sampling design, the should be able to draw a sampling design.			
		CO4 Detaile	ed knowledge about the instrument development, its ion and different forms of scaling.			
			stand the technique of research reporting.			

SEMESTER 2					
		CO1	The learner should be able to prepare consolidated financial		
			statements of group companies.		
		CO2	Preparation of the financial statements of public utility		
			companies and deal with the disposal of surplus.		
	Advanced	CO3	Develop and awareness on the procedure of bankruptcy under		
CM010201	Corporate		the recent Bankruptcy Procedure Code.		
01/1010201	Accounting	CO4	Familiarising the learner with the accounting procedures of		
	Tree ounting		liquidation of companies and preparation of various		
		005	statements required as per the Companies Act.		
		CO5	Basic understanding about the preparation of accounts of		
			some special lines of businesses like shipping, hospitals and hotels.		
		CO1	Acquaintance with basic concepts of HRM and performance		
		COI	appraisal.		
		CO2	Understanding about human resource development, stress		
		002	management and work life management.		
CM010202	Human Resource	CO3	High level knowledge about various aspects of training.		
	Management	CO4	Understanding about various aspects of industrial relations so		
			as to evaluate the real cases of industrial relations.		
		CO5	Understanding about HR outsourcing HR accounting and HR		
			audit.		
		CO1	Familiarisation with globalisation, internationalisation of		
			business and the international business environment.		
	International Business and	CO2	Understanding about theories of international trade, trade		
			barriers and trade blocks.		
CM010203		CO3	Imparting idea about various economic institutions related to		
	Finance	004	international trade.		
		CO4	Achieve high level knowledge about various aspects of		
		CO5	international monetary system.  Develop an understanding about the international investment		
		003	environment.		
		CO1	This course intends to give understanding about the		
			applications of quantitative techniques.		
		CO2	This course intends to give understanding about the		
			applications of quantitative techniques.		
	Quantitative	CO3	After learning this course, the student should be in a position		
CM010204	Techniques		to identify appropriate parametric test for testing the		
	rechinques		hypotheses.		
		CO4	The learner should be equipped with the skills to identify the		
			most suitable non parametric test for testing a hypothesis.		
		CO5	The learner should be equipped with the skills to apply the		
		GO1	principles of SQC		
		CO1	Strong understanding about the theoretical foundations of		
		CO2	strategic management.  Clear understanding about various models of anvironmental		
		CO2	Clear understanding about various models of environmental and internal analysis.		
	Stratagia	CO3	Development of an idea about the strategy formulation		
CM010205	Strategic		process at the corporate level.		
	Management	CO4	Familiarization with various tools strategic planning and		
			evaluation.		
		CO5	Understanding about the modes of implementation and		
			control of strategies.		
		<u> </u>	volidor or bitatograp.		

SEMESTER 3					
		CO1	Learn the theoretical foundations of financial management		
CM010301			and financial management decisions.		
		CO2	Evaluate the feasibility of different options regarding		
	Stratogia		discount, credit period, storage cost etc related to current		
	Strategic Financial		assets and current liabilities and estimate working capital		
			requirements.		
	Management	CO3	Evaluate long term proposals and evaluate the risk associated		
			with long term investment.		
		CO4	Evaluate the decisions regarding leasing of capital assets.		
		CO5	Evaluate and Compare the performance of business entities.		
	Income Tax - Law and Practice	CO1	Acquire knowledge regarding the basic concepts of Income		
		G02	Tax.		
		CO2	Able to compute the income from salary and house property.		
CM010302		CO3	Determine taxable profit of a business or profession.		
		CO4	Able to compute capital gain and income from other sources.		
		CO5	Able to calculate Gross Total Income of an individual.		
		CO6	Learner shall be able to determine eligible deductions and		
		CO1	compute Taxable Income and tax liability of an individual.		
		COI	Able to understand the concepts of investments, different types of investments, views of investment and process of		
			investment and apply the theoretical knowledge in investment		
			information for selecting the securities		
	Security Analysis and Portfolio Management	CO2	Understanding the types of risk in security market and		
			Applying various tools for the valuation of bonds as well as		
			economic indicators to predict the market.		
CM010303		CO3	Understand the tools of technical analysis, analyse the		
			patterns and trends in the market by using various tools and		
			enable to take investment decisions after understanding		
			market efficiency level also.		
		CO4	Applying Modern portfolio theories and construct optimum		
			portfolios.		
		CO5	Revising constructed portfolios as per risk and return		
			association by using different strategies.		
	Indirect Tax Laws	CO1	Understand the basic concepts of the Goods and Services Tax		
		CO2	Develop a clear idea about the levy and collection of tax and		
			tax credit		
		CO3	Develop the knowledge about the provisions regarding		
CM800301			registration, preparations of books of accounts and filing of		
		CO4	returns under the Act		
		CO4	Understand about the powers of GST authorities regarding		
		CO5	inspection, search and seizure  Regio understanding about the Customs Law in India		
		<u>CO3</u>	Basic understanding about the Customs Law in India.		
		CO1	SEMESTER 4		
	Advanced Cost and Management Accounting	CO1	Apply activity-based absorption methods instead of		
CM010401		CO2	conventional absorption method.		
		CO2	Apply the marginal costing principles in decision making		
		CO3	situations of businesses.  Dealing with practical cases of pricing decisions in different		
		003	situations		
		CO4	Understand the concepts of standard costing, and the process		
		004	of cost control through it.		
		CO5	Deal with the practical issues related to transfer pricing		
	1		Dom with the practical issues related to transfer pricing		

CM010402	Income Tax – Assessment & Procedures	CO1	Compute the total income and tax liability of firms and Association of Persons
		CO2	Carry out assessment of companies and determine their tax liability
		CO3	Make the assessment of co-operative societies and trusts.
		CO4	Understanding about the assessment procedures, TDS and advance payment of tax and application in various situations
		CO5	Learn tax planning concepts and apply the same
CM800401	Derivatives and Risk Management	CO1	Knowledge about the derivative market in India, its evolution, types, players, risks involved and basic quantitative foundations
		CO2	Analyze the implications of Risk in the perception of individuals and Institutions and measurement of risks
		CO3	Understand and explain the concept of forward market and its function
		CO4	Analyse the operation and pricing of various types of futures
		CO5	Understand the concepts and methodology of option trading and apply the models of pricing the option contracts
		CO6	Develop an idea of exchanges through swaps
CM800402	Personal Investment and Behavioural Finance	CO1	Understand the meaning and significance of Financial literacy, Financial Discipline & Financial Competency, the role of family and parents in financial socialisation
		CO2	Understand and Evaluate the Significance of savings on financial destiny and it relationship with Consumerism and to understand the different elements/steps in Personal Financial Planning to attain Financial Well Being and Evaluate the different retail investment avenues.
		CO3	Know the meaning of Behavioural Finance, its evolution and related theories
		CO4	To understand different Heuristics, Biases and other Irrational Investment Behaviours
		CO5	Understand the relationship between biases and to adopt techniques to lower the impact of biases