

BSc. BOTANY

**PROGRAMME AND
COURSE OUTCOMES**

BSc. Botany

Programme Outcomes

PO1	To impart knowledge of science is the basic objective of education.
PO2	To develop scientific attitude is the major objective to make the students open minded, critical, curious.
PO3	To develop skill in practical work, experiments and laboratory materials and equipment along with the collection and interpretation of scientific data to contribute the science
PO4	To understand scientific terms, concepts, facts, phenomenon and their relationships.
PO5	To make the students aware of natural resources and environment.
PO6	To provide practical experience to the students as a part of the course to develop scientific ability to work in the field of research and other fields of their own interest and to make them fit for society.
PO7	The students are expected to acquire knowledge of plant and related subjects so as to understand natural phenomenon, manipulation of nature and environment for the benefit of human beings.
PO8	To develop ability for the application of the acquired knowledge to improve agriculture and other related fields to make the country self-reliant and sufficient.
PO9	Understand and appreciate the role of biology in societal issues, such as the environment and biological resources, biodiversity, ethics and human health and diseases.
PO10	To enrich the students with the latest developments in the field of Information technology, Biotechnology, Bioinformatics and other related fields of research and development.
PO11	To create enthusiasm to understand more about the beautiful planet Earth and to give awareness to the public the need to protect the planet from all kinds of exploitation
PO12	To keep the scientific temper which the student acquired from school level and to develop a research culture
PO13	To introduce the students to industrial activities related to Botany and to get an industry orientation and skills.

Course Outcomes

Semester 1

COURSE TYPE	LANGUAGE COURSE I
COURSE NAME	LANGUAGE SKILLS
COURSE CODE	EN111.1
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Master the language for personal and professional growth.
CO2	Acquire basic language skills through interactive classroom sessions.
CO3	Connect language with literature.

COURSE TYPE	ADDITIONAL LANGUAGE I
COURSE NAME	MALAYALAM POETRY
COURSE CODE	ML 1111.1
CREDIT	3
HOURS	4
COURSE OUTCOMES	
CO1	Gaining an awareness of the historical development of Malayalam poetry.
CO2	The poetic taste and interest in poetry is developed.
CO3	A finer understanding of poetic elements emerges.
CO4	Ability to critically analyse poems.
CO5	Comparatively defining writing poems.
CO6	Preparing a poetry review.

COURSE TYPE	LANGUAGE COURSE I
COURSE NAME	HINDI KAHANI SAHITYA
COURSE CODE	HN 1111.1
CREDIT	3
HOURS	4

COURSE OUTCOMES	
CO1	Recollect the main works of the representative story writers
CO2	Understand the craft of the different story writers
CO3	Analyze and evaluate the works of the story writers they studied
CO4	Understand how the resource language is used as a medium in creative writing

COURSE TYPE	LANGUAGE COURSE I
COURSE NAME	GRAMMAR, COMMUNICATION, POETRY, HISTORY OF SYRIAC LITERATURE
COURSE CODE	SR 1111.1
CREDIT	3
HOURS	4
COURSE OUTCOMES	
CO1	To communicate effectively
CO2	Understand the craft of constructing conversations
CO3	Articulation and expression of ideas
CO4	Understand and assimilate ideas in a text

COURSE TYPE	FOUNDATION COURSE I
COURSE NAME	WRITINGS ON CONTEMPORARY ISSUES
COURSE CODE	EN1121
CREDIT	2
HOURS	4
COURSE OUTCOMES	
CO1	Sensitize students to the major issues in the society and the world.
CO2	Introduce and provide varied perspectives on contemporary issues.
CO3	Encourage critical and analytical skill.

COURSE TYPE	CORE COURSE I
COURSE NAME	ANGIOSPERM ANATOMY, REPRODUCTIVE BOTANY AND PALYNOLOGY
COURSE CODE	BO 1141

CREDIT	3
HOURS	Theory-2 Practical-2
COURSE OUTCOMES	
CO1	Students are able to understand the complexities of cell wall organization, microscopic and sub microscopic structures.
CO2	Students can distinguish various anatomical features of monocots and dicots (stem and root) with respect to permanent tissues and tissue systems.
CO3	Identify and differentiate male and female gametophyte development in angiosperms.
CO4	Distinguish monocot and dicot embryo and the basic features of pollen grains.

COURSE TYPE	COMPLEMENTARY COURSE I
COURSE NAME	ANALYTICAL AND ENVIRONMENTAL CHEMISTRY
COURSE CODE	CH1131.3
CREDIT	2
HOURS	4
COURSE OUTCOMES	
CO1	Discuss Bohr atom model and represent electronic configuration of elements
CO2	Predict structure of simple molecules based on the concept of hybridisation. Identify hydrogen bonding in relation to physical and chemical properties. List the various chemical bonds. Apply the VSEPR theory to explain the geometry of molecules.
CO3	To get an understanding on analytical principles and theory behind indicators used in volumetric analysis
CO4	Become aware of threat of chemical pollutants air, water and soil

COURSE TYPE	COMPLEMENTARY COURSE II
COURSE NAME	Animal Diversity I
COURSE CODE	ZO 1131
CREDIT	2
HOURS	4
COURSE OUTCOMES	

CO1	Impart to the student a concrete idea of the evolution, hierarchy and classification of invertebrate phyla
CO2	Impart to the student a concrete idea of the evolution, hierarchy and classification of invertebrate phyla
CO3	Getting an overview of typical examples in each phyla.
CO4	To study the economic importance of invertebrates with the special reference to insect pests

Semester 2

COURSE TYPE	LANGUAGE COURSE III
COURSE NAME	ENVIRONMENTAL STUDIES AND DISASTER MANAGEMENT
COURSE CODE	EN1121.1
CREDIT	5
HOURS	5
COURSE OUTCOMES	
CO1	Engage with a wide range of issues in environmental studies and disaster management.
CO2	Acquire values for environmental protection and conservation.
CO3	Recognise the ecological basis for regional and global environmental issues
CO4	Manage natural disasters and other emergency situations
CO5	Develop a critical vocabulary related to environmental studies and disaster management.

COURSE TYPE	LANGUAGE COURSE IV
COURSE NAME	ENGLISH GRAMMAR USAGE AND WRITING
COURSE CODE	EN1212.1
CREDIT	4
HOURS	4
COURSE OUTCOMES	
CO1	Acquire good understanding of modern English grammar.
CO2	Write grammatically and idiomatically correct language.
CO3	Improve verbal communication skill.
CO4	Minimize mother tongue influence.

COURSE TYPE	LANGUAGE COURSE V
SEMESTER	II
COURSE NAME	LITERATURE OF PROSE
COURSE CODE	ML 1211.1
CREDIT	3
HOURS	4
COURSE OUTCOMES	
CO1	Enables general awareness of major literary forms in Malayalam prose.

CO2	Researching and analysing the evolution of prose forms.
CO3	The imaginative ability to analyse texts is developed.
CO4	Comparatively observes the writing style of the writers.
CO5	Critical studies are prepared by analysing the content, language, socio-political perspective and aesthetic level of the writings.

COURSE TYPE	LANGUAGE COURSE V
COURSE NAME	KATHETAR HIDI GADYA VIDHAAYEIN
COURSE CODE	HN 1211.1
CREDIT	3
HOURS	4
COURSE OUTCOMES	
CO1	Recollect the main works of the prescribed writers
CO2	Understand the forms of various prose writing in Hindi
CO3	Analyses & evaluate the prose forms prescribed, with respect to the craft and the relevance

COURSE TYPE	LANGUAGE COURSE V
COURSE NAME	GRAMMAR, COMMUNICATION, POETRY, HISTORY OF SYRIAC LITERATURE
COURSE CODE	SR 1211.1
CREDIT	3
HOURS	4
COURSE OUTCOMES	
CO1	To enrich vocabulary and conversational articulation
CO2	Understand the forms of various genres of writings in Syriac
CO3	Analyse and evaluate the history of Syriac literature

COURSE TYPE	FOUNDATION COURSE II
COURSE NAME	METHODOLOGY AND PERSPECTIVES OF PLANT SCIENCES
COURSE CODE	BO 1221
CREDIT	3
HOURS	Theory-2 Practical-2
COURSE OUTCOMES	

CO1	To familiarize the students with the fundamental characteristics of science and significance of scientific studies
CO2	To apply scientific methods independently and familiarize instruments in biological labs
CO3	To interpret scientific data using basic statistical methods
CO4	To develop skills for microscopic specimen preparation.
CO5	To familiarize the students with the fundamental characteristics of science and significance of scientific studies.

COURSE TYPE	COMPLEMENTARY COURSE III
COURSE NAME	INORGANIC & BIOINORGANIC CHEMISTRY
COURSE CODE	CH1231.3
CREDIT	2
HOURS	4
COURSE OUTCOMES	
CO1	Understand the biological and environmental aspects of organic compounds.
CO2	Comprehend the meaning of stability of nucleus. Summarise the applications of radioactivity.
CO3	Predict the properties of transition metal complexes A 5 Apply complexation reactions in qualitative and quantitative analysis
CO4	Appreciate biological processes like photosynthesis, respiration etc. Realise the use of trace elements in biochemical processes.

COURSE TYPE	COMPLEMENTARY COURSE IV
COURSE NAME	Animal Diversity II
COURSE CODE	ZO 1231
CREDIT	2
HOURS	4
COURSE OUTCOMES	
CO1	Learn the evolution. hierarchy and classification of different classes of chordates
CO2	To get an overview of the morphology and physiology of typical examples.
CO3	To study the adaptations and economic importance of specific vertebrates.

Semester 3

COURSE TYPE	LANGUAGE COURSE VI
COURSE NAME	ENGLISH FOR CAREER
COURSE CODE	EN1311.1
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Introduce students to the language skills required for appearing in career oriented competitive examinations.
CO2	Develop cognitive, logical, verbal and analytical skills necessary to succeed in competitive examinations.
CO3	Provide the pattern of questions based on common models of competitive tests.
CO4	Help students to prepare for and appear in competitive examinations.

COURSE TYPE	LANGUAGE COURSE VII
COURSE NAME	LANGUAGE AWARENESS AND CREATIVITY
COURSE CODE	ML 1311.1
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Understanding the usage patterns of Malayalam language.
CO2	Acquiring the skill to use language correctly.
CO3	Gaining proficiency in elementary grammar lessons and self-assessment.
CO4	Gaining practical training in translation and conducting and evaluating translation essays.
CO5	Gaining insight into the creative lives of writers and observing them comparatively.
CO6	Creating new compositions.

COURSE TYPE	LANGUAGE COURSE VII
COURSE NAME	HINDI KAVITA SAAHITYA
COURSE CODE	HN 1311.1
CREDIT	4
HOURS	5

COURSE OUTCOMES	
CO1	Appreciates ancient and modern Hindi poems.
CO2	Critically evaluates the contribution of Ancient and modern poets to the development of Hindi poetry
CO3	Elucidates key lines of poetry with reference to context.

COURSE TYPE	LANGUAGE COURSE VII
COURSE NAME	GRAMMAR, COMMUNICATION, PROSE, HISTORY OF SYRIAC PEOPLE IN INDIA
COURSE CODE	SR 1311.1
CREDIT	3
HOURS	5
COURSE OUTCOMES	
CO1	To develop LSRW skills.
CO2	Critically evaluate the aesthetics of literature
CO3	Understands how past influences the present

COURSE TYPE	CORE COURSE II
COURSE NAME	MICROBIOLOGY, PHYCOLOGY, MYCOLOGY, LICHENOLOGY AND PLANT PATHOLOGY
COURSE CODE	BO 1341
CREDIT	3
HOURS	Theory-3 Practical-2
COURSE OUTCOMES	
CO1	The student can prepare micro preparations and identify the thallus and reproductive structures of lower plant groups like algae, fungi and lichen
CO2	An awareness created among students about various microbes, structure and economic importance
CO3	Students can use effectively the methodology to isolate and identify bacteria present in curd and root nodules
CO4	Can identify various plant diseases, etiology of pathogens and control measures
CO5	Able to prepare fungicides like tobacco decoction and Bordeaux mixture

COURSE TYPE	COMPLEMENTARY COURSE V
COURSE NAME	PHYSICAL CHEMISTRY
COURSE CODE	CH1331.3
CREDIT	3
HOURS	5
COURSE OUTCOMES	
CO1	Classify reactions based on order and molecularity. Understand the effect of temperature on reaction rates. Understand the theories of catalysis.
CO2	Categorize compounds into acids and bases. To get an idea about pH and its determination - potentiometric method, Henderson equation, salt hydrolysis.
CO3	To understand about completely miscible, partial miscible and immiscible liquid pairs.
CO4	Discussion on the principle and application of UV and NMR spectroscopy.
CO5	To know about Molarity, molality, mole fraction and Colligative properties
CO6	Understand the properties of colloids and their application.

COURSE TYPE	COMPLEMENTARY COURSE VI
COURSE NAME	FUNCTIONAL ZOOLOGY
COURSE CODE	ZO 1331
CREDIT	3
HOURS	5
COURSE OUTCOMES	
CO1	To study the structure and function of each system in the human body.
CO2	To study the etiology of common physiological disorders, syndromes and diseases.

Semester 4

COURSE TYPE	LANGUAGE COURSE VIII
COURSE NAME	READINGS IN LITERATURE
COURSE CODE	EN 141.11
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Familiarize with various genres of writing.
CO2	Able to effectively read and appreciate literature
CO3	Acquire critical thinking by reading between the lines

COURSE TYPE	LANGUAGE COURSE IX
COURSE NAME	LITERATURE OF VISUAL ARTS
COURSE CODE	ML 1411.1
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Discovers and describes the richness and diversity of Kerala's visual arts.
CO2	Examining the evolution from composition to practice.
CO3	Kathakali, OttanTullal, Drama and Cinema art forms and the literary works based on them are evaluated together.
CO4	Critically enjoying the visual arts.
CO5	Writing Plays and Screen plays.
CO6	Leads the creative expression of arts such as acting, screen play writing, Play writing

COURSE TYPE	LANGUAGE COURSE IX
COURSE NAME	HINDI KAVITA SAAHITYA
COURSE CODE	HN 1411.1
CREDIT	4
HOURS	5
COURSE OUTCOMES	
CO1	Appreciate and evaluate one act plays with respect to craft and subject.
CO2	Understand the correct usages in Hindi and write grammatically correct sentences in Hindi.
CO3	Define parts of speech and identify the parts of speech in a given

	sentence.
CO4	Translate simple passages from English to Hindi.

COURSE TYPE	LANGUAGE COURSE IX
COURSE NAME	GRAMMAR, COMMUNICATION, PROSE, HISTORY OF SYRIAC PEOPLE IN INDIA
COURSE CODE	SR 1411.1
CREDIT	3
HOURS	5
COURSE OUTCOMES	
CO1	Enhance integral development through effective communication
CO2	Understand the correct usages in Syriac and write grammatically correct sentences.
CO3	Develop imagination by comprehending the aesthetics of literature.
CO4	To apply historical knowledge in solving present problems

COURSE TYPE	CORE COURSE III
COURSE NAME	BRYOLOGY, PTERIDOLOGY GYMNOSPERMS AND PALEOBOTANY
COURSE CODE	BO 1441
CREDIT	3
HOURS	Theory-3 Practical-2
COURSE OUTCOMES	
CO1	To familiarize the students' characteristic features and evolutionary significance of Bryophytes, Pteridophytes and Gymnosperms
CO2	To generate awareness about lifecycle of Bryophytes, Pteridophytes and Gymnosperms
CO3	To impart knowledge about fossil formation and its significance
CO4	Describe the concepts potential functions, line integrals and surface integrals

COURSE TYPE	COMPLEMENTARY COURSE VII
COURSE NAME	ORGANIC CHEMISTRY
COURSE CODE	CH1431.3
CREDIT	3

HOURS	Theory-3
COURSE OUTCOMES	
CO1	Discuss the principle and applications of chromatography and electrophoresis
CO2	Summarise the concept of optical isomerism .
CO3	Classification of amino acids, proteins, carbohydrates and vitamins. Identify and distinguish the structure of amino acids, peptides, proteins and nucleic acids. Explain the preparation and reactions of amino acids and carbohydrates.
CO4	Discuss the extraction process and general properties of natural products -oils, fats, terpenes and alkaloids.
CO5	Understand about carbohydrates and their structures. Draw the structure of aminoacids, carbohydrates, simple optical isomers
CO6	Categorise crude drugs and explain the method of evaluating crude drugs.

COURSE TYPE	COMPLEMENTARY PRACTICAL
COURSE NAME	ORGANIC AND VOLUMETRIC ANALYSIS
COURSE CODE	CH 1432.3
CREDIT	2
HOURS	Practical-2
COURSE OUTCOMES	
CO1	Obey Lab safety instructions, develop qualities of punctuality, regularity and scientific attitude, outlook and scientific temper (GOOD LAB PRACTICES)
CO2	Develop skill in safe handling of chemicals, take precaution against accidents and follow safety measures
CO3	Develop skill in observation, prediction, and interpretation of reactions. Prepare organic compounds, Purify and recrystallise.
CO4	Develop skill in weight calculation for preparing standard solutions.
CO5	Perform volumetric titrations under acidimetry-alkalimetry, permanganometry, dichrometry, iodimetry, iodometry, cerimetry, argentometry and complexometry
CO6	Conduct chromatographic separation of mixtures

COURSE TYPE	COMPLEMENTARY COURSE VIII
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COURSE NAME	APPLIED ZOOLOGY
COURSE CODE	ZO 1431
CREDIT	3
HOURS	Theory-3
COURSE OUTCOMES	
CO1	To learn the basic principles involved in the culture and breeding of common, edible and ornamental fishes of Kerala and the art of aquarium keeping.
CO2	To get a basic understanding of human genomics and reproductive biology including stem cell research and prenatal diagnostic techniques

COURSE TYPE	COMPLEMENTARY PRACTICAL
COURSE NAME	ANIMAL DIVERSITY I & II FUNCTIONAL ZOOLOGY AND APPLIED ZOOLOGY
COURSE CODE	ZO 1432
CREDIT	3
HOURS	Practical-2
COURSE OUTCOMES	
CO1	To learn the basic principles involved in the culture and breeding of common, edible and ornamental fishes of Kerala and the art of aquarium keeping.
CO2	To get a basic understanding of human genomics and reproductive biology including stem cell research and prenatal diagnostic techniques
CO3	To familiarize students with conventional organ system in common, easily available animals.

Semester 5

COURSE TYPE	CORE COURSE IV
COURSE NAME	ANGIOSPERM MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, ETHNO BOTANY AND PHARMACOGNOSY
COURSE CODE	BO 1541
CREDIT	4
HOURS	Theory-4 Practical-3
COURSE OUTCOMES	
CO1	Ability to identify different types of inflorescences, flowers and fruits, their arrangement and relative position
CO2	Familiarization of basic rules of Angiosperm classification and different types of classification
CO3	Preparation and maintenance of Herbarium.
CO4	Identification of plants to their respective families.
CO5	Understanding of ethnobotanical and pharmacological significance of plants.

COURSE TYPE	CORE COURSE V
COURSE NAME	ENVIRONMENTAL STUDIES, DISASTER MANAGEMENT, PHYTOGEOGRAPHY & RESEARCH METHODOLOGY
COURSE CODE	BO 1542
CREDIT	4
HOURS	Theory-5 Practical-2
COURSE OUTCOMES	
CO1	Develops awareness about natural resources, its conservation and importance of sustainable lifestyles
CO2	Understands and identify different ecosystems and ecosystem processes.
CO3	Develops deep understanding about biodiversity and importance of its conservation
CO4	Develops skills to identify polluted sites, its major pollutants and

	recognize the need to mitigate environmental pollution
CO5	Awareness about different types of disasters and to adopt strategies to overcome and reduce the impact
CO6	Identify the importance of phytogeographical sites in India
CO7	Can devise an experimental design and carry out a project
CO8	Students trained about various steps for the conduct of a research project and write a project report

COURSE TYPE	CORE COURSE VI
COURSE NAME	CELL BIOLOGY, GENETICS AND EVOLUTIONARY BIOLOGY
COURSE CODE	BO 1543
CREDIT	3
HOURS	Theory-4 Practical-2
COURSE OUTCOME	
CO1	Students have a better understanding of cell structure and cell organelles
CO2	Prepare microslides of cell divisions and identify various stages of mitosis and meiosis
CO3	Able to work out problems in classical genetics, modified mendelian ratios and population genetics
CO4	Able to understand genetic diseases and their inheritance
CO5	Understand evolutionary principles, theories and methods of speciation

COURSE TYPE	OPEN COURSE
COURSE NAME	HORTICULTURE
COURSE CODE	BO1551.1
CREDIT	2
HOURS	3

COURSE OUTCOMES	
CO1	Students are familiarized in horticulture implements and methods of gardening
CO2	Better understanding of commercial horticulture, flower arrangement, cut flowers
CO3	Can understand about land scaping, fertilizers and Plant protection

COURSE TYPE	PROJECT
COURSE NAME	PROJECT
COURSE CODE	B0 1646
CREDIT	3
HOURS	2
COURSE OUTCOMES	
CO1	To inculcate proficiency to identify appropriate research topics and presentation
CO2	Research and analyse the content or matter.
CO3	Assimilate and present the matter in specific model.

Semester 6

COURSE TYPE	CORE COURSE IX
COURSE NAME	PLANT PHYSIOLOGY AND BIOCHEMISTRY
COURSE CODE	BO 1641
CREDIT	4
HOURS	Theory-5 Practical-2
COURSE OUTCOME	
CO1	Students get a clear understanding of the basic concepts of Physiology and Biochemistry.
CO2	Understands photosynthesis, respiration, plant growth regulators, nitrogen metabolism, and stress physiology.
CO3	Familiarization of basic physiological practical procedures.
CO4	Students get the basic knowledge about the macromolecules and their overall role in cell metabolism; and secondary plant products.
CO5	Identification of protein, reducing and non-reducing sugar by qualitative tests.

COURSE TYPE	CORE COURSE X
COURSE NAME	MOLECULAR BIOLOGY, GENERAL INFORMATICS & BIOINFORMATICS
COURSE CODE	BO 1642
CREDIT	4
HOURS	Theory-4 Practical-2
COURSE OUTCOMES	
CO1	Understands DNA as genetic material, develops awareness about chemical composition and different types of DNA including their replication method.
CO2	Students understand various molecular aspects of gene expression and regulation of genes
CO3	Develops awareness about various academic services applied for their studies

CO4	Awareness about features of a computer, different application and system software.
CO5	Recognizes the need for safe use of internet and also become aware about health issues related to over usage of computers and mobile phones as well as cybercrimes and cyber laws.
CO6	Students will be familiarized to molecular phylogeny, Biological Databases, Sequence analysis, Genomics, Proteomics & Comparative genomics

COURSE TYPE	CORE COURSE XI
COURSE NAME	BIOTECHNOLOGY, NANOBIO TECHNOLOGY, HORTICULTURE & PLANT BREEDING
COURSE CODE	BO 1643
CREDIT	4
HOURS	Theory-4 Practical-2
COURSE OUTCOMES	
CO1	Students are familiarized in preparation of culture solutions, sterilization, inoculation of explants, induction of callus and morphogenesis
CO2	They are familiarized in biotechnological tools like RFLP, RAPD and PCR techniques
CO3	Appreciate the application of equipments and tools in biotechnology
CO4	Understanding of ethical and legal issues in biotechnology and basic knowledge about IPR
CO5	Better understanding of nanosystems, and applications of nanomaterials
CO6	Students able to identify and use various horticultural implements
CO7	Can propagate plants through grafting, budding and layering & can prepare manures, fungicides etc
CO8	Can effectively do plant breeding methods and understands their practical application in betterment of food crops

COURSE TYPE	INDUSTRY BASED ELECTIVE COURSE (D)
COURSE NAME	MEDICINAL BOTANY
COURSE CODE	BO 1661.4
CREDIT	2
HOURS	3
COURSE OUTCOMES	
CO1	Identify medicinal plants, describe its morphology, add medicinal knowledge about locally available plant.
CO2	Cultivate medicinal herbs, learn processing, storing and packing of medicinal produce.
CO3	Develop entrepreneurship skills to establish value addition products, botanical extracts and isolation of bioactive compounds.

COURSE TYPE	PROJECT
COURSE NAME	PROJECT
COURSE CODE	BO 1646
CREDIT	3
HOURS	3
COURSE OUTCOMES	
CO1	To inculcate proficiency to identify appropriate research topics and presentation
CO2	Research and analyse the content or matter.
CO3	Assimilate and present the matter in specific model.