

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



CRITERION 2 SSR CYCLE IV TEACHING-LEARNING AND EVALUATION

2.6. Student Performance and Learning Outcome

2.6.1: Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website



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A.P.C. MAHALAXMI COLLEGE FOR WOMEN

Thoothukudi- 628 002, Tamil Nadu.

PROGRAMME OUTCOME (PO)

Department of English - UG

At the end of the programme, the students will be able to:

PO - 1	Acquire knowledge of various literary works and students of thought
PO - 2	Explore the avenues of world literature
PO - 3	Utilize the skills acquired through the program
PO - 4	Think critically and apply theoretical approaches to literary texts
PO - 5	View and enjoy literary works through nuanced perspectives
PO - 6	Equip themselves to undertake research projects
PO - 7	Appreciate the unique merits of different literary genres
PO - 8	Acquaint themselves with the key concepts of language and linguistics

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Thoothukudi- 628 002, Tamil Nadu.

Department of English -PG

At the end of the programme, the students will be able to:

PO - 1	Comprehend the significance of literary works in their social, cultural, and ideological contexts.
PO - 2	Discover the incredible diversity of the English Language and Literature throughout the history of the world.
PO - 3	Ascertain how writers have reacted to the social developments of their contemporary period and produced a text.
PO - 4	Express The hermeneutic engagement of creative texts with gender, race, region and identity across various significations
PO - 5	Problematize the Post-colonial Literatures and cultures with a nationalist perspective.
PO - 6	Develop comprehensive reading, writing, and research skills of high order.
PO - 7	Undertake academic and literary profession.
PO - 8	Adapt themselves to the changing aspects of academic and creative professionalism.



Thoothukudi- 628 002, Tamil Nadu.

Department of History

At the end of the programme, the students will be able to:

PO - 1	Apply the acquired knowledge of fundamental concepts in the field of science and to find solutions to various problems
PO - 2	Inculcate innovative skills and teamwork among students to meet societal— expectations Perform analysis to assess, interpret, and create innovative ideas through practical experiments
PO - 3	Facilitate to enter the multidisciplinary path to solve day-to-day scientific problems
PO - 4	Carry out fieldwork and projects, both independently and in collaboration with others, and to report in a constructive way
PO - 5	Improve communication ability and knowledge transfer through ICT-aided learning integrated with library resources
PO - 6	Transfer the knowledge to the other stakeholders through an extensive community development program
PO - 7	Apply modern technology to solve any given problem

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Thoothukudi- 628 002, Tamil Nadu.

Department of Tamil - UG

இளங்கலைத் தமிழ் பயின்று முடித்த மாணவர்கள் பின்வரும் செயல்களைச் செய்யும் ஆற்றல்களைப் பெற்றிருப்பர்.

S.N O	GRADUATE ATTRIBUTES	PROGRAMME OUTCOMES
1.	அறிவாற்றல்	தமிழ் மொழி, இலக்கியம், இலக்கணம், மொழியியல், பண்பாடு, வரலாறு சார்ந்த அறிவையும் ஆற்றலையும் மாணவர்களிடையே வளர்த்தல். (PO1)
2.	மொழியாற்றல்	தான் கூற விரும்பும் கருத்துகளை இனிமையும், நயமும் சேர பிறர் ஏற்றுக்கொள்ளும் வகையில் பிழையில்லாமல் தேர்ந்த பேச்சு / எழுத்துகள்வழிக் கூறும் ஆற்றலை வளர்த்தல். (PO2)
3.	போட்டித் தேர்வுகள்	TNPSC, UPSC, TRB, TET போன்ற போட்டித் தேர்வுகளில் கலந்துகொண்டு வெற்றிபெறும் வகையில் தயார்படுத்தல். (PO3)
4.	படைப்பாற்றல்	படைப்பாற்றல், திறனாய்வுப் பண்புகள் நிறைந்தவர்களாக உருவாகுதல். (PO4)
5.	ஆளுமைப் பண்பு	பாடத்திட்டம் சார்ந்த பல்வேறு நிகழ்ச்சிகள் & போட்டிகள் வாயிலாக மாணவர்களின் திறன்களையும் ஆளுமைத் திறன்களையும் கண்டறிந்து வளர்த்தல். (PO5)
6.	அறம், பக்தி & சமூகப் பொறுப்பு	பாடத்திட்டத்தில் உள்ள அறம், பக்தி, இயற்கைப் பாதுகாப்பு சார்ந்த உணர்வுகளைத் தங்கள் வாழ்க்கையில் பயன்படுத்தல். (PO6)
7.	கற்றல் வேட்கை	தமிழின் தனிச்சிறப்பை / அடையாளத்தை / சுவையை / கற்பதன் மூலம் கற்றல் வேட்கை உருவாகி ஆய்வாளர், ஊடகவியலாளர், படைப்பாளர் எனப் பல தளங்களில் இயங்குதல். (PO7)
8.	நவீனக் காலத்துக்குத் தயாராதல்	சங்கத் தமிழைக் கற்பதோடு இக்காலத் தமிழையும் இணையத் தமிழையும் தன் வாழ்வில் பயன்படுத்தும் ஆற்றலைப் பெறுதல். (PO8)

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Thoothukudi- 628 002, Tamil Nadu.

Department of Tamil - PG

After successful completion of the degree course, the students will be qualified to

PO - 1	An understanding of how different perspectives of approach, can affect how a work is read.
PO - 2	Developing advanced skills in the complete understanding, analysis, and interpretation of literary facts.
PO - 3	Recognition of relationship between language and society.
PO - 4	Awareness about the literary and cultural expressions.
PO - 5	Exploring genres - Novel with social perspectives.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Commerce - UG

At the end of the programme, the students will be able to:

PO - 1	gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, and computer.
PO - 2	acquire practical knowledge to take up the task of accounting professionals.
PO - 3	serve as a launch pad for professional programs like CA, CMA, and ACS.
PO - 4	demonstrate progressive learning of various financial issues related to individuals and businessmen to setting up their own business start-ups.
PO - 5	do their higher education and build their career as business professionals.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Commerce - PG

At the end of the programme, the students will be able to:

	Apply the knowledge of Science & Arts to make queries and enhance
PO - 1	the comprehension potential.
	Insist the significance of conserving a clean environment for
PO - 2	perpetuation and sustainable development.
	To identify, formulate, perform research literature surveys, and
PO - 3	analyze complex problems.
PO - 4	To collaborate in order to analyze and find solutions of existing
	problems of India and the world.
	To establish themselves in hot areas of research and contribute to the
PO - 5	developmental needs of India and the world.
	To develop specific skills in planning and conducting advanced
PO - 6	experiments recording and analyzing the data and drawing the
	relevant conclusions from it.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Chemistry - UG

On successful completion of the programme students will able to:

PO - 1	Function as responsible individuals with ethical values, accountable to the community.
PO - 2	Gain detailed knowledge of the major areas of chemistry including a wide range of factual information and experimentally observed phenomena.
PO - 3	Apply chemical concepts in new situations and computational software in chemistry efficiently.
PO - 4	Think critically and analyze chemical problems.
PO - 5	Work effectively and safely in a laboratory environment.
PO - 6	Present scientific and technical information resulting from laboratory experimentation by means of oral presentation, scientific poster, or a written report.
PO - 7	Pursue higher education / employable/ entrepreneur.



Thoothukudi- 628 002, Tamil Nadu.

Department of Chemistry - PG

On successful completion of the programme students will able to:

PO - 1	Understand the basics of science and apply their knowledge in day- to-day life
PO - 2	Develop skills to carry out experiments in various branches of science.
PO - 3	Have enough scientific knowledge to go for higher studies and become an entrepreneur
PO - 4	Identify, formulate, and solve the technological problems of the industry
PO - 5	Effective written and oral communication skills especially the ability to transmit complex technical information in a clear and concise manner
PO - 6	Understand the issues of environmental contexts and sustainable development.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Computer Science - UG

On successful completion of the programme students will able to:

PO - 1	Be aware of the history of the discipline of latest technology and understand the 7 conceptual underpinnings of the subject
PO - 2	Illustrate the nature of the software development process, including the need to provide appropriate documentation
PO - 3	Be able to develop program in one or two programming languages.
PO - 4	Be able to analyze a technique for a specific problem to meet a particular objective.
PO - 5	Compare the basic theory of computer architectures, including computer hardware and networking
PO - 6	Construct new information technology applicable to the society, business and the individual, both from a technical and from an ethical and legal point of view.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Computer Science - PG

On successful completion of the programme students will able to:

PO – 1	Identify and understand the need for basic mathematical and Computational Concepts and apply them to real world problems.
PO – 2	Design and develop applications using computers to analyze and solve computer science related problems.
PO – 3	Design, implement and evaluate a computer-based system, process, component, or programs to meet the stakeholder needs
PO – 4	Analyze, design and choose efficient algorithms and apply them in appropriate Computational solutions
PO – 5	Analyze large data sets in the context of real world problems and interpret results using data analytics.
PO – 6	Understand research methods and apply them to analyze data for decision Making. PO7 Realize the importance of lifelong learning and continuous professional development.

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Thoothukudi- 628 002, Tamil Nadu.

Department of Mathematics - UG

On successful completion of the programme students will able to:

PO - 1	Bachelor's degree in mathematics is the Culmination of in - depth knowledge of algebra, calculus, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science and statistics. This program helps the learners in building a social foundation for higher studies in mathematics.
PO - 2	The skills and knowledge gained has intrinsic beauty, which leads to proficiency in analytical reasoning. This can be utilized in modelling and solving real life problems.
PO - 3	Students undergoing this programme learn to logically questions assertions, to recognize patterns and to distinguish between essential and irrelevant aspects of problems. They also share ideas and insights while seeking and benefitting from knowledge and insight of others. This helps to learn behave responsibly in a rapidly changing independent society.
PO - 4	Students completing this programme will able to present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non – mathematicians.
PO - 5	Completion of this programme will also enable the learners to join teaching profession in primary and secondary schools.
PO - 6	This programme will also help students to enhance their employability for government jobs, jobs in banking, insurance and investment sectors, data analyst jobs and jobs in various other public and private enterprises.



Thoothukudi- 628 002, Tamil Nadu.

Department of Mathematics - PG

On successful completion of the programme students will able to:

	Knowledge	Capable of demonstrating comprehensive
PO - 1		disciplinary knowledgegained during the course of
		study
	Research	Capability to ask relevant/appropriate questions
	Aptitude	for identifying, formulating, and analyzing the
10-2		research problems. and to draw conclusions from
		the analysis.
	Communication	Ability to communicate effectively on general and
PO - 3		scientific topics with the scientific community and
		with the society at large
	Problem-	The capability of applying knowledge to solve
PO - 4	Solving	scientific and other problems
	Individual and	Canable of learning and work effectively as an
PO - 5	Team Work	individual and as amember or leader in diverse
	realit work	teams, in multidisciplinary settings
	Investigation of	The ability of critical thinking, analytical reasoning.
	Problems	and research-based knowledge including design of
PO - 6		experiments, analysis, and interpretation of data to
		provide conclusions.
	Modern Tool	Ability to use and learn techniques, skills and
PO - 7	usage	modern tools for scientificpractices.
PO - 8	Science and	Ability to apply reasoning to assess the different
	Society	issues related to society and the consequent
		responsibilities relevant to the professional
.		scientific practices
PO - 9	Life-Long	Aptitude to apply knowledge and skills that are
	Learning	necessary for participating in learning activities
DO 10		throughout lite
PO - 10	Project	Ability to demonstrate knowledge and
	Management	understanding of the scientific principles and apply
		these to manage projects



Thoothukudi- 628 002, Tamil Nadu.

Department of Physics

On successful completion of the programme students will able to:

	Become successful professionals by demonstrating logical methods
r0-1	and analytical thinking abilities
	Demonstrate skills in the use of computers for control, data
r0-2	acquisition, and data analysis in experimental investigations
PO 2	Express their thoughts and ideas effectively in writing and orally they
10-5	can be communicable with others using appropriate media
	Apply the analytic thought to a body of knowledge; analyse and
PO - 4	evaluate the proofs, arguments, claims, and beliefs based on empirical
	evidences
PO - 5	Communicate effectively in inter-disciplinary environment, either
	independently or in a team, and demonstrate leadership qualities
PO - 6	Engage in life-long learning and professional development through
	self-study, continuing education, or professional and doctoral-level
	studies

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Thoothukudi- 628 002, Tamil Nadu.

Department of Zoology

On successful completion of the programme students will able to:

PO - 1	Apply the acquired knowledge of fundamental concepts in the field of science and to find solutions to various problems
PO - 2	Inculcate innovative skills and teamwork among students to meet societal expectations Perform analysis to assess, interpret, and create innovative ideas through practical experiments
PO - 3	Facilitate entering the multidisciplinary path to solve day-to-day scientific problems
PO - 4	Carry out fieldwork and projects, both independently and in collaboration with others, and to report in a constructive way
PO - 5	Improve communication ability and knowledge transfer through ICT- aided learning integrated with library resources
PO - 6	Transfer the knowledge to the other stakeholders through an extensive community development programme
PO - 7	Apply modern technology to solve any given problem

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Thoothukudi- 628 002, Tamil Nadu.

Programme Specific Outcome (PSO)

Department of English – UG

Upon completion of the B.A. English Literature Programme, students will be able to

PSO - 1	Acquire knowledge of the important historical and political milestones of England, from the early times to the present
PSO - 2	Develop an aptitude for critical analysis of literary works
PSO - 3	Find scope of employability in fields of teaching, content writing, translating, communication, and media
PSO - 4	Appreciate and develop the human values espoused in literary works
PSO - 5	Enhance their job potential by acquiring linguistic competence and effective communication skills
PSO - 6	Identify the correlation between literature and psychology
PSO - 7	Apply learned skills in experimenting, researching, and critically analysing relevant topics of their choice
PSO - 8	Obtain professional skills in translation



Thoothukudi- 628 002, Tamil Nadu.

Department of English - PG

Upon completion of the M.A. English Literature Programme, students will be able to

PSO - 1	Locate the historicity and textuality of World Anglophone Literature.
PSO - 2	Appraise the diversity of humanist discourses delineated in the texts.
PSO - 3	Relate the texts to convey and construct cultural values and ideas.
PSO - 4	Foster and articulate universalism with social empathy.
PSO - 5	Respond positively to the significant paradigm shift.
PSO - 6	Validate the texts with dominant critical theories, methodologies
PSO - 7	Contemporary practices in the field.
PSO - 8	Develop proficiency in critical thought and academic writing.
PSO - 9	Acquire professional skills related to translation and media studies.



Thoothukudi- 628 002, Tamil Nadu.

Department of History - UG

Upon completion of the B.A. History Programme, students will be able to

PSO - 1	Know the social condition of Tamilnadu & Land systems
PSO - 2	Know the Art and Education of Tamil Country
PSO - 3	History of India Up to 647 AD
PSO - 4	Know the importance of accommodation
PSO - 5	Understand the dangers of Environmental threats due to various kinds of pollution
PSO - 6	Bring about the direct and village participation of the villagers in the development
PSO - 7	Indian Administrative System, Indian Constitution II
PSO - 8	Understand the reaction of the Chinese towards the Europeans
PSO - 9	Learn the general course of human history in multiple areas of the world



Thoothukudi- 628 002, Tamil Nadu.

Department of Tamil - UG

PSO 1: அறிவாற்றல், மொழியாற்றல் மூலம் ஆசிரியராக, வழக்கறிஞராகப் பணியாற்றல்.

PSO 2: போட்டித் தேர்வுகள்வழி அரசுப்பணி / தேர்வுகளில் தேர்ச்சிப் பெறுதல்.

PSO 3: கலைத்துறையில் வெற்றிகரமாகப் பயணித்தல்.

PSO4: பகுப்பாய்வு செய்யும் திறன்மூலம் ஊடகவியலாளராக / ஆய்வாளராகப் பணியாற்றல்.

PSO 5: தனது ஆளுமைப் பண்புகள் மூலம் சுயதொழில் தொடங்குதல்.



Thoothukudi- 628 002, Tamil Nadu.

Department of Tamil - PG

PSO - 1	The students will be competent to know the different types of writings.
PSO - 2	Improve his or her writing and speaking skills.
PSO - 3	The ability to live a life that pleases both oneself and others.
PSO - 4	Inspire knowledge about grammar, linguistic history, and contemporary literature.
PSO - 5	Develop research related skills.



Thoothukudi- 628 002, Tamil Nadu.

Department of Commerce - UG

Upon completion of the B.Com. Programme, students will be able to

PSO - 1	Impart skills for recording various kinds of business transactions
PSO - 2	Enhance knowledge on recent economic trend
PSO - 3	Give real-life opportunities to manage business accounts
PSO - 4	Understand the basic marketing concepts
	Create skills to develop marketing strategies based on product, price,
PSO - 5	place and promotion objectives.
	Understand the accounting treatment to be followed at the time of
130-0	insolvency of an individual and while taking a lease of property.
PSO - 7	Know about the importance of human resource
PSO - 8	Enhance the knowledge of the fundamental and technical concepts of
	accounting.
PSO - 9	Acquire skills in reading, writing, comprehension and
	communication
PSO - 10	Know the procedures to be followed at the time of admission,
	retirement and death of a partner in a partnership business



Thoothukudi- 628 002, Tamil Nadu.

Department of Commerce - PG

Upon completion of the M.Com. Programme, students will be able to

PSO - 1	Learn Modern Methods of Office Automation through computers
PSO - 2	Know the Management accounting practices used by Management for effective
PSO - 3	Create the knowledge of legal perspective and its practices to improve the business.
PSO - 4	Understand the changing environment around the business
PSO - 5	Use quantitative models in decision-making



Thoothukudi- 628 002, Tamil Nadu.

Department of Chemistry – UG

Upon completion of the B.Sc. Chemistry Programme, students will be able to

PSO - 1	Have sound knowledge about the fundamentals and applications of chemical and scientific theories.
PSO - 2	Acquire a skill for safer handling of chemicals, apparatus, and instruments.
PSO - 3	Apply appropriate techniques for the qualitative and quantitative analysis of chemicals in laboratories and industries.
PSO - 4	Develop analytical skills and problem-solving skills requiring application of chemical principles.
PSO - 5	Acquire the ability to synthesize, separate, and characterize compounds using laboratory and instrumentation techniques.
PSO - 6	To provide professional service to industry, research organizations, and institutes.



Thoothukudi- 628 002, Tamil Nadu.

Department of Chemistry – PG

Upon completion of the M.Sc. Chemistry Programme, students will be able to:

	Apply advanced concepts of organic, analytical, physical and
PSO - 1	inorganic chemistry to solve complex problems to improve human
	life.
PSO - 2	Possess skill in spectral, analytical, qualitative and quantitative
130-2	techniques which will be useful in industry.
	Gain knowledge in recent and advanced developments in the area of
	Green Chemistry, Chemistry of Industrial products and formulation,
	Forensic Chemistry, Industrial Processes, Catalysis, Nanoscience and
150-5	Nanotechnology, Medicinal Chemistry, Natural Products Chemistry,
	Bioinorganic Chemistry, Computational Chemistry, Contrasting
	agents in medical Diagnosis, Sensors etc.
PSO - 1	Design a synthetic route for new compounds and transform
PSO - 4	innovative ideas into reality.
	Be competent in problem-solving, critical thinking and analytical
130-5	reasoning as applied to scientific problems.
	Acquire an understanding of Plagiarism and Intellectual Property
r50-0	Rights.
PSO - 7	Use Computational software in chemistry efficiently.
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Thoothukudi- 628 002, Tamil Nadu.

Department of Computer Science- UG

Upon Completion of B.Sc. Computer Science, the student will be able to

PSO - 1	Define Fundamental principles and methods of Computer Science to a wide range of applications.
PSO - 2	Demonstrate and document solutions to significant computational problems
PSO - 3	Apply design, programming skills and develop principles in the construction of software systems
PSO - 4	Decide for continued professional Development.
PSO - 5	Design new technologies in web development.



Thoothukudi- 628 002, Tamil Nadu.

Department of Computer Science- PG

On Successful completion of the M.Sc. Computer Science programme, students will be able to:

PSO - 1	Analyze, design and develop solutions to significant computational problems.
PSO - 2	Utilize tools and techniques necessary for computing practices.
PSO - 3	Participate in competitive exams such as SET, NET etc. effectively
PSO - 4	Design, develop and evaluate novel projects to meet the desired demands of industry and society.
PSO - 5	Demonstrate best practices and standards to develop user interactive applications.
PSO - 6	Work with computing technologies and pursue career in the areas related to Computer Science.
PSO - 7	Function effectively as an individual or in teams involving multidisciplinary environments



Thoothukudi- 628 002, Tamil Nadu.

Department of Mathematics - UG

Upon completion of the B.Sc. Programme in Mathematics, students will be able to

PSO - 1	A Solid Foundation in Knowledge: B.Sc. degree is the culmination of
	depth knowledge of my core branches of mathematics such as Calculus,
	Classical Algebra, Analytical Geometry, Differential Equations, Sequence
	and Series, Abstract Algebra, Real and Complex Analysis, Number Theory,
	Mechanics, Operation Research, Statistics, Graph Theory, Discrete
	Mathematics, Trigonometry, Transforms and their application and
	C++/Python. Thus, this programme helps students in creating a solid
	foundation for further higher studies and research in mathematics.
	A Competency in Skills: The skills and knowledge gained have intrinsic
	logic which leads to proficiency in analytical reasoning critical
	understanding, analysis and synthetic in order to solve theoretical and
150-2	practical problems. This can orient students towards applications of
	mathematics in other disciplines and moreover, it can also be applied in
	modelling and solving the real-life problems.
	A Problem-Solving Techniques: Students undergoing this programme
	learn to logically understand the question assertions to classify the patterns
PSO - 3	and to evaluate the difference between the necessities and unnecessities of
	the problems which helps to analyze the problem clearly and to take correct
	decision for solving the problems.
	Interdisciplinary and Research Skills: Students completing this
	programme will be able to create and present mathematical concepts clearly
PSO - 4	and precisely, to describe mathematical ideas from multiple perspectives
	and to explain fundamental concepts of mathematics to non-mathematics
	people in a better manner.
	A Proficiency in Employments: The programme will help students build
PSO - 5	up with employability for government jobs, jobs in banking, insurance and
	investments sectors, data analysis jobs and jobs in various other public and
	private enterprises.



Thoothukudi- 628 002, Tamil Nadu.

Department of Mathematics - PG

Upon completion of the M.Sc. Programme in Mathematics, students will be able to:

PSO - 1	Have a deep understanding and knowledge in the core areas of
	Mathematics.
	Demonstrate understanding and application of concepts/ theories/
PSO - 2	principles/methods/ techniques in different areas of pure and applied
	Mathematics.
PSO - 3	Have the capability to read and understand mathematical texts.
	Demonstrate and communicatemathematical knowledge
130-4	effectively and unambiguously through oral and/or written expressions.
PSO - 5	Attain skills in computing /programming /using software tools
r50-5	/formulating models.
	Attain abilities of critical thinking, logical reasoning, investigating
150-0	problems, analysis, and problem-solving.
	Application of mathematical methods/ techniques, disciplinary
PSO - 7	knowledge so as to develop skills to solve mathematical problems in other
	disciplines and/ or in the realworld.
PSO 8	Development of intellectual capabilities to get into further research in the
r50-8	discipline.
	Have a strong foundation in basic and applied aspects of Mathematics to
PSO - 9	venture into jobs in scientific and various industrial sectors and/or
	teaching careers in Mathematics.
DEO 10	Development of strong oral and written communication skills promoting
r 50- 10	the ability topresent ideas and also promote teamwork spirit.



Thoothukudi- 628 002, Tamil Nadu.

Department of Physics

The student graduating with the degree B.Sc. Physics should be able to:

PSO - 1	To create effective entrepreneurs by enhancing their critical thinking, problem-solving, decision-making, and leadership skill
PSO - 2	To produce employable, ethical, and innovative professionals to sustain in the dynamic business world
PSO - 3	To contribute to the development of the society by collaborating with stakeholders for mutual benefit
PSO - 4	Students utilize their laboratory skills to take measurements in the Physics laboratory, analyse the measurements, and draw valid conclusions



Thoothukudi- 628 002, Tamil Nadu.

Department of Zoology

Upon completion of the B.Sc. Zoology Programme, students will be able to

PSO - 1	Understand the structure, functional organization, adaptations, and
	the economic importance of lower and higher invertebrates.
	Understand the sequential change from the cellular grade of
PSO - 2	organization to the organ grade of organization in the development of
	Multicultural organisms
PSO - 3	Enable the students to understand the social realities
PSO - 4	Elucidate the structure and functions of the cell organelles
PSO - 5	Understand the structure and anatomy of earthworms
PSO - 6	Know the vermin culture and vermin composing methods for effective
130-0	waste management
PSO - 7	Understand the Biotechnological equipment, its working mechanism,
150 /	and applications.
PSO - 8	Explore the scope for students in various biotechnological institutes
PSO - 9	Learn the utility and applications of Biotechnological instruments so
	as to study its role for human welfare.
PSO - 10	Know the basic bio-statistical methods for students to do the project



Thoothukudi- 628 002, Tamil Nadu.

COURSE OUTCOMES

DEPARTMENT OF HISTORY

I B.A. HISTORY HISTORY OF INDIA UPTO 647 AD

I Semester Sub. Code: CMHI11

CO – 1	Explain the basic concepts and distinguish the different sources for writing the history upto A.D. 647
CO - 2	Illustrate the social life during the Vedic Period
CO - 3	Recall the teachings and philosophy of Lord Buddha and Mahavira and an account on Mauryas
CO – 4	Explain the sources, illustrate the conquest and achievement of various rulers under the Gupta dynasty
CO – 5	Identify the achievements of Harshavardhana

I B.A. HISTORY HISTORY OF TAMILNADU UPTO 1336 AD

I Semester Sub. Code: CMHI12

CO – 1	Recall the pre-historic period and explain the political history of Sangam age.
CO - 2	Demonstrate the role of Pallavas in the field of administration and upliftment of art and architecture
CO - 3	Interpret the political and cultural history of Tamils under the Cholas
CO – 4	Identify the significance of Marcopolo's accounts and outline the progress of Art &Architecture under the Pandiyas
CO – 5	Explain the impact of Muslim invasion in Tamil country



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I B.A. HISTORY I Semester PROFESSIONAL ENGLISH FOR ARTS & SOCIAL SCIENCES-I Sub. Code: CPSS11

CO – 1	To develop the language skills of students by offering adequate practice in
	professional contexts.
CO - 2	To enhance the lexical, grammatical and socio-linguistic and communicative
	competence of first year physical sciences students
CO - 3	To focus on developing students' knowledge of domain specific registers and
	the required language skills.
CO – 4	To develop strategic competence that will help in efficient communication
CO – 5	To sharpen students' critical thinking skills and make students culturally
	aware of the target situation.

I B.A. HISTORY THEORY OF POLITICAL SCIENCE

I Semester Sub. Code: CAHI11

CO – 1	To acquire sound knowledge about the political institutions.
CO - 2	To acquaint with the theories, approaches, concepts and principles of political theory.
CO - 3	Students able to understand the theories of origin of the state.
CO – 4	They will be familiar with state and central governments and their functions.
CO – 5	Knowledge about the structure and functions of the state government



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I B.A. HISTORY HISTORY OF INDIA (647AD – 1526 AD)

II Semester Sub. Code: CMHI21

CO – 1	Reveal Socio-Economic and cultural changes occurred in the Decanoic kingdom.
CO - 2	Know the salient features of the Western and Eastern influences
CO - 3	Highlight the influence of important Battles on Indian history.
CO – 4	The entire panorama of events right from the Arab conquest of Sindh and its
	eventful the formation of Mughal empire in India
CO – 5	Mughal empire shaping the cultural, political and economic landshape of the
	subcontinent.

I B.A. HISTORY HISTORY OF TAMILNADU 1336 – 1800 AD

II Semester Sub. Code: CMHI22

CO – 1	The study will create knowledge about features and cultural history of Tamilnadu
CO - 2	To make the students to understand about the Muslim invasion, Vijayanagar rule
	and advent of European.
CO - 3	It will create a knowledge how the Tamil people overcome their obstacles that
	impede their progress.
CO – 4	Students will be able to review socio-political structure of Tamilnadu.
CO – 5	Awareness about the Various issues present in Tamilnadu



Thoothukudi- 628 002, Tamil Nadu.

I B.A. HISTORY

PROFESSIONAL ENGLISH FOR ARTS & SOCIAL SCIENCE –II Su

II Semester

Sub. Code: CPSS21

CO – 1	Students would be able to form the strong professional vocabulary.
CO - 2	Its application at different platforms and through numerous modes as
	Comprehension, reading, writing and speaking will create deep knowledge in
	English.
CO - 3	Students will be able to write correct and error-free writing by being well-versed
	in rules of English Grammar.
CO – 4	It enables the students to improve the communication skill
CO – 5	Help students with research bent of mind develop their skills in writing reports
	and research proposals.

I B.A. HISTORY MODERN CONSTITUTIONS

II Semester Sub. Code: CAHI21

Develop understanding of evolution of modern legal system in India.
Examine the evolution of Indian administration.
Inculcate the spirit of the constitution among the students.
Introduce student to the nature, structure and functions of Modern Constitutions
Enable student to know that a Comparative understanding of different constitutional
models.



Thoothukudi- 628 002, Tamil Nadu.

I B.A. HISTORY HISTORY OF TAMIL NADU 1800 AD

II Semester Sub. Code: CMHI22

CO – 1	The study will create knowledge about features and cultural history of Tamilnadu
CO - 2	To make the students to understand about the Muslim invasion, Vijayanagar rule
	and advent of European.
CO - 3	It will create a knowledge how the Tamil people overcome their obstacles that
	impede their progress.
CO – 4	Students will be able to review socio-political structure of Tamilnadu.
CO – 5	Awareness about the Various issues present in Tamilnadu

II B.A. HISTORY Human Rights

III Semester

Sub. Code: CSHI31

CO – 1	To enable the students, acquire knowledge about theories and Characteristics of
	Human Rights.
CO - 2	To enable the students, understand the Indian Societal Problems and
	Obstacles in enforcing Human Rights.
CO - 3	To know more about the grievance redressed Mechanism in Guaranteeing human
	rights
CO – 4	To study more about Right to Information which protect human rights.
CO – 5	The Philosophical foundation, historical developments and contemporary issues
	surrounding the protection and promotion of human rights globally.


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II B.A. History		III Semester
Non-MajorElective1-FreedomMovement India Sub. Code: CNH		Sub. Code: CNHI31
CO – 1	To imbibe the spirit of Nationalism and Patriotism	to the students.
CO - 2	To make the students understand the various trends struggle.	and currents of freedom
CO - 3	To make the students to realize the sacrifices of our	leaders.
CO – 4	To study about the history of the Indian Independent	nce Movement
CO – 5	Student gain a nuanced understanding of the compl	exities of resistance, nationalism.

II B.A. HISTORY Allied III – Constitution of India.

III Semester Sub. Code: CAHI31

CO – 1	To study about the genesis of the Constitution of India
CO - 2	To understand the fundamental rights and duties guaranteed by the Indian
	Constitution.
CO - 3	To realize how a bill become law in India?
CO – 4	To have a wider idea on center state relations
CO – 5	To know about the protocols followed in parliament houses

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II B.A. History

Non-MajorElective1-FreedomMovement India

III Semester Sub. Code: CNHI31

CO – 1	To imbibe the spirit of Nationalism and Patriotism to the students.
CO - 2	To make the students understand the various trends and currents of
	freedom struggle.
CO - 3	To make the students to realize the sacrifices of our leaders.
CO – 4	To study about the history of the Indian Independence Movement
CO – 5	Student gain a nuanced understanding of the complexities of resistance, nationalism.

II B.A. History

IV Semester Sub. Code: CMHI41

Core Paper 7- History of India,(1772-1947 A.	D.)

CO – 1	To explain the students about the Imperialistic policies of the British Rule.
CO - 2	To make the students to understand the various social reforms initiated in India.
CO - 3	To understand the Indian up heaval against the Colonial Raj.
CO – 4	To estimate the role of Indian leader sinliberating mother India from alienrule.
CO – 5	Students analyze key events, figures, and idelogies shaping indias journey towards self governace fostering critical thinking and historical perspective.



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II B.A. History CorePaper8-Historyof Europe (476-1453A.D.)

IV Semester Sub. Code: CMHI42

CO – 1	To explain the students about the glorious legacy of Roman Empire.
CO - 2	To understand the significance of the basic tenets of various Religious.
CO - 3	To have a clear cutide a on the influence of Renaissance and Enlightenment.
CO – 4	To study more on the Society during the Middle Ages.
CO – 5	Understanding of the shaping of europe during this pivotal period.

II B.A History – IV Semester Allied IV–Indian Political Thought

Sub. Code: CAHI41

CO – 1	To make the students understand the value of Indian Political ideology.
CO - 2	To realize the importance of Indian Political thinkers over the period of time.
CO - 3	To have a clear cutide a on Swaraj and Saty a grahain India.
CO – 4	To study more on the Radical Liberalism in India.
CO – 5	Students will explore the rich tapestry of indian political thought, examing diverse perspectives from ancient texts to modern thinkers



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II B.A. History	IV Semester
Skill BasedCore2- Principles and Methods of Archaeology	Sub. Code: CSHI4

CO – 1	To study about the basic ideas of historical antiquity.
CO - 2	To understand the Colonial Contribution in bringing out the Indian Archaeology.
CO - 3	To have a wider knowledge on the role of archaeologists in bringing out the cultural significance.
CO – 4	To shed more light on various archeological sites including Kizhadi.
CO – 5	Students will learn the fundamental principles of archaeological research, including excavation techniques. artifact analysis and site interpretaion.

III B.A. History

Elements of Historiography

V Semester Sub. Code: AMHI51

CO – 1	To make the students to understand the fact that History is a utility subject.
CO - 2	To educate the students to have basic knowledge on Historical research
	methodology.
CO - 3	To know more about the Pioneers in Historiography.
CO – 4	To study the contributions of Indian Historiographers in writing objective history.
CO – 5	Students will analyze historical sources critically, interpret their significance and construct coherent historical narratives



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III B.A. History History of Europe (1453 -1789A.D.)

V Semester Sub. Code: AMHI52

CO – 1	To impart the students about the historical significance of the dawn of Modern
	Age.
CO - 2	To study about the Christian Reformation and Counter Reformation.
CO - 3	To under the power struggle that affected Europe during the period under review
CO – 4	To understand the emergence of the age of Benevolent Despotism in Europe
CO – 5	To understand the significance of the basic tenets of various religious.

III B.A. History Panchayat Raj in India

V Semester Sub. Code: AEHI52

CO – 1	To understand the evolution of Panchayat Raj as an institution in india.
CO - 2	To study the impact of Gandhian views on Panchayat Raj.
CO - 3	To make aware of the students about the history of Panchayat Rah over the year.
CO – 4	To understand gross root democracy and decision making from the bottom up.
<u>CO</u> – 5	To understanding the structure and functioning of Panchayat Raj institutions in India



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III B.A. His	story
History of (China (1839 -1966A.D.)

V Semester Sub. Code: AMHI53

CO – 1	To study in depth the significance the advent of Europe and in China.
CO - 2	To know more about the series of Chinese failures.
CO - 3	To understand the emergence of Chinese Nationalism.
CO – 4	To study the various strategies in the establishment of Peoples Republic of China in the land of Iron Curtain.
CO – 5	To enabling a nuanced understanding of chin as past its global significance today.

III B.A. History Indian Public Administration

V Semester Sub. Code: CMHI54

CO – 1	To understand the basic principles of public administration
CO - 2	To study more on functions, pavers of chief Executive
CO - 3	To have a wider knowledge on the principles of organization and its structure
CO – 4	To understand the role of planning commission and Nidhi Ayog in the development of Indian economy
CO – 5	To understanding of bureaucratic structures, processes and challenges with in India.



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III B.A. History	V Semester
MajorElective1 – Constitutional History of India. (1773-1947)	Sub. Code: AEHI51

CO – 1	To study about a focus on the various constitutional experiments in India.
CO - 2	To understand the significance of charter Acts and its implications.
CO - 3	To have a clear-cut ide a on the content of Indian Councils Acts.
CO – 4	To know more about the skelet on of the proposed Indian Constitution.
CO – 5	The evolution and impact of the countrys consitutional framework tracing its development

III B.A. History	V Semester
Major Elective II – Panchavat Raj in India, (1773-1947)	Sub. Code: AEHI52

CO – 1	To understand the evolution of Panchayat Raj as an institution in India.
CO - 2	To study the impact of Gandhian views on Panchayat Raj.
CO - 3	To make aware of the students about the history of Panchayat Raj over the years.
CO – 4	To understand gross root democracy and decision making from the bottom – up
CO – 5	To Knowledge of local governance in India, covering administrative.

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III B.A. History History of Europe (1789-1945A.D.)

VI Semester Sub. Code: AMHI61

CO – 1	To make the students learn major issues and current issues during the period under study.
CO - 2	To make the students understand the reaction to National ism and Liberalism.
CO - 3	To understand the impact of World wars on Global Society.
CO – 4	To estimate the role of UNO in maintaining World Peace.
CO – 5	To Understanding of the continent diverse culture's societies and pivotal events.

III B.A. History History of Science and Technology Since 17th Century

VI Semester Sub. Code: AMHI62

CO – 1	To understand more about the history of Science and Technology during the period understudy.
CO - 2	To realize the scientific inventions during the 18 th C in protecting human beings.
CO - 3	To study about the emergence of new scientific inventions.
CO – 4	To trace the contributions of Indian Scientists in preserving global peace and development.
CO – 5	Students will demonstrate a comprehensive understanding of fundamental scientific principles and their practical applications.



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III B.A. History History of India Since 1947

VI Semester Sub. Code: AMHI63

CO – 1	To understand the conditions of India on the eve of Independence.
CO - 2	To study the contributions made by the architects of India.
CO - 3	To know more about the foreign policy of India which is always working for global peace?
CO – 4	To understand the emergence of regional sub-national ismene India and its results.
CO – 5	To students with a comprehensive understanding of post-independence developments, including political ,social economic, and culture.

III B.A. History Women's Studies

VI Semester Sub. Code: AMHI64

CO – 1	To make the students understand the need for change among the women.
CO - 2	To make them understand the need for the empowerment of women and realization of that goal.
CO - 3	To understand the various reasons for the secondary status given to the Indian women.
CO – 4	To estimate the contributions made by pioneering Indian women leaders inup lifting the womenfolk.
CO – 5	To students to gain a deeper understanding of gender and dynamics.



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III B.A. History Group Project and Viva

VI Semester Sub. Code: CVBE21

CO – 1	To Study the unique characteristics of a society, culture a situation or an
	individual
CO - 2	To investigate the recurring nature of phenomena with a view to generalize and to
	formulate laws.
CO - 3	To contribute to the existing quantum of human knowledge, to find out the truth by
	applying the time tested scientific procedures.
CO – 4	To discuss some type of theories about effective leadership.
<u>CO</u> – 5	To develop, analyses and critically evaluate alternative option in order to justify and generate solutions in a real world project.

III B.A. History

Major Elective 2 – Epigraphy

VI Semester Sub. Code: AEHI6A

CO – 1	To understand the historicity of a country with the study of Epigraphy.
CO - 2	To know more about the evolution of various scripts.
CO - 3	To estimate the contribution made by both foreign and indigenous epigraphists in writing the History of India.
CO – 4	To understand the significance of inscriptions and Copperplates
CO – 5	The students with the ability to decipher and analyze ancient inscriptions.



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PG & RESEARCH DEPARTMENT OF ENGLISH

B.A. English

Title of the Course: Communicative English - I

Semester – I Subject Code:A2EN11

CO – 1	Improve their listening and writing skills.
CO - 2	Apply and incorporate basic grammar and mechanics in writing.
CO - 3	Paraphrase main ideas through reading passages.
CO – 4	Communicate in English with confidence.
CO – 5	Label and paraphrase main ideas through reading passages.

B.A. English

Title of the Course: Indian Writing in English – I

Semester – I/ Core – 1 Sub. Code: AMEN11

CO – 1	Understand the major movement sand authors in Indian Writing in English through the study of selected literary texts
CO - 2	Analysed eartistic and rhetorical devices used by the writers
CO - 3	Cultivate a literary sensibility for a proper critical appreciation of literature
<u>CO</u> – 4	Make them reflect critically on the human and social concern sand value sembedded in the texts
CO – 5	Enhance the overall literary and linguistic competence of students



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B.A. En	glish	Semester – I / Core – 2
Title of	the Course: British Fiction	Subject Code: AMEN12
CO – 1	Comprehend the ethical values of the society	
CO - 2	Compare and contrast the characters of the novels	
CO - 3	Analyse the plot construction and techniques employed i	n the novels
CO – 4	Interpret the different meanings and messages in the nov	els
CO – 5	Assess the literary value of each novel	

B.A. English Professional English for Arts and Social Sciences – I

Semester – I/ Major Sub Code: APSS11

CO – 1	Refine written and verbal communication skills.
CO - 2	Speak confidently in any professional environment.
CO - 3	Face interviews with confidence.
CO – 4	Analyse and comprehend unfamiliar texts.
CO – 5	Develop strategic competence through efficient listening.

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B.A. English

Title of the Course: Social History of England

Semester – I/ Allied- I Subject Code: AAEN11

CO – 1	Understand the political, religious, economic and intellectual histories of various periods
	interfectual instories of various periods
CO - 2	Explore English life and society over six centuries
CO - 3	Examine the etiquette, morality and customs of English society
CO – 4	Contextualize the varying experiences of English society in relation to societal changes and evolution
CO – 5	Coexist in aculturally diverse inter dependent world

B.A. English

Title of the Course: Environmental Studies

Semester – I/ Common Subject Code: AEVS11

CO – 1	Understand key concept from economic, political, and social analyses as they pertain to the design and evaluation of environmental policies and institutions
CO - 2	Appreciate concepts and methods from ecological and physical sciences and their application in environmental problems solving
CO - 3	Reflect critically about their roles and identities as citizens, consumers and environmental factors in a complex, interconnected world.
CO – 4	Use natural resources more efficiently and know more sustainable ways of living
CO – 5	Participate in the improvement and protection of environment and create awareness about environmental issues to the public.



Thoothukudi- 628 002, Tamil Nadu.

B.A. English Title of the Course: Communicative English - II

Semester – II/ Part - II Subject Code: A2EN31

CO – 1	Comprehend passages
CO - 2	Demonstrate improved oral fluency.
CO - 3	Use vocabulary through the study of word parts.
CO – 4	Construct paragraphs and essays through prose writings.
CO – 5	Develop the skills of interpretation, critical thinking, and clear writing.

B.A. English

Title of the Course: Indian Writing in English – II

Semester – II/ Core -3 Subject Code: AMEN21

CO – 1	Remember the origin and History of the Indian Writing in English and appreciate
	the merary devices used in the texts
CO - 2	Examine abroad cross section of regions and cultures in India
CO - 3	Understand the broad view of culture as seen from outside the culture
CO – 4	Make familiar with the contributions made by modern Indian writers writing in English
CO – 5	Critically engage with Indian literary texts written in English in terms of colonialism, post colonialism, regionalism and nationalism



Thoothukudi- 628 002, Tamil Nadu.

B.A. English

Title of the Course: American Literature

Semester – II/ Core -4 Subject Code: AMEN22

CO – 1	Identify the key ideas, events and characteristics of different periods and regions
CO - 2	Understand values and themes that impact culture and society
CO - 3	Analyze and juxtapose the unique literary styles and structures of American authors
CO – 4	Improve reading skills leading to literary analyses
CO – 5	Write poems and short stories and also enact scenes from the plays prescribed

B.A. English Professional English for arts and Social Sciences – II

Semester – II

Sub Code: APSS21

CO – 1	Understand the theoretical and practical components of professional English and soft skills.
CO - 2	Use power point presentations.
CO - 3	Make oral presentations.
CO – 4	Write minutes and reports.
CO – 5	Write essays creatively and innovatively.



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B.A. English

Title of the Course: Literary Forms

Semester – II/ Allied - 2 Subject Code: AMEN21

CO – 1	Understand the significance of literary forms
CO - 2	Analyze a variety of texts
CO - 3	Appreciate literary forms and structure in shaping the meaning of a text
CO – 4	Enhance intellectual inquiry and creative expression
CO – 5	Obtain coherent and systematic knowledge of various literary forms

B.A. English

Title of the Course: Value Based Education

Semester – II/ Common Subject Code: AVBE21

CO – 1	Understand the importance of value-based living and to gain deeper understanding about the purpose of their life
CO - 2	Understand and start applying the essential steps to become good leaders.
CO - 3	Contribute in building a healthy nation and value-based professionals.
CO – 4	Respect for dignity of individual and diversity in society.
CO – 5	Help students to promote qualities such as honesty, integrity and empathy.



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B.A. English

Title of the Course: History of English Literature – I

Semester – III/ Core 5 Subject Code: AMEN31

CO – 1	Comprehend the growth and development of English literature and language
CO - 2	Develop an extensive in sight in to the various literary movements and also the prominent writers and their works
CO - 3	Understand and evaluate the social, cultural and historical influence on the literary works of different periods
CO – 4	Explore the evolution of various literary genres
CO – 5	Read through and interpret key texts

B.A. English

Semester – III/ Core 6 Subject Code: AMEN32

Title of the Course: British Poetry

CO – 1	Define the various forms, types and schools of poetry
CO - 2	Describe the development of various literary movements and their mission
CO - 3	Apply the traits of the movement to the poems of the period
CO – 4	Classify British poetry as reflection of the period and identify the socio-cultural factors
CO – 5	Review the literary style of British poetry and explore the diverse themes of the poems



Thoothukudi- 628 002, Tamil Nadu.

B.A. English

Title of the Course: English Grammar and Usage

Semester – III Subject Code: AAEN31

CO – 1	Recall the fundamentals of English Grammar
CO - 2	Understand the formal and in formal usages to obtain proficiency
CO - 3	Apply the patterns learnt by students
CO – 4	Analyze sentence structures, Synthes is and usages
CO – 5	Evaluate the patterns of expressions, basic structures, sentence patterns, etc.

B.A. English	Semester – III
Title of the Course: Phonetics and Spoken English	Subject Code: ASEN31

CO – 1	Discuss in detail the production and articulation of Speech Sounds
CO - 2	Understand correct Stress and Intonation pattern
CO - 3	Construct the vowel and consonant sounds using Phonetic symbols
CO – 4	Enumerate transcription to improve Speech Sounds
CO – 5	Articulate standard pronunciation of English words



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B.A. English Title of the Course: English and Employability

Semester – III Subject Code: ANEN31

CO – 1	To understand the use of English in different careers
CO - 2	To develop competence in using English for the career of their choice
CO - 3	To exercise verbal and non verbal communication effectively for their career
CO – 4	To use English effectively in the career of their choice
CO – 5	To enhance skills required for their placement

B.A. English/ Semester – IV/ Common

Title of the Course: Yoga

Subject Code: AYOG31

CO – 1	To learn and practice various meditation, yoga methods to transform the ordinary life in to a healthy, harmonious life leading to holistic well being
CO - 2	To create an eco-friendly, loving and compassionate world.
CO - 3	Acquire knowledge and skill in yoga for youth empowerment.
CO – 4	Increase their power of concentration
CO – 5	Learn the causes and ways to overcome fear and sadness.



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B.A. English/ Semester – IV/ Core 7 Title of the Course: History of English Literature – II

CO – 1	Familiarize the important literary figures and literary works of the period
CO - 2	Examine the issues discussed in the text in the socio-historic and cultural context
CO - 3	Understand the chronologically arranged collection of biographical sketches
CO – 4	Analyze the dominant literary and artistic movements of the early and the modern period
CO – 5	Exhibit the interplay of the personal and the impersonal in the making of history

B.A. English/ Semester – IV/ Core 8

Title of the Course: British Drama

Subject Code: AMEN42

Subject Code: AMEN41

CO – 1	Name the various type sand sub-genres of drama
CO - 2	Explain different dramatic forms and the techniques adopted by each writer of each
	age
CO - 3	Trace out the evolution of British Drama and its impact on audience
CO – 4	Learn to comment critically upon the characters and their representative nature
CO – 5	Assess the literary style and find out the uniqueness of British Drama



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B.A. English/ Semester – IV/ Allied 4

Title of the Course: Chicano and Caribbean Literature

Subject Code: AAEN41

CO – 1	Demonstrate familiarity with important authors, works, genres, and themes of Chicano and Carribean Literature
CO - 2	Analyze and interpret themes found in the literature and intellectual movements associated with Chicano and Carribean Literature
CO - 3	Relate the literary works to their historical, philosophical, social, political, regional, and/or aesthetic contexts
CO – 4	Critically examine and interpret cultural expressions of Chicano and Carribean literature
CO – 5	Evaluate the historical experiences of the Chicanao and Carribean people within the legal, political cultural, and social structures.

B.A. English/ Semester – IV/ Skill Based Core - 2

Title of the Course: Eco English

Subject Code: ASEN41

CO – 1	Understand the significance and implications of environmental writing with varied perspectives of both literary and scientific criticism
CO - 2	Interpret and relate literary texts by using essential terms from Environment studies
CO - 3	Value the significance of the latest schools of criticism through the new approach used practically.
CO – 4	Make close reading, critical thinking and analytical writing through which the students will be able to investigate the literary and cultural forms that shape the observation of the readers and the way in which they relate themselves with nature and environment
CO – 5	Develop awareness of how literature can articulate humanity's relationship with the environment



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B.A. English/ Semester – IV/ Non Major Elective - 2 Title of the Course: Business English

Subject Code: ANEN41

CO – 1	Develop basic skills to deal with people in business situations
CO - 2	Write and read basic business reports, faxes, and memos
CO - 3	Expand vocabulary related to general business situations
CO – 4	express themselves orally in a business setting with colleagues in meetings and informally
CO – 5	Enhance language flexibility.

B.A. English/ Semester – IV/ Common Title of the Course: Computer for Digital Era

Subject Code: ACDE41

CO – 1	Identify different types of computer systems.
CO - 2	Classify various types of software being used.
CO - 3	Analyze various social networking platforms and use them efficiently.
CO – 4	Analyze various social networking platforms and use them efficiently.
CO – 5	Distinguish various cyber-attacks and apply preventive measures.

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Thoothukudi- 628 002, Tamil Nadu.

B.A. English/ Semester – V/ Core 9 Title of the Course: Non – Fiction

Subject Code: AMEN51

CO – 1	Demonstrate a good reading knowledge of classic and contemporary non fiction.
CO - 2	Define how it differs from straight reporting and fiction.
CO - 3	Name the devices writers use in nonfiction.
CO – 4	Recognize literary genres of nonfiction
CO – 5	Write an essay using the techniques of nonfiction

B.A. English/ Semester – V/ Core 10 Title of the Course: Literary Critics and Approaches

Subject Code: AMEN52

CO – 1	Understand the origin and development of the art of literary interpretation
CO - 2	Comprehend the qualities of canonical literary texts
CO - 3	Gain an understanding about various modes and methods of literary interpretation
CO – 4	Trace the inter disciplinary nature of literary critic is mevolved in the twentieth century
CO – 5	Improve their ability to read the literary texts critically and analyze them and write well-structured analysis of literary texts



Thoothukudi- 628 002, Tamil Nadu.

B.A. English/ Semester – V/ Core 11 Title of the Course: World Literature in Translation

Subject Code: AMEN53

CO – 1	Trace the interdisciplinary nature of literary texts evolved in the twentieth century
CO - 2	Gain an understanding about various modes and methods of literary interpretation
CO - 3	Understand the origin and development of the art of literary interpretation
CO – 4	Comprehend the qualities of canonical literary texts
CO – 5	Improve their ability to read the literary texts critically and analyse them and write well-structured analysis of literary texts.

B.A. English/ Semester – V/ Core 12 Title of the Course: Canadian Literature

Subject Code: AMEN54

CO – 1	Improve their ability to read the literary texts critically and analyse them and write well – structured analysis of literary texts
CO - 2	Trace the inter disciplinary nature of literary texts evolved in the twentieth century
CO - 3	Gain an understanding about various modes and methods of literary interpretation
CO – 4	Comprehend the qualities of canonical literary texts
CO – 5	Understand the origin and development of the art of literary interpretation



Thoothukudi- 628 002, Tamil Nadu.

B.A. English/ Semester – V/ Major Elective - 1 Title of the Course: Women's Writing

Subject Code: AMEEN51

CO – 1	Understand the role of women in Literature
CO - 2	Recognize the biased social structure of women in the modern er
CO - 3	Interpret women's writings across cultures.
CO – 4	Identify the marginalization of women in society.
CO – 5	Analyse gender perspectives in writings

B.A. English/ Semester – V/ Major Elective 2 Title of the Course: Creative Writing in English

Subject Code: AAEN53

CO – 1	Read texts closely for nuances of language, content, and form
CO - 2	Write effectively and produce clear and coherent prose demonstrating effective use of grammar and style
CO - 3	Practice writing and revision as a craft with attention to voice, style, form, language, technique, and other elements of literary composition
CO – 4	Collaborate and communicate effectively through writing, sharing, and revising creative work
CO – 5	Demonstrate knowledge of editing and revision techniques, the world of publishing, and other career-related aspects of writing.



Thoothukudi- 628 002, Tamil Nadu.

B.A. English/ Semester – V/ Skill Based Common

Title of the Course: Personality Development

Subject Code: ACSB51

CO – 1	Individual or in-group class presentations pertaining to the application of concerned theories or issues in human development.
CO - 2	To design and complete a research project that can take the form of a developing interview, an observation or assessment through service learning
CO - 3	To research and write about relevant topics
CO – 4	Understand different personality traits.
CO – 5	Resourceful and productive in any part of the organisations.

B.A. English/ Semester – VI/ Core 13 Title of the Course: Shakespeare

Subject Code: AMEN61

CO – 1	Understand the plays studied in different critical contexts including historical theoretical and theatrical
CO - 2	Apply various emerging literary theories to the study of Shakespeare
CO - 3	Appraise the universal values embedded in the plays of Shakespeare
<u>CO</u> – 4	Recall the nuclei of each play and analyze them with the historical, philosophical and literary factors
<u>CO</u> – 5	Challenge the existing ideas with their alms of the contemporary literary scenario



Thoothukudi- 628 002, Tamil Nadu.

B.A. English/ Semester – VI/ Core 14 Title of the Course: Australasian Literature

Subject Code: AMEN62

CO – 1	Understand the origin and development of the art of literary interpretation
CO - 2	Improve their ability to read the literary texts critically and analyse them and write well- structured analysis of literary texts
CO - 3	Gain an understanding about various modes and methods of literary interpretation
CO – 4	Comprehend the qualities of canonical literary texts
CO – 5	Trace the interdisciplinary nature of literary texts evolved in the twentieth century

B.A. English/ Semester – VI/ Core 15

Title of the Course: Short Stories and One -act Plays

Subject Code: AMEN63

CO – 1	Read, understand and appreciate a range of literary texts
CO - 2	Think rigorously about selected contemporary texts and the contexts of their production
CO - 3	Critically evaluate their own and others' written materials
CO – 4	Identify the main ideas, details and speakers' attitudes and emotions by listening to different types of spoken texts.
CO – 5	Enact the scenes without hesitation



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B.A. English/ Semester – VI/ Core 16

Title of the Course: Regional Literature in Translation

Subject Code: AMEN64

CO – 1	Understand how English gets Indian is ed in translation.
CO - 2	Analyse with the major ancient medieval and modern literary movements in India and their influence on literature.
CO - 3	Understand different literary techniques employed by various Indian regional language writers.
CO – 4	Compare the features and peculiarities of Indian societies, culture and language.
CO – 5	Engage in the vast possibilities of translating literary texts from their own languages into English.

B.A. English/ Semester – VI/ Major Elective Title of the Course: Comparative Literature

Subject Code: AEEN63

CO – 1	To analyze and interpret literary texts through close, comparative reading
CO - 2	Understand possibilities of cross-cultural literary influence and interaction, with attention to geographical, historical, and linguistic differences and connections.
CO - 3	Compare within their cultural and historical contexts, including literary tradition and literary history
CO – 4	Apply comparative methodologies and literary theory to evaluate literary texts and other cultural products.
CO – 5	Interpret and criticize literary texts within social, cultural, and historical contexts.



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M.A. English/ Semester – I/ Core Title of the Course: British Poetry

Subject Code: ZEHM11

CO – 1	recognize the various characteristics and sub-genres of poetry.
CO - 2	outline the development of numerous literary movements.
CO - 3	classify the poets as representatives of their periods.
CO – 4	rationalise British Poetry as an aesthetic record of the societies concerned.
CO – 5	analyse British Poetry with a focus on content and form.

M.A. English/ Semester – I/ Core Title of the Course: British Drama

CO – 1	recall the seminal works of various dramatists throughout the ages
CO - 2	trace the influences and social culture of the English societies through their drama of various periods
CO - 3	apply and enact the drama scenes in classroom
CO – 4	analyse the various dramatic techniques used in the plays
CO – 5	evaluate the literary elements such as setting, characterization, plot, theme, symbol etc.



Thoothukudi- 628 002, Tamil Nadu.

M.A. English/ Semester – I/ Core

Title of the Course:Indian English Literature I

Subject Code: ZEHM13

CO – 1	appreciate the diverse aspects of Indian English Literature of the pre-
	independence era.
CO - 2	identify the unique features of Indian Writings in English.
CO - 3	develop a perceptivity of the major historical movements and their impact on
	literature.
CO – 4	explore the colonial context in which Indian English developed as a language and literature.
CO – 5	assess the contributions of significant writers of the pre- independent era.

M.A. English/ Semester – I/ Core Title of the Course: American Literature I

Subject Code: ZEHM14

CO – 1	gain knowledge and understanding of a range of American Writings in their cultural contexts.
CO - 2	develop close reading skills as a means of literary analysis.
CO - 3	develop close reading skills as a means of literary analysis.
CO – 4	describe the significant historical and cultural developments of colonial America.
CO – 5	assess the major conventions and tropes of transcendental literature.



Thoothukudi- 628 002, Tamil Nadu.

M.A. English/ Semester – I/ Core Title of the Course: African Literature

Subject Code: ZEHE12

CO – 1	understand the various genres and culture of Africa.
CO - 2	familiarise themselves with the basic concepts and assumptions conveyed in the
	texts.
CO - 3	develop a realization that literature fosters humanistic awareness and attitudes.
CO – 4	analyse and comprehend Africa's reality through its narratives, protests against colonization, struggle for independence, African pride and hope for the future
CO – 5	assess Africa through specific forms of literary expression from the continent and
	the diaspora.

M.A. English/ Semester – I/ Elective Title of the Course: Literature and Pandemics

CO – 1	identify and demonstrate the knowledge about Contagions.
CO - 2	classify the varied socio-cultural conditions related to pandemics
CO - 3	elucidate the significant impact of the pandemics on society.
CO – 4	examine the major biological crises like the COVID- 19 pandemic.
CO – 5	assess pandemic as a unique narrative device and its role in stimulating a new
	reading.



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M.A. English/ Semester – II/ Core Title of the Course: British Non-Fiction

Subject Code: ZEHM21

CO – 1	recall the pragmatic works of British Literature.
CO - 2	learn and appreciate the cultural realities of the various periods.
CO - 3	develop critical insights to analyse various aspects of non-fiction.
CO – 4	relate the English literary texts to the historical, the social and the political contexts.
CO – 5	perceive the changing role of English in the new world order.

M.A. English/ Semester – II/ Core Title of the Course: Indian English Literature II

CO – 1	comprehend the contribution of significant writers of the post-independent era.
CO - 2	identify the unique features of Indian Writings in English.
CO - 3	examine the socio-political and cultural milieu of Indian English Literature after
	independence.
CO – 4	distinguish the use of myths in Indian Writing in English and its contemporary
	relevance.
CO – 5	analyse themes dealt with by modern writers in the post- colonial context.



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M.A. English/ Semester – II/ Core Title of the Course: American Literature II

Subject Code: ZEHM23

CO – 1	identify the roles played by gender, race, age, class, ethnicity, wealth, poverty, and
	geography in creating Contemporary American Literature.
CO - 2	comprehend the relationship between Literature and American history and the philosophical and the religious movements.
CO - 3	appraise the literary texts to examine the cultural and rhetorical contexts in which
	they were written.
CO – 4	analyse the strength and limitation of various literary forms practised in America.
CO – 5	evaluate the relationship between the African American culture and the American
	culture as a whole.

M.A. English/ Semester – II/ Core Title of the Course: Canadian Literature

CO – 1	define the richness of Canadian Literature through the various genres.
CO - 2	interpret the cultural and the literary aspects of Canadian Literature.
CO - 3	gauge the concerns at stake in conceiving the arena of Canadian Literature and its
	trajectories over time
	trajectories over time.
<u> </u>	
CO-4	generate thoughtful and critical analyses of the assigned texts.
CO 5	formulate metalized and locial answere that hold on tentral and
CO - 5	formulate sustained and logical arguments that build on textual evidence and
	manifest themselves in various genres.



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M.A. English/ Semester – II/ Core Title of the Course: Shakespeare

Subject Code: ZEHM25

CO – 1	recognise the elements of dramatic devices and techniques of Elizabethan Drama.				
CO - 2	identify Shakespeare's unique dramatic styles and understand the contexts of				
	setting, plot, characterization, and thematic Contents.				
CO - 3	infer the different features of Shakespeareantragedies, comedies,				
	and historical plays.				
CO – 4	analyse Shakespearean theatre and language.				
CO – 5	evaluate the Elizabethan views on cosmic universe and liberal humanism				

M.A. English/ Semester – II/ Core Title of the Course: Literary Theory I

CO – 1	locate the history of literary criticism and evolution of theory.
CO - 2	interpret the context of the significant ideological shift of western thoughts.
CO - 3	inculcate the habit of close and intensive reading.
CO – 4	analyse the central discourses of Enlightenment.
CO – 5	initiate interpretations of literature empirically.



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M.A. English/ Semester – III/ Core Title of the Course: British Fiction

Subject Code: ZEHM31

CO – 1	appreciate	the	contextualization	and the	historical consciousness of the
	texts.				
CO - 2	distinguish t	he diffe	erent socio-cultural	nilieu and th	e narrative techniques.
CO - 3	familiarise	the av	ant-garde writings	by the early	novelists.
CO – 4	analyse the	e conc	epts of modern	and postmo	dern literature.
CO – 5	perceive the	distinc	t literary characteris	tics of the m	odern narratives.

M.A. English/ Semester – III/ Core Title of the Course: Australian Literature

CO - 1	trace the key issues in Australian literature				
	trace the key issues in Australian herature.				
CO - 2	understand Australia's varied socio-cultural conditions.				
CO - 3	appreciate the literary aspects of Australian literature.				
CO - 4	explore the theoretical positions and analyse complex problems and issues				
00 4	explore the theoretical positions and analyse complex problems and issues.				
CO = 5	assess Australia's major literary works and develop literary arguments in a variety				
CO-3	assess Australia's major incrary works and develop incrary arguments in a variety				
	of contexts.				
CO-4 CO-5	assess Australia's major literary works and develop literary arguments in a variety of contexts.				



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M.A. English/ Semester – III/ Core Title of the Course: Research Methodology

Subject Code: ZEHM33

CO – 1	spell the definition and the process of research.
CO - 2	identify a research problem and proceed with it.
CO - 3	model the literary review based on the critical precepts.
CO – 4	trace the consciousness of ethical issues in educational research.
CO – 5	compile a research paper/thesis based on the mechanics of writing

M.A. English/ Semester – III/ Core Title of the Course: Aspect of English Language I

CO – 1	recall the origins and the development of language.
CO - 2	understand the basic principles of linguistic theory.
CO - 3	infer the knowledge of fundamental language structures and functions.
CO – 4	designate the place and the manner of articulation of phonemes in the English
	language and categorise speech sounds into various types.
CO – 5	appraise the various linguistic phenomena that have developed and changed in
	Modern English.


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M.A. English/ Semester – III/ Core Title of the Course: Literary Theory II

Subject Code: ZEHM35

CO – 1	relate the text with a specific epistemological and contextual mode of learning.				
CO - 2	identify the contemporary and the historical schools of the literary world.				
CO - 3	predict the ways in which literary theory applies to their own lives and cultures.				
CO – 4	deconstruct various literary interpretations of the text and find the relationship				
	between the reader and the work.				
CO – 5	validate the significance of race, class, and gender from a theoretical perspective.				

M.A. English/ Semester – III/Elective Title of the Course: Green Literature

Subject Code: ZEHE31

CO – 1	tabulate the indomitable part of nature in life.				
CO - 2	exemplify the most relevant critical theories through literary texts.				
CO - 3	elucidate the role of literature in addressing contemporary issues such as				
	environmental concerns.				
CO – 4	examine the social issues from the eco-critical perspective.				
CO – 5	prioritise ethical, cross-cultural and historical context of the environmental issues.				



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M.A. English/ Semester – IV/ Core Title of the Course: Gender Studies

Subject Code: ZEHM41

CO – 1	To retrieve the ability to conduct an interdisciplinary analysis of gender studies.				
CO - 2	To restate the position of gender on the lives of the individuals.				
CO - 3	To outline a body of knowledge about the social construction of sex and gender.				
CO – 4	To analyse socio-historical and contemporary power dynamics underpinning group				
	relations, social institutions, and systems of representation.				
CO – 5	To perceive feminism in its diverse cultural contexts.				

M.A. English/ Semester – IV/ Core

Title of the Course: Asia-Pacific Literature

Subject Code: ZEHM42

CO – 1	To recognise distinguishing characteristics of the various Asia- Pacific literature					
	and relate the writings to their historical, cultural, and political contexts.					
CO - 2	To trace the various narrative techniques, folktales, stories, parables, proverbs, and					
	other old-world literary material incorporated into literature of the Asia-Pacific					
	region.					
CO - 3	To extend the knowledge to review the global concerns with regional sensitivity,					
	(re)imagining "modernity" through literary plots about the exchanges between					
	Asia and the Pacific Islands.					
CO – 4	To relate cultural and social values of various societies with linguistic differences					
	and analyse how culturally based assumptions influence perceptions and					
	behaviours in the writings.					
CO – 5	To validate the cultural discourse from the representative literary texts and make					
	critical use of concepts and analytic tools from literary studies to develop, review,					
	analyse and synthesise knowledge about Asia and the Pacific region.					



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M.A. English/ Semester – IV/ Core

Title of the Course: Aspect of English Language II

Subject Code: ZEHM43

CO – 1	To identify various grammatical processes.				
CO - 2	To understand the distinguishing features of written and spoken language in the				
	texts.				
CO - 3	To classify the grammatical structures and their role in linguistic analysis				
CO – 4	To distinguish the concepts of word meaning and sentence meaning; sense and				
	reference.				
CO – 5	To validate the knowledge and understanding of the English language and its use				
	in various contexts.				

M.A. English/ Semester – IV/ Elective

Title of the Course: Translation: Theory and Practice

Subject Code: ZEHE42

CO – 1	To recall the various theories of translation and their importance in the				
	contemporary world.				
CO - 2	To extend the skill to translate and engage in advanced study in the field of				
	translation.				
CO - 3	To apply various methods of interpretation related to Translation Studies.				
CO – 4	To assess the multi-cultural approaches and navigate the linguistic problems in				
	translation.				
CO – 5	To perceive the difficulties in translation at a practical level and evaluate				
	alternative strategies for dealing with them.				



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M.A. English/ Semester – IV/ Project Title of the Course: PROJECT

Subject Code: ZEHP41

CO – 1	To tabulate the sources and the documents effectively.
CO - 2	To relate several articles to form an original opinion on a topic.
CO - 3	To connect several articles and form thesis statements from their critical reading.
CO – 4	To plan and write a more advanced and argumentative paper.
CO – 5	To deduct Plagiarism and devise the ways to prevent it.

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PG & RESEARCH DEPARTMENT OF TAMIL

	LTPC					
முதற்பருவம் 4 0 0 4						
இலக்கணம் - நன்னூல் - எழுத்ததிகாரம்						
(பொதுப்பாயிரம், சிறப்புப்பாயிரம் நீங்கலாக)						
Course outcomes: At the end of the course, the Student will be able to						
CO1: எழுத்துக்களின் பிறப்பு அதன் நிலைகள் போலி முதலிய	பன பற்றி					
அறிதல்						
CO2: பதங்களின் வகைகள் மற்றும் வடமொழியாக்கம் குறித்த	ட தெரிந்து					
கொள்ளுதல்						
CO3: பொதுப்புணர்ச்சி உயிரீற்றுப் புணர்ச்சி மற்றும் ஈற்றுச் சி	றப்பு					
விதிகளை அறிதல்						
CO4: மெய்யீற்றுப்புணர்ச்சி யகர. ரகர ழகர ஈற்றுத் திரிபுகள்	சிறப்பு					
விதிகளை அறிதல்						
CO5: உருபுப் புணரியல் பொதுச் சாரியைகள் உருபுப் புணர்ச்	சி சிறப்பு					
விதிகளை அறிதல்						

முதற்பருவம் துணைமைப்பாடம் நாட்டுப்புறவியல் - I



Course outcomes: At the end of the course, the Student will be able to

- CO1: நாட்டுப்புறவியல் விளக்கம் கோட்பாடுகள் ஆகியவற்றை வகைப்பாடுகளுடன் அறிந்து கொள்வர்
- CO2: நாட்டுப்புறப் பாடல் மற்றும் அவற்றின் வகைப்பாடுகளை விளங்கிக் கொள்வர்.
- CO3: கதைப்பாடல்களின் தோற்றமும் வளர்ச்சியும் பற்றி அறிந்து கொள்வர்
- CO4: பழமொழிகள் விடுகதைகள் குறித்த விளக்கமும் வகைகளும் அறிந்து கொள்வர்
- CO5: புராணக் கதைகள் வகைகள் இவை பற்றிய ஆய்வுகள் தொடர்பாக அறிவர்



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	ஜளங்கலை - தயழ - பாடத்தாட்டம் பருவம் - இரண்டு
	4_0_0_4 இலக்கணம் - நன்னூல் - சொல்லதிகாரம்
(Course outcomes: At the end of the course, the Student will be able to
CO1:	சொல்லின் பொது இலக்கணம் மூவகை மொழிகள் மூவிடங்கள்
	பெயர்ச்சொல் இருதிணைப் பெயர்கள் ஆகுபெயர் பற்றி அறிந்து கொள்வர்.
CO2:	வேற்றுமைகள் அதற்குரிய உருபுகள் வினைமுற்றுகள் குறித்து
	தெரிந்து கொள்வர்
CO3:	வினையெச்சம் வினைகுறிப்பு தொடர்மொழிகள் அவற்றின்
	விளக்கங்களை அறிந்து கொள்வர்.
CO4:	வழு வழுவமைதி வகைகள் வழக்குகள் பொருள்கோள் வகைகள்
	குறித்து அறிந்து கொள்வர்
CO5:	இடைச்சொல்லின் பொதுஇலக்கணம் இடைச்சொற்கள் அதன்
	வகைகள் உரிச்சொல்லின் பொதுஇலக்கணம் உரிப்பொருள்
	உரிச்சொற்களின் வகைகள் பற்றி அறிந்து கொள்வர்.

முதலாமாண்டு இரண்டாம் பருவம்

L	Т	P	С
3	2	0	4

துணைமைப்பாடம்

நாட்டுப்புறவியல் - II

Course outcomes: At the end of the course, the Student will be able to

- CO1: நாட்டுப்புறக்லைகள் கைவினைக் கலைகள் வகைகள் கைவினைத் தயாரிப்புகள் பற்றி அறிந்து கொள்வர்
- CO2: நாட்டுப்புற நம்பிக்கைகளும் கனவுகளும் நம்பிக்கைகளின் வகைகள் மற்றும் ஆய்வுகள் பற்றி அறிந்து கொள்வர்
- CO3: நாட்டுப்புற தெய்வங்கள் வகைப்பாடுகள் மற்றும் திருவிழாக்கள் குறித்து அறிந்து கொள்வர்
- CO4: நாட்டுப்புற விளையாட்டுகள் மற்றும் வகைகளை அறிவர்

CO5: நாட்டுப்புற மருத்துவம், நம்பிக்கைகள் ,பழமொழிகள் ஆகியவற்றை அறிவர்



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மூன்றாம் பருவம்				
முதன்மைப் பாடம் 3 2 0 4				
இலக்கணம் – யாப்பிலக்கணம்				
Course outcomes: At the end of the course, the Student will be able to				
CO1: எழுத்துக்கள் அசை சீர் தளை ஆகிய இலக்கணங்களை அறிந்து கொள்வர்				
CO2: அடி தொடை மற்றும் தொடை விகற்பங்களை அறிந்து கொள்ளுதல்				
CO3: பாக்களுக்குரிய அடியும் ஒசையும் மற்றும் ஆசிரியப்பாவுக்குரிய வகைகளை அழிந்து கொள்ளுகல்				
CO4: கலிப்பா வஞ்சிப்பா மருட்பா ஆகியவற்றின் இலக்கணம் மற்றும் வகைகளை அழிகல்				
CO5: ஒழிபியல் செய்திகளை தொகுத்து அறிந்து கொள்ளுதல்				
மூனநாம பருவம முதன்மைப் பாடம் 				
சிந்நிலக்கியம் 4 0 0 4				
Course outcomes : At the end of the course, the Student will be able to				
CO1: அழகர் கிள்ளைவிடு தூது 160 கண்ணிகளைக் கற்று அறிவர்				
CO2: அந்புதத்திருவந்தாதி மீனாட்சி அம்மை பிள்ளைத்தமிழ் பாடல்களைப்				
படித்து அறிந்து கொள்வர்				
CO3: பரணி இலக்கியங்களில் கலிங்கத்துப்பரணியில் இந்திரசாலம் இராச				
பாரம்பரியம் ஆகிய பகுதிகளை அறிந்து கொள்வர்				
CO4 முக்கூடற்பள்ளு குற்றாலக் குறவஞ்சி ஆகியவற்றில் தம்				
ாடப்பகுதியில் உள்ள பாடங்களைத் தெரிந்து கொள்வர்				
CO5: திருக்கயிலாய ஞான உலா முத்தொள்ளாயிரம் ஆகியவந்றில்				
பாடப்பகுகியில் உள்ள பாடல்களைஅறிவர்				



Thoothukudi- 628 002, Tamil Nadu.



திறன்வளர் பாடம்

ஆக்கத்தமிழ்

L	т	Ρ	С
4	0	0	4

Course outcomes : At the end of the course, the Student will be able to

- CO1: மொழிநடை குறித்த பல்வேறு அறிஞர்களின் கருத்துகளை அறிந்து கொள்வர்
- CO2: வல்லினம் மிகுமிடம் மிகா இடங்கள் சந்தி விகுதிகள் பற்றி அறிந்து கொள்வர்
- CO3: வாக்கிய அமைப்புகளும் அமைப்பு முறைகளும் குறித்துத் தெரிந்து கொள்வர்
- CO4: மரபுத்தொடர்கள் பழமொழிகள் உவமைகள் நாடகம் எழுதும் பயிற்சி பெறுவர்
- CO5: நிறுத்தற்குறிகள் இடும்முறைகள் எவ்வாறு என்று கற்றுக்கொள்வர்



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	நாடகவியல்
Cour	se outcomes : At the end of the course, the Student will be able to
CO1:	தமிழ் நாடகத்தின் தோற்றம் மற்றும் தொல்காப்பியர் கூறும் விளக்கம்
	சங்க இலக்கியங்களில் நாடகம் பற்றிய குறிப்புகளை அறிந்து
	கொள்வர்.
CO2:	அடியார்க்கு நல்லாரின் சிலப்பதிகார உரை மூலம் அறியலாகும்
	செய்திகளை விளங்கிக் கொள்வர்.
CO3:	பல்லவர் காலம் தொடங்கி அரேபியர் காலம் வரை நாடகங்களின்
	வளர்ச்சியை அறிந்து கொள்வர்
CO4:	தெருக்கூத்து நாடகங்கள் தொடங்கி பள்ளு குறவஞ்சி நொண்டி
	போன்ற பல்வேறு நாடகங்களின் படிநிலைகளை அறிவர்
CO5:	தமிழ் நாடகங்களின் அமைப்புகள் வகைகள் நாடக ஆசிரியர்கள்
	பற்றிய விவரங்களை மாணவர்கள் அறிந்து கொள்வர்

பிந்துறை மாணவர்களுக்கு) துரைசாராப் பாடம்

L	т	Ρ	С
4	0	0	4

பேச்சுக் கலை

Course outcomes : At the end of the course, the Student will be able to

- CO1: பேச்சாளர் என்பவர் யார்? அவருடைய தகுதிகள் என்னென்ன? பேச்சாளரின் உள்ளமும் உரையும் மற்றும் பேச்சும் எழுத்தும் பற்றி அறிந்து கொள்வர்
- CO2: பேசும் முறை, பேச்சு வகைகள் மற்றும் மேடையில் பேசும்போது பின்பற்ற வேண்டிய நெறிமுறைகள் குறித்து அறிந்து கொள்வர்
- CO3: பேச்சாளரும் அவருக்கு ஏற்படும் பிரச்சனைகளும் மொழிக் கூறுகள் பற்றி அறிந்து கொள்வர்
- CO4: பேச்சு மேலாண்மை என்ற ரீதியில் அறிஞர் அண்ணா கலைஞர் கி.வா.ஐ போன்ற அறிஞர்களின் உரைகள் குறித்து அறிமுகம் ஆவர்
- CO5: நேரு, சுகிசிவம், வலம்புரிஜான் போன்றோரின் உரையாடல்கள் திறன் குறித்து அறிந்து கொள்வர்

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Course outcomes : At the end of the course, the Student will be able to CO1: எழுத்து மற்றும் சொல் வகைகளை அறிந்து கொள்வோம் CO2: அகப்பொருள், புறப்பொருள், யாப்பு உறுப்புகள் பற்றி அறிந்து
CO1: எழுத்து மற்றும் சொல் வகைகளை அறிந்து கொள்வோம் CO2: அகப்பொருள், புறப்பொருள், யாப்பு உறுப்புகள் பற்றி அறிந்து
CO2: அகப்பொருள், புறப்பொருள், யாப்பு உறுப்புகள் பற்றி அறிந்து
கொள்வர்
CO3: அணி வகைகளைத் தகுந்த உதாரணங்களுடன் அறிந்து கொள்வர்
CO4: இலக்கணக் குறிப்புகள் வாக்கிய வகைகள் நிறுத்தற்குறிகள் பற்றி
அறிந்து கொள்வர்
CO5: ஒலி உறுப்புகள் ஒலிப்பதற்குப் பயிற்சி கொடுத்தல் மற்றும்
வலைத்தளங்களில் தமிழ்மொழியின் பயன்பாட்டுத் திறனை அறிந்து கொள்வர்

	நான்காம் பருவம் முதன்மைப்பாடம் ட P _ C
	இலக்கணம் - அணி இலக்கணம்
Cours	se outcomes : At the end of the course, the Student will be able to
CO1:	பொருள் அணியியல் செய்யுள் வகை செய்யுள் நெறி பற்றி அறிந்து கொள்வர்
CO2:	தன்மையணி உருவக அணி தீவக அணி பின்வருநிலையணி ஆகியவை பற்றி அறிந்து கொள்வர்
CO3:	முன்னவிலக்கணி வேற்றுமைப் பொருள் வைப்பணி வேற்றுமை அணி மற்றும் அதன் வகைகளைப் புரிந்து கொள்வர்
CO4:	இலேச அணி நிரல்நிறை அணி சிலேடை அணி விளக்கமும் வகைகளும் அறிந்து கொள்வர்
CO5:	விசேட அணி விரோத அணி நிதர்சன அணி வாழ்த்து அணி முதலிய அணிகளும் அவற்றின் வகைகளும் பற்றிப் புரிந்து கொள்வர்



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	SEMESTER IV	/ MAJOR CORE	VIII		
	நான்க	காம் பருவம்			
	முதன்	மைப் பாடம்		LT	P C
	நீதி	இலக்கியம		3 2	0 4
Course outc	omes : At the end of th	e course, the Student	will be able	to	
CO1: திருக்கு	தறள் 10-19 அதிகாரா	ங்கள் குறித்து அ <u>ற</u>	ிந்து கொள்	ாவர்	
CO2: அறன்	வலியுறுத்தல், நாலடி	யார் .நான்மணிக்க	டிகை, <mark>தி</mark> ரிக	கடுகம்	
பாடல்	பொருள் அறிந்து கெ	காள்வர்.			
CO3: இனியன	வை நாற்பது இன்னா	நாற்பது சிறுபஞ்ச	மூலம் ஆக்	പപുന്നിം	ல்
பாடப்ப	குதியில் உள்ள நீதி	க் கருத்துக்களை	அறிந்து ெ	கா <mark>ள்</mark> வர்.	
CO4: முதுமெ	ாழிக்காஞ்சி அறிவு ப	பத்து பழமொழிநான	றாறு நன்றெ	ഞി	
பாடப்ப	குதியில் உள்ள பாட	ல்களைப் புரிந்து	கொள்வர்.		
CO5: நீதிநெ	றி விளக்கம் உலகநீ	தி நல்வழி பாடல்	ടണെ ഉണ	ார்ந்து	
· · · ·					

SEMESTER IV/ ALLIED PAPER - IV

நான்காம் பருவம் துணைமைப்பாடம்

L	т	Ρ	С
4	0	0	4

அறிவியல் தமிழ்

Course outcomes : At the end of the course, the Student will be able to

- CO1: அறிவியல் தமிழ் பொருள் விளக்கம் தமிழரின் மரபுசார் அறிவியல் தொழில்நுட்பம் பற்றி அறிந்து கொள்வர்
- CO2: அறிவியல் தமிழ்க் கல்வி ஆக்கம் குறித்து அறிந்து கொள்வர்
- CO3: அறிவியல் தமிழ்ப்பாடம் மொழி வரலாற்றில் அறிவியல் தமிழின் பங்கு குறித்துக் கற்றுக்கொள்வர்.
- CO 4: கலைச்சொல்லாக்கத்தில் சமுதாய உணர்வு குறித்துத் தெரிந்து கொள்வர்.
- CO5: தமிழில் கலைச்சொல்லாக்க ங்கள் பற்றி விரிவாக அறிந்து கொள்வர்.



Thoothukudi- 628 002, Tamil Nadu.



SEMESTER IV/ SKILL BASED CORE II (optional)

நான்காம் பருவம் திறன்வளர் பாடம் - 2

L	Т	Ρ	С
4	0	0	4

தமிழர் மெய்யியல்

Course outcomes : At the end of the course, the Student will be able to

- CO1: மெய்யியல் குறித்த விளக்கம் மற்றும் அதன் வரலாற்றை அறிந்து கொள்வர்
- CO2: மெய்யியல் வகைகளைப் பற்றிப் பகுத்து அறிவர்

- CO3: பொருளியல் விளக்கம் மறுபிறப்புக் கொள்கை, ஊழ்க்கோட்பாடுகள் ஆகியவற்றை அறிந்து கொள்வர்.
- CO4: அழகியல் விளக்கம் கற்பனையும் அதன் வகைகளும் பற்றி அறிவர்
- CO5: அறவியல் அறங்கள் விருந்தோம்பல் வடக்கிருத்தல் சமுதாய அறம் போன்ற பல்வேறு அறங்கள் பற்றி அறிந்து கொள்வர்.



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SEMESTER IV/ NON MAJOR ELECTIVE-II (optional) நான்காம் பருவம் துறைசாராப் பாடம் <u>L T P C</u> துறைசாராப் பாடம் <u>3 2 0 4</u> பிறதுறை மாணவர்களுக்கு
தகவல் தொடர்பியல்
Course outcomes : At the end of the course, the Student will be able to
CO1: தொடர்பியல் என்றால் என்ன?! அதன் வகைகளும் விளக்கங்களும் பற்றி அறிந்துகொள்வர்.
CO2: தமிழ் இதழ்களின் வளர்ச்சியும் ஆக்கப்பணிகளும் பற்றி அறிவர்
CO3: வானொலி தொலைக்காட்சி செயற்கைக்கோள் ஒலிஒளிபரப்புகள் குறித்து அறிந்து கொள்வர்
CO4: திரைப்பட வரலாறும் வளர்ச்சியும் குறித்து அறிந்து கொள்வர்
CO5: தகவல் தொடர்பியலில் அறிவியல் தொழில்நுட்பம் பற்றி அறிந்து கொள்வர்.

SEMESTER IV / NON MAJOR ELECTIVE - II (optional) நான்காம் பருவம்

துறைசாராப் பாடம்

பிறதுறை மாணவர்களுக்கு

L	Т	Ρ	С
4	0	0	4

நூலகவியல்

Course outcomes: At the end of the course, the Student will be able to

- CO1: நூல்கள் தோற்றமும் வளர்ச்சியும் குறித்து அறிந்து கொள்வர்
- CO2: நூலகம் அதன் நிர்வாகம் விற்பனைப் பிரிவு தொழில்நுட்ப பிரிவு இதழ்கள் பிரிவு குறித்த பதிவுகளை அறிந்து கொள்வர்
- CO3: குறியீடு வகைகள் நூலகப் பணிகளின் பல்வேறு பிரிவுகள் பற்றிய தகவல்கள் தெரிந்து கொள்வர்
- Co4: நோக்கீட்டுப் பணியும் வகைகளும் குறித்துப் புரிந்து கொள்வர்
- CO5: நூலக வரவு-செலவு மற்றும் நூலகச் செயல்பாட்டில் மொழிபெயர்ப்புப் பணி குறித்து அறிந்து கொள்வர்.



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ஐந்தாம் பருவம் - V Semester முதன்மைப் பாடம் - Core IX

L	Т	Ρ	С
3	2	0	4

இலக்கணம் - அகப்பொருள்

Course outcomes: At the end of the course, the Student will be able to

CO1: அகப்பொருள் கூற்று முறைகளும் விளக்கமும் மற்றும் ஐந்திணைக்குரிய முதல் கரு உரிப் பொருள் குறித்து அறிந்து கொள்வர்.

CO2: கற்பு வாழ்க்கை பிரிவின் வகைகளை புரிந்து கொள்வர்.

- CO3: களவு வாழ்க்கை இயற்கைப் புணர்ச்சி பகற்குறி இரவுக்குறி தொடங்கி பொருள்வயிற் பிரிவு வரை தெரிந்து கொள்வர்
- CO4: வரைவியல் குறித்த மரபுகளை உணர்ந்து கொள்வர்
- CO5: கற்பியல் வாழ்வில் பிரிவு வகைகள் தொடங்கி வந்துழி மகிழ்வு வரை அறிந்து கொள்வர்

ஐந்தாம் பருவம் - V Semester முதன்மைப் பாடம் - Core IX

L	Т	Ρ	С
4	0	0	4

சங்க இலக்கியம்

Course outcomes : At the end of the course, the Student will be able to

- CO1: பெரும்பாணாற்றுப்படை வாயிலாக சங்ககால மக்களின் வாழ்வியலை உணர்ந்து கொள்வர்
- CO2: நற்றிணைப் பாடலில் வழி இயற்கையோடு இயைந்த வாழ்க்கையை அறிந்து கொள்வர்.
- CO3: கலித்தொகை வாயிலாக சங்ககால மக்களின் இயற்கையின் முக்கியத்துவம் குறித்து கற்றுக் கொள்வர்
- CO4: பதிற்றுப்பத்து பாடல்கள் வழி மன்னர்-- புலவர் நட்பின் உயர்வைத் தெரிந்து கொள்வர்.
- CO5: பரிபாடல் வழி இயற்கையோடு இயைந்த மக்களின் வழிபாட்டை உணர்ந்து கொள்வர்



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ஐந்தாம் பருவம் - V Semester முதன்மைப் பாடம் - Core IX

இலக்கியத் திறனாய்வு

L	Т	Ρ	С
4	0	0	4

Course outcomes : At the end of the course, the Student will be able to

- CO1: இலக்கியத்தின் இயல்புகள் மற்றும் வகைகளைப் பற்றித் தெரிந்து கொள்வர்
- CO2: திறனாய்வாளரின் தகுதிகள் மற்றும் ஊழு2: திறனாய்வின் தோற்றமும் வளர்ச்சியும் பற்றி அறிந்து கொள்வர்.
- CO3: திறனாய்வின் வகைகள் விரிவாக உதாரணங்களுடன் அறிந்து கொள்வர்.
- CO4: சமூகவியல் முதல் அழகியல் வரையிலான அணுகுமுறைகளை அறிவர்.

CO5: கவிதை நாடகம் நாவல் சிறுகதை போன்ற இலக்கிய வகைகளின் அமைப்பைப் புரிந்து கொள்வர்.



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ஐந்தாம் பருவம் - V Semester முதன்மைப் பாடம் - Core XIII <u>3 2 0 4</u>
தமிழக வரலாறும் பண்பாடும் - 1
Course outcomes: At the end of the course, the Student will be able to
CO1: வரலாற்றுக்கு முற்பட்ட கால தமிழகத்தை அறிந்துகொள்வர்.
CO2: வரலாற்று ஆதாரங்களை வரிசைப்படுத்திப் புரிந்து கொள்வர்.
CO3: சங்கம் இருந்ததற்கான சான்றுகள் அறிந்து கொள்வர்.
CO4: சங்க இலக்கியத்தின் சிறப்புகளைச் சான்றுகள் மூலம் அறிந்து
கொள்வர்.
CO5: பல்லவர்கால கலைப் பணிகளை கற்றுத் தெரிந்து கொள்வர்.

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Course outcomes: At the end of the course, the Student will be able to	
CO1: இசையின் தொன்மையையும் தோற்றத்தையும் பற்றி அறிமுகம் ஆவர் CO2: இசை இலக்கணங்களைத் தெரிந்து கொள்வர்.	
CO3: தாளக் கருவிகள் வாத்திய வகைகளை வகை பிரித்து அறிவர்.	
CO4: இலக்கியங்கள் வாயிலாக இசைச் செய்திகளை அறிந்து கொள்வர்.	
COS: ஆழ்வார்கள், சேக்கிழார் பாடல்களின் வாயிலாக மாணவர்கள் பண்களின் வகைகளை அறிந்து கொள்வர்.	

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ஐந்தாம் பருவும் - V Semester 3 2 0 4	
(Introtection of the introtection of the intervence of the interve	
தமிழர் கலைகள்	
Course outcomes: At the end of the course, the Student will be able to	
CO1: கட்டடக் கலை, ஓவியக் கலை, குறித்துக் கற்றுக் கொள்வர்.	
CO2: சிற்பக்கலை வார்ப்புக் கலை பற்றி அறிந்து கொள்வர்.	
CO3: இசைக்கலை, நடனக்கலை வகைகளை அழிவர்	
CO5: சமயக் கலை தத்துவக் கலை மற்றும் இலக்கியக் கலை பற்றிய	
செய்திகளைக் கற்றுத் தேர்வர்	
MSU / 2021-2022 / UG-COLLEGES / PART -III / B.A / TAMIL SEMESTER VI / MAJOR CORE - XIV	
ஆறாம் பருவம் - VI Semester	
முதன்மைப் பாடம் - Core XIV	
இலக்கணம் - புறப்பொருள்	
Course outcomes : At the end of the course, the Student will be able to	
CO1: வெட்சி,கரந்தைப் போர் முறைகளில் உள்ள பல துறைகளையும்	
எடுத்துக்காட்டுகளுடன் கற்றுக் கொள்வர்.	
CO2: படைகளோடு போரிடுதல் வஞ்சி, காஞ்சி ஆகிய துறைகள் சார்ந்த	
துறைகளைக் குறித்து அறிந்து கொள்வர்	
CO3: கோட்டையைக் கைப்பற்றும் தாக்குதல் தொடுத்தல் முறைகளை அறிந்து	
CO3: கோட்டையைக் கைப்பற்றும் தாக்குதல் தொடுத்தல் முறைகளை அறிந்து கொள்வர்.	
CO3: கோட்டையைக் கைப்பற்றும் தாக்குதல் தொடுத்தல் முறைகளை அறிந்து கொள்வர். CO4: வெற்றியைக் கொண்டாடும் தும்பை, வாகை ஆகியவைகளையும்	
CO3: கோட்டையைக் கைப்பற்றும் தாக்குதல் தொடுத்தல் முறைகளை அறிந்து கொள்வர். CO4: வெற்றியைக் கொண்டாடும் தும்பை, வாகை ஆகியவைகளையும் துறைகளையும் வகை பிரித்து அறிந்து கொள்வர்	

கொள்வர்.



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ஆறாம் பருவம் &VI Semester முதன்மைப் பாடம் &Core XV <u>⊥ ⊤ ℙ ⊂</u> <u>4 0 0 4</u> காப்பிய இலக்கியம் Course outcomes : At the end of the course, the Student will be able to CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அறியலாகும் செய்திகள் அதிகம். CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநேறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	MSU / 2021-2022 / UG-COLLEGES / PART -III / B.A / TAMIL SEMESTER VI / MAJOR COR	E - XV
முதன்மைப் பாடம் &Core XV காப்பிய இலக்கியம் Course outcomes : At the end of the course, the Student will be able to CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அறியலாகும் செய்திகள் அதிகம். CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	ஆறாம் பருவம் &VI Semester	
காப்பிய இலக்கியம் Course outcomes : At the end of the course, the Student will be able to CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அறியலாகும் செய்திகள் அதிகம். CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	முதன்மைப் பாடம் &Core XV 4 0	Г Р С 0 0 4
 Course outcomes : At the end of the course, the Student will be able to CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அறியலாகும் செய்திகள் அதிகம். CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர் 	காப்பிய இலக்கியம்	
 CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அறியலாகும் செய்திகள் அதிகம். CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர் 	Course outcomes : At the end of the course, the Student will be able to	
 CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர் CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர் 	CO1: சிலப்பதிகாரத்தில் வழக்குரைகாதை வாயிலாக மாணவர்கள் அழியலாகும் செய்திகள் அதிகம்.	
CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பியம் காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	CO2: மணிமேகலையில் மாதவி பிச்சையிட்ட காதைவழி மாணவர்கள் அறநெறிகளை அறிந்து கொள்வர்	r
காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர். CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	CO3: நாமகள் இலம்பகம் பாடல்கள் மூலம் சீவகசிந்தாமணி காப்பிய	فار
CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற் பொருள்களை உணர்ந்து கொள்வர்	காட்டும் சமுதாயத்தை மாணவர்கள் அறிந்து கொள்வர்.	
ശവ്വവ്യങ്ങള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള്ള	CO4: கம்பராமாயணம் கிட்கிந்தா காண்டம் அனுமன் படலப் பாடற்	
CO5: சீறாப்புராணம், தேம்பாவணி வாயிலாக பாடப்பகுதியில் உள்ள பாடல்களின் பொருளை அறிந்து கொள்வர்.	யாருளகளை உணாநது	

MSU / 2021-2022 / UG-COLLEGES / PART -III / B.A. / TAMIL SEMESTER VI / MAJOR CORE - XVI ஆறாம் பருவம் &VI Semester P С முதன்மைப் பாடம் &Core XVI 0 பக்தி இலக்கியம் Course outcomes : At the end of the course, the Student will be able to CO1: திருமங்கையாழ்வாரின் பெரிய திருமொழி பாடல் கருத்துகளைப் பயின்று கொள்வர். CO2: திருஞானசம்பந்தரின் பாடல்கள் வழி வாழ்வியல் அறநெறிகளை உணர்ந்து கொள்வர். CO3: திருவாசகம், சிவபுராணம் ஆகிய பாடல்களின் வழி பக்தி மார்க்கத்தை உணர்வர். CO4: சீறாப்புராணத்தில் நதி கடந்த படலத்தின் மூலம் வாழ்வியல் உண்மைகளை உணர்வர்.

CO5: இரட்சணிய மனோகரம் பாடல்கள் வழி மன ஒருமைப்பாட்டை மாணவர்கள் கற்றுக் கொள்வர்.



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MSU / 2021-2022 / UG-COLLEGES / PART -III / B.A / TAMIL SEMESTER VI / MAJOR CORE - XVII
ஆறாம் பருவம் &VI Semester
முதன்மைப் பாடம் &Core XVII
தமிழக வரலாறும் பண்பாடும் - II 🛛 🗐 4 0 0 4
Course outcomes : At the end of the course, the Student will be able to
CO1: பிற்காலச் சோழர் காலத்தை மாணவர்கள் மனதில் பதிய வைப்பர்.
CO2: பிற்காலப் பாண்டியர் காலத்தை மாணவர்கள் மனதில் பதிய வைத்தல்.
CO3: நாயக்கர் காலச் சமூகம் சமயம் இலக்கிய வகைகள் குறித்து மாணவர்கள் அறிந்து கொள்வர்
CO4: தஞ்சை மராட்டியர் காலம் மற்றும் ஆங்கிலேயர், கட்டபொம்மன், மருது
சகோதரர்கள் வேலூர் புரட்சி இன்னபிற வரலாற்று உண்மைகள்
பற்றித்தெரிந்து கொள்வர்.
CO5: தமிழகத்தின் தேசிய இயக்கங்கள் தோற்றமும் வளர்ச்சியும் பற்றி அறிந்து
கொள்வர்.
MSU / 2021-2022 / UG-COLLEGES / PART -III / B.A / TAMIL SEMESTER VI / MAJOR CORE - XVIII
ஆறாம் பருவம் &VI Semester
முதன்மைப் பாடம் &Core XVIII
இலக்கிய வரலாறு 🛛 🔹 💈 🔍 👍

Course outcomes : At the end of the course, the Student will be able to

- CO1: சங்க காலப் புலவர்கள், சங்க இலக்கிய நூல்கள் இலக்கிய உத்திகள் ஆகியவை குறித்து அறிந்து கொள்வர்
- CO2: சங்கம் மருவிய காலத்தில் எழுந்த இலக்கிய வகைகளை அறிந்திருப்பர்
- CO3: பல்லவர் கால-- சோழர் கால இலக்கிய வளர்ச்சி குறித்து நுட்பமாக அறிந்து கொள்வர்
- CO4: நாயக்கர் காலச் சிற்றிலக்கியங்கள் சமய இலக்கியங்களின் தோற்றமும் வளர்ச்சியும் இன்ன பிறவும் அறிந்து கொள்வர்

CO5: நவீன இலக்கியங்களான மரபுக்கவிதை, புதுக்கவிதை, சிறுகதை, புதினம், கட்டுரை, உரைநடை மற்றும் பிற துறைகள் குறித்த இலக்கிய மரபை அறிந்து கொள்வர்



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	MAJOR ELECTIVE - II (Optional)
	ஆறாம் பருவம் &VI Semester L T _ P _ C
	முதன்மை விருப்பப் பாடம் &Major Elective - II (Optional)
	பயண இலக்கியம்
Cou	rse outcomes: At the end of the course, the Student will be able to
CO1:	பயண இலக்கியத்தின் தோற்றமும் வளர்ச்சி பற்றியும் உள் நாட்டுப்
	பயண இலக்கியங்கள் குறித்தும் மாணவர்கள் அறிந்து கொள்வர்
CO2:	அமெரிக்காவிலுள்ள தங்க நுழைவாயில் புனைவுகளின் உலகம்
	காட்சிமனைகள் குறித்து அறிமுகம் ஆவர்.
CO3:	மன்ஹாட்டன் சுதந்திர தேவி சிலை பெருநகர குழுமம் குறித்து
	நூலாசிரியரின் பயண அனுபவத்தை அறிந்து கொள்வர்
CO4:	நீர் விளையாட்டு. தீபாவளி இரவு, ஆடல் பாடல்கள் குறித்து
	அமெரிக்க நகரங்களின் நிகழ்ச்சிப் பதிவுகளை அறிந்து கொள்வர்.
CO5:	சூதாட்டமும் கேளிக்கையும் 76 அருவி மற்றும் தலைநகரம் குறித்து
	நூலாசிரியர் தந்துள்ள பயண அனுபவத்தைப் படித்து அறிந்து
	கொள்வர்.
	ஆறாம் பருவம் &VI Semester
	முதன்மை விருப்பப் பாடம் &Major Elective - II (Optional)
	தன்வரலாற்றியல்
Cour	se outcomes : At the end of the course, the Student will be able to
CO1:	கவிஞர் கண்ணதாசன் எழுதிய "மனவாசம்" என்ற நூலின்கண் அவர்
	எழுதிய தன் வாழ்நாள் நிகழ்வுகள் முழுவதும் மாணவர்கள் அறிந்து
	ுகாளவா. வேதாளமும் முருங்கை மரமும், முள்ளின் மீது மோகன
	ராகம் அகிய கட்டுளைகளைக் கம்றக் கெளிவர்

- அறிந்து கொள்வர் CO3: கண்மணி தென்றல், நினைத்ததை முடிப்பேன், பின்னோக்கிய
- நினைவு ஆகிய கட்டுரைகள் மூலம் மலரும் நினைவுகள் கவிஞருக்கு ஏற்பட்டதை அறிந்து கொள்வர்.
- CO4: அவள் விடை பெற்றாள், தேசிய உள்ளம், பறந்து போனாளே ஆகிய அனுபவப் பனுவல்களைக் கவிஞர் கண்ணதாசன் எழுத்துகள் வழி அறிந்து கொள்வர்.
- CO5: ரோஜாவின் ராஜா, சங்கம் .ஒன்றிய சிந்தை, வாதையுற்ற வடக்கு ஆகிய கட்டுரைகள் மூலமாக நூலாசிரியரின் அனுபவங்களை அறிந்து கொள்வர்.

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MSU/2021-/PG COLLEGE/M.A.TAMIL/SEMESTER – I/CORE 1

இக்கால இலக்கியம்

கவிதை

- இலக்கிய வகைகளை குறித்த அடிப்படையான செய்திகளை அறிதல்
- காலந்தோறும் கவிஞர்களின் கருத்துப் புலப்பாட்டினை அறிதல்
- மக்களின் வாழ்வியல் குறித்த செய்திகளை அறிதல்
- இலக்கிய உத்திகள் குறித்து அறிய முற்படல்
- வாசிப்பின் அவசியத்தை உணர்தல்

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இலக்கணம் 1 - தொல்காப்பியம் - எழுத்து

கற்றல் விளைவுகள் (Course Outcomes)

- 1. மொழிக்கு அடிப்படையான எழுத்துக்களுக்கான இலக்கணங்களை அறிதல்.
- தமிழின் தொன்மை இலக்கண நூலான தொல்காப்பியத்தின் எழுத்துக் கோட்பாடுகளை அறிதல்.
- 3. பிழையின்றி எழுதுவதற்கான அடிப்படைகளை அறிமுகப்படுத்தல்.
- காலமாற்றத்தில் இலக்கண நூல்களுக்குள் ஏற்பட்ட மாற்றங்கள் குறித்து அறியச் செய்தல்.
- 5. பயன்பாட்டுச் சொற்களுக்கும் இலக்கண சொற்களுக்குமான வேறுபாடுகளை அறிதல்.



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புனைகதையும் உரைநடையும்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. புனைகதைகளின் வளர்ச்சி நிலைகளை அறிதல்.
- ஆரம்ப கால இலக்கியங்களையும் தற்கால இலக்கியங்களையும் அறிமுகப்படுத்துவதன் மூலம் தொடர் வாசிப்பு அனுபவத்தை உருவாக்குதல்.
- உரைநடை இலக்கியங்கள் இலக்கிய உலகில் கோலோச்சும் தன்மைகளை அறியச் செய்தல்
- உணர்வுப்பூர்வ இலக்கியங்களும் ஆய்விற்கு உட்படுத்தப்படும் பாங்கினை அறிதல்.
- 5. இயற்கைக் கூறுகள் இடம்பெறும் யதார்த்த நிலையைச் சுட்டல்.

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அற இலக்கியம்

கற்றல் விளைவுகள் (Course Outcomes)

- அநத்தின் இன்றியமையாமையை வலியுநத்தல்.
- 2. சமூக ஒழுக்கங்களை அறியச் செய்தல்.
- 3. எளியமுறையில் அறக்கருத்துக்களை விளங்க வைத்தல்
- 4. அறத்திற்கும் வாழ்வியலுக்குமான தொடர்புகளை உணரச் செய்தல்.
- சமயங்களின் அழச்சிந்தனைகளை அறிதல்



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நாட்டார் வழக்காற்றியல் அடிப்படைகள்

கற்றல் விளைவுகள் (Course Outcomes)

- நாட்டார் வழக்காற்றியலின் கலைச்சொற்கள் குறித்து அறிதல்.
- 2. நாட்டார் வழக்காற்றியல் குறித்த முழுமையான புரிதலை உருவாக்குதல்.
- 3. நாட்டார் வழக்காற்றியல் இலக்கியங்களை அறிந்து கொள்ளுதல்
- 4. நாட்டார் வழக்காற்றியலின் வழி கலைகளின் மேன்மையை அறிதல்
- 5. தெய்வங்கள். வழிபாட்டு முறை, சடங்குமுறைகள் என யாவற்றையும் ஆய்விற்கு உட்படுத்தி நோக்கல்.

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கற்றல் விளைவுகள் (Course Outcomes)

- 1. இதழியலின் தோற்றம் வளர்ச்சியை அறிதல்.
- இதழ்களின் வகைகளையும் படிநிலைகளையும் அறிதல்
- 3. செய்திகளின் தன்மைகளை ஆராய்தல்.

- இதழ்களின் முக்கிய அம்சங்களைப் புலப்படுத்துதல்
- 5. இதழ்கள் மாணவர்களுக்கு ஏற்படுத்திக் கொடுக்கும் வாய்ப்புகள் குறித்து அறிதல்



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மொழி வரலாறு

கற்றல் விளைவுகள் (Course Outcomes)

- 1. பேச்சுமொழி, எழுத்து மொழி வேறுபாட்டினை அறிதல்
- மொழியினங்களின் சிறப்பினை அறிதல்.
- 3. தமிழ்மொழியின் தொன்மைச் சிறப்பினை அறிதல்
- 4. தமிழ்மொழியின் வரலாற்றினை அறிதல்
- 5. தற்காலத் தமிழ் மொழியின் வளர்ச்சியினை திட்டமிடுதல்.

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இலக்கணம் II – தொல்காப்பியம் - சொல்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. தமிழ் சொற்றொடர் அமைப்பை அறிதல்
- 2. தமிழ்ச் சொற்களின் வகைமைகளை அறிந்து கொள்ளுதல்
- 3. தமிழ் மொழியின் வளர்ச்சியில் சொற்களின் தன்மைகளை அறிதல்.
- 4. தமிழ் இலக்கண நூல்களில் காணப்படும் சொற்களின் வேறுபாடுகளை அறிய விளைதல்.
- 5. தமிழ் சொற்களின் வளர்ச்சி நிலைகளை அறிந்து கொள்ளல்.



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பக்தி இலக்கியம்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. ஆன்மீகத்தில் நாட்டம் ஏற்படுதல்
- 2. மத நல்லிணக்கம் ஏற்படுத்துதல்
- 3. மன உறுதி அடைதல்
- 4. ஆன்மீகத்தின் மீது நம்பிக்கைக் கொள்ளுதல்
- 5. இறைபற்றுடைய, உறுதியான, நிலையான வாழ்க்கை வாழ வழியை அறிதல்

MSU/2021 – 2022/PG – Colleges/M.A. (Tamil)/Semester II/Core-8 சிற்றிலக்கியம்

கற்றல் விளைவுகள் (Course Outcomes)

- சிற்றிலக்கியத்தின் தன்மையினை அறிந்து கொள்ளுதல்
- சிற்றிலக்கியங்களின் வாயிலாக மக்களின் பண்பாடுகளை அறிதல்.
- சிற்றிலக்கியக் கால சமூகச் சூழலை அறிதல்.
- 4. சிற்றிலக்கியங்கள் கூறும் பல சமயக் கருத்துக்களை அறிந்து கொள்ளுதல்.
- சிற்றிலக்கியங்களின் வாயிலாக மனித உளப்பண்புகளை அறிதல்.



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தமிழ் அகராதியியல்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. அகராதிக் குறித்த அடிப்படை அறிவினை பெறுதல்.
- தமிழ் அகராதிகளின் வகைகளை அறிதல்
- புதிய தமிழ்ச் சொற்களை கண்டறிதல்
- சொற்களின் வேறுபாட்டினையும் பொருளினையும் அறிதல்.
- வட்டாரம் சார்ந்த தமிழ்ச் சொல்லகராதியை உருவாக்குதல்.

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கற்றல் விளைவுகள் (Course Outcomes)

- தமிழ் இணைய வலைத்தளங்களை உருவாக்குதல்
- கணினியில் தமிழ்த் தட்டச்சு செய்தல்

- தமிழ் இணையத்தளங்களை இனங்கண்டு கொள்ளுதல்
- இணையவழிப் படைப்புத்திறனை வெளிப்படுத்துதல்.
- இணையவழி கோப்புகளைக் கையாளும் முறையைக் கற்றுக் கொள்ளுதல்



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காப்பிய இலக்கியம்

கற்றல் விளைவுகள் (Course Outcomes)

- காப்பிய இலக்கணம், தமிழ்க்காப்பியங்களின் தோற்றமும், வளர்ச்சியும், காப்பிய வடிவமைப்பில் மாற்றங்கள் ஆகியவற்றை அறிதல்.
- சிலப்பதிகாரம், மணிமேகலை, சீவகசிந்தாமணி ஆகிய காப்பிய நுணுக்கங்களை அறிதல்.
- சூளாமணி,உதயணகுமார காவியம், நாககுமார காவியம் ஆகிய காப்பிய நயங்களைக் கற்றறிதல்.
- பெரியபுராணம், கந்தபுராணம், கம்பராமாயணம், தேம்பாவணி, சீறாப்புராணம் ஆகிய சமயக்காப்பியங்களின் திறத்தை அறிதல்.
- கண்ணகி புரட்சிக் காப்பியப் புதுமைகளையும், பூங்கொடி காப்பியம் உணர்த்தும் தமிழ்மொழியின் சிறப்புகளையும் அறிதல

இலக்கணம் III - தொல்காப்பியம் - பொருள் - I (1-5 இயல்கள்)

கற்றல் விளைவுகள் (Course Outcomes)

- 1. தொல்காப்பியத்தில் அகத்திணையியல். களவியல் இலக்கணத்தைக் கற்றறிதல்.
- 2. தொல்காப்பியத்தில் கற்பியல் மரபுகளையும், பொருளியல் திறத்தையும் அறிதல்.
- 3. தொல்காப்பியம்- புறத்திணையியலில் போர் நெறிகளைக் கற்றல்

- தொல்காப்பியத்தோடு நம்பியகப்பொருளை, ஒப்பிடுதலின்வழி, தமிழரின் வாழ்வியலில் ஏற்பட்டுள்ள மாற்றங்களையும் ,வளர்ச்சி நிலைகளையும் அறிதல்.
- 5. தொல்காப்பியம்-புறத்திணையியலோடு, புறப்பொருள் வெண்பாமாலையை, ஒப்பிடுதலின்வழி, தமிழரின் வீரவரலாற்றையும், மாற்றங்களையும் ,வளர்ச்சி நிலைகளையும் கண்டறிதல்.



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கற்றல் விளைவுகள் (Course Outcomes)

- 1. உரையாசிரியர்கள் பற்றியும், உரையின் தோற்றமும், வளர்ச்சியும் பற்றியும் அறிதல்
- 2. இலக்கண உரையாசிரியர்களும், உரை மரபும் பற்றிக் கற்றறிதல்
- இலக்கிய உரையாசிரியர்களும், உரை மரபும் பற்றி அறிதல்.
- 4. சமயநூல் உரையாசிரியர்களும், உரைமரபும் பற்றிக் கற்றறிதல்

MSU/2021-2022/PG- Colleges/ M.A.Tamil / Semester-III/ Ppr.no.16/Core- 12 ஆராய்ச்சி நெறிமுறைகள்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. ஆய்வு செய்யும் முறையையும் ஆய்வுநெறித் திட்டத்தையும் அறிதல்.
- கருதுகோளை உருவாக்கி, உற்றுநோக்கல், வினாநிரல் பட்டியல், பேட்டி ஆகியவற்றைக் கண்டறிதல்.
- 3. தமிழியல் ஆராய்ச்சியின் தோற்றம், வளர்ச்சி, நூலகப்பயன்பாடு பற்றி அறிதல்.
- 4. ஆய்வறிக்கை எழுதும் முறையைக் கற்றறிதல்.
- 5. ஆய்வேட்டின் வடிவமைப்பைக் கண்டறிதல்



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தமிழிலக்கிய மானிடவியல்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. மானிடவியலின் தேவையை அறிந்து, அதன் பரிணாமங்களை உணர்தல்.
- 2. மனித வாழ்விற்கும், பண்பாட்டிற்குமான தொடர்பின் முக்கியத்துவத்தை அறிதல்.
- 3. இலக்கிய இனவரைவியல், படிமலர்ச்சிக் கோட்பாட்டைக் கண்டறிதல்.
- 4. தொல்காப்பியமும், இனவரைவியல் கவிதையியலும் பற்றி அறிதல்.
- 5. சங்கஇலக்கியம்- உணவு உற்பத்தியும் பரிமாற்ற உறவுகளும் பற்றி உணர்தல

MSU/2021-2022/PG- Colleges/ M.A.Tamil / Semester-III/ Ppr.no.18/- சிறப்புத்தாள் -6 ஒப்பிலக்கியமும் மொழிபெயர்ப்பும்

கற்றல் விளைவுகள் (Course Outcomes)

1. ஒப்பிலக்கியத்தின் தேவையை அறிதல்.

- 2. பிரஞ்சுக் கோட்பாடு,அமெரிக்கக் கோட்பாட்டைக் கற்றறிதல்.
- 3. ஒப்பிலக்கியத்தில் புதிய பரிமாணம் பற்றி அறிதல்.
- மொழிபெயர்ப்பின் இயல்பும், மரபும், மொழிபெயர்ப்பாளரின் தகுதிகள், கடமைகள் பற்றிக் கண்டறிதல்.
- 5. மொழிபெயர்ப்புக் கோட்பாடுகள்,மொழிபெயர்ப்பு உத்திகள், மொழிபெயர்ப்புச் சிக்கல்கள் ஆகியவற்றை அறிதல்.



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பண்டை இலக்கியம்

கற்றல் விளைவுகள் (Course Outcomes)

- 1. தமிழரின் அகப்புறக் கோட்பாடுகளை அறிவதன் மூலம் பழந்தமிழர் மாண்பை அறிதல்.
- பழந்தமிழரின் நெய்தல், குறிஞ்சி, பாலைத் திணை ஒழுக்கங்களையும் வாழ்வியலையும், நிலப்பரப்பின் தன்மைகளையும் அறிதல்.
- 3. மருதநிலம், முல்லைநில மக்களின் வாழ்வியல் கூறுகளை அறிதல்.
- தொன்மையான முருக வழிபாடு, சேர மன்னர்களின் வரலாற்றுச் செய்திகள், பாண்டியர் பரம்பரையின் பெருமை உணர்தல்.
- சங்க இலக்கியங்களான எட்டுத்தொகை, பத்துப்பாட்டில் இரண்டு நூல்களை முழுமையாக கற்று, சங்கப் பனுவலின் செம்மாந்த பண்பினை, நூல் அமைப்பினை அறிதல்.

MSU/2021-2022/PG-Colleges/M.A.(Tamil)/ Semester – IV/ Ppr. No.20/ Core- 14

இலக்கணம் - 🗤 - தொல்காப்பியம் - பொருள் - 🗉 (6-9 இயல்கள்)

கற்றல் விளைவுகள் (Course Outcomes)

- மனித உணர்வுகளின் வெளிப்பாடாக அமையும் மெய்ப்பாட்டியலையும் உவமைகள் குறித்த கருத்துக்களையும் அறிந்து கொள்கின்றனர்.
- பழந்தமிழரின் செய்யுள் இயற்றும் முறைமையினையும் மரபியல் வழி சுற்றுச்சூழலையும் அறிந்து கொள்கின்றனர்.
- தொல்காப்பியர் காலத்தில் இருந்து பிற்கால யாப்பு விதிகள் காலந்தோறும் அடைந்து வரும் மாற்றங்களை அறிகின்றனர்.
- 4. தமிழ்ச் செய்யுள் மரபின் நூல் மரபுகளின் தனித்தன்மைகளை அறிகின்றனர்.



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கற்றல் விளைவுகள் (Course Outcomes)

- இலக்கியத்தின் அடிப்படைத்தன்மை, பயன்கள், பாகுபாடுகளை அறிந்து வாழ்க்கைக்கும் இலக்கியத்திற்குமான உறவை அறிதல்.
- எந்தவொரு இலக்கியத்தின் கொள்கை கோட்பாடுகளை அறிந்து, இலக்கிய வகை, வரலாற்றை உணர்ந்து வெளிப்படுத்தவும் முடியும்.
- மதிப்புரை, திறனாய்வு மற்றும் ஆராய்ச்சியின் நுட்பங்களை அறியமுடியும். திறனாய்வின் வரலாறு பயன்களை, தகுதிகளையும் அறிந்து நல்ல திறனாய்வாளராக உருவாக அடித்தளமிடுகிறது.
- இலக்கியத்திறனாய்வின் விளக்கத்தினையும் வகைகளை அறிந்து இலக்கியங்களில் பயன்படுத்த இயலும்.
- கற்ற பாடப்பகுதியை, செயல்முறை பயிற்சியாக செய்வதன் மூலம் பிற்கால ஆய்வுக்கு உரமூட்டுகிறது.

தமிழ் நாடக் கலை

கற்றல் விளைவுகள் (Course Outcomes)

- தமிழ் நாடக மரபை வரலாற்று அடிப்படையில் அறிகின்றனர். நாடகம் மூலம் சமுதாயக் கருத்தை மக்களுக்கு தெரியப்படுத்துதல்.
- 20ஆம் நூற்றாண்டு நாடக வளர்ச்சியினையும் போக்கினையும் மதிப்பீடு செய்து அறிந்து கொள்கின்றனர்.
- கூத்துப்பிரதியின் வாசிப்பு அனுபவத்தையும் காலப்போக்கில் சீர்திருத்த நாடகத்தின் தேவைகளையும் உணர்ந்து கொள்கின்றனர்.
- பெண்ணிய, தலித்திய கருத்தாகத் தேவைகளை நாடகப்பிரதிகள் மூலம் உணர்ந்து கொள்கின்றனர்.
- கல்வி நிறுவனம் சார்ந்த படிப்பதற்கும் நடிப்பதற்கும் ஏற்ற நாடகங்களை அறிந்து கொள்ள மொழிபெயர்ப்பு நாடகம் பயன்படுகிறது.



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நான்காம் பருவம்

ஆய்வேடு (Project Work)

கற்றல் விளைவுகள் (Course Outcomes)

- ஆய்வேடு இலக்கிய, பண்பாட்டு, மானுடவியல், நாட்டார் வழக்காற்றியல் போன்ற களங்களைத் தேர்வு செய்து ஆய்வு செய்யத் தூண்டுகிறது.
- ஆய்வுத் தலைப்பிற்கு ஏற்ற நூல்களைத் தேர்வு செய்து ஆய்வு நோக்கத்தை உணர்த்துகிறது.
- 3. கற்றறிந்த நூல்களை ஆய்வுக்கு ஏற்ப பொருத்தமுற பயன்படுத்த வழிகோல்கிறது.
- 4. சமூக வரலாற்றையும் பண்பாட்டு விழிப்புணர்வையும் அடைய உதவுகிறது.
- ஆய்வு மெய்மைகள் தற்சார்பற்றதாகவும் சமூகத்திற்கு பயன்படுவதாகவும், பின் ஆய்வுகளுக்குத் தூண்டுவதாகவும் அமைதல் வேண்டும்.



PG & RESEARCH DEPARTMENT OF COMMERCE

B.COM FINANCIAL ACCOUNTING –I

Semester – I CMCO11

CO – 1	To understand book keeping and accounting concepts, conventions and accounting
	information.
CO - 2	To prepare financial statements in accordance with generally accepted accounting principles.
CO - 3	To understand about the preparation of Bank Reconciliation Statement.
CO – 4	To estimate the Bill of Exchange and its accounting treatment.
CO – 5	To demonstrate the understanding of the various methods of depreciation.

B.COM

BUSINESS ORGANISATION AND MANAGEMENT

Semester CMCO12 Τ

CO – 1	To know the various forms of business organisation and its functions
CO - 2	To acquire knowledge about manufacturing and service sector in India
CO - 3	To understand the latest developments and technological innovations in the organisation of business
CO – 4	To develop knowledge about evolution of management thoughts and to better understanding of planning and decision making
CO – 5	To give an idea about organisation structure and different types of organisation



Thoothukudi- 628 002, Tamil Nadu.

B.COM BUSINESS ECONOMICS

CO-1To understand business economics and importance of business economics for
managerial decision makingCO-2To determine the position of firms using demand and supply conditionsCO-3To analyse cost effective production techniquesCO-4To use the demand estimation to forecast demand trends and changeCO-5To analyse market situations to establish market equilibrium

I B. COM FINANCIAL ACCOUNTING – II

II SEMESTER CMCO21

Semester

CACO11

Ι

CO – 1	To know the similarities between consignment and joint venture
CO - 2	To prepare various accounts namely accounts of non-trading concern and professionals, royalties
CO - 3	To understand the facts related to consignment and joint venture with normal and abnormal losses
CO – 4	To know about the preparation of balance sheet and income and expenditure account
CO – 5	To identify the nature of expenses as capital and revenue for correct presentation in
	the final accounts of any company

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Thoothukudi- 628 002, Tamil Nadu.

I B.COM PRINCIPLES OF INSURANCE

II SEMESTER CMCO22

CO – 1	To understand the nature, importance and classification of markets
CO - 2	To understand the functions of marketing and marketing mix
CO - 3	To evaluate the life cycle of products
CO – 4	To understand about the product line and product life cycle through modification
CO – 5	To know the various channels of distribution

I B. COM MARKETING

II SEMESTER CACO21

CO – 1	To know the overall aspects of Life Insurance and General Insurance
CO - 2	To understand the classification of Life Insurance
CO - 3	To understand the concept of Fire Insurance
CO – 4	understand the concept and progress of Marine Insurance in India
CO – 5	To ascertain the principles of Personal Accident Insurance, Motor Insurance,
	Burglary Insurance Agricultural Insurance and Health Insurance
	burgiary insurance, Agriculturar insurance and fieldin insurance



Thoothukudi- 628 002, Tamil Nadu.

II B. COM. ADVANCED FINANCIAL ACCOUNTING

III SEMESTER CMCO31

CO – 1	To understand the accounting system of branch and departmental accounts
CO - 2	To know the preliminaries before admitting a person as a partner
CO - 3	To understand the various kinds of goodwill treatment followed in partnership
	accounts
CO - 4	To understand the dissolution of partnership and partnership firms
CO-4	To understand the dissolution of participant participant participant
CO – 5	To understand the insolvency of a partner or all partners and the Garner Vs Murray
	mlo
	ruie

B. COM

BANKING THEORY LAW AND PRACTICE

III SEMESTER CMCO32

CO – 1	To understand the basic concept used in banking
CO - 2	To know the various kinds of banking and their functions
CO - 3	To know the banking product or services
CO – 4	To know the development of technology in banking company
CO – 5	To know the Reserve Bank of India and their importance in banking industry


Thoothukudi- 628 002, Tamil Nadu.

B. COM COMPUTER APPLICATIONS IN BUSINESS

III SEMESTER CACOP1

CO – 1	To understand the basic concepts and terminologies used
CO - 2	To familiarize in MS Word
CO - 3	To familiarize in MS PowerPoint
CO – 4	To prepare a document in excel program
CO – 5	To know the internet protocols, to compose and view email etc

B. COM INTRODUCTION TO ACCOUNTANCY

II SEMESTER CNCO31

CO – 1	To know the basic accounting concepts and accounting rules
CO - 2	To prepare the journal and know the subsidiary books
CO - 3	To prepare the ledger accounts and balancing
CO – 4	To prepare the trial balance
CO – 5	To prepare the final accounts



Thoothukudi- 628 002, Tamil Nadu.

B. COM BUSINESS COMMUNICATION

III SEMESTER CSCO31

CO – 1	To know the barriers of communication and essentials of a good business
	communication
CO - 2	To know the various kinds of business correspondence and to include the important points to be covered
CO - 3	To know the banking, insurance and agency correspondence
CO – 4	To know different secretarial correspondence
CO – 5	To know how to prepare an effective resume and technical developments in the field
	of communication

II B. COM QUANTITATIVE TECHNIQUES

IV SEMESTER CMCO41

CO – 1	To analyse the practical applications of Analytical Geometry in business field	
CO - 2	To know about matrix algebra, scalar multiplication and also to find out the inverse	
	of a matrix	
CO - 3	To know the measures of central tendency and to apply to measure averages	
~~ .		
CO – 4	To apply the tools on measures of dispersion that are useful for estimating	
	variationa	
	variations	
CO – 5	To apply the various methods for calculating correlation coefficient	



Thoothukudi- 628 002, Tamil Nadu.

II B. COM LOGISTIC MANAGEMENT

IV SEMESTER CMCO42

CO – 1	To introduce basic concepts in logistics with special emphasis on maritime
	shipping
CO - 2	To understand multimodal transport concept and inventory services
CO - 3	To understand the concept of life cycle support and measurement system
CO – 4	To know about electronic data interchange standards
CO – 5	To familiarise with multimodal transport and warehouse resources and strategies

II B. COM APPLICATION OF TALLY IN ACCOUNTING

IV SEMESTER CACOP2

CO – 1	To develop the computerised knowledge in accounting
CO - 2	To impart the basic principles and concepts of computerized accounting
CO - 3	To gain knowledge on the use and application of tally
CO – 4	To learn about the concept of vouchers
CO – 5	To create company in tally



Thoothukudi- 628 002, Tamil Nadu.

II B. COM ENTREPRENEURSHIP DEVELOPMENT

IV SEMESTER CSCO41

CO – 1	To understand the significance of entrepreneurial skills
CO - 2	To know about the developing ideas and techniques of business
CO - 3	To understand about the procedures of start up
CO – 4	To identify the institutional support provided to entrepreneurs
CO – 5	To analyse the application of various accounting statements

III B.Com.

CORPORATE ACCOUNTING I

V Semester AMCO51

CO – 1	To Gain knowledge about the basic concepts of company accounts as per the
	provision of the Companies Act, 2013
CO - 2	To Prepare final account of companies and value goodwill and shares with ease
CO - 3	To Get a clear picture about amalgamation, absorption and reconstruction of
	companies
CO – 4	To Gain knowledge on issue of debentures and its methods
CO – 5	To Get a clear idea about shares, buy back of shares and redemption of shares



Thoothukudi- 628 002, Tamil Nadu.

III B.Com. COST ACCOUNTING

V Semester AMCO52

CO – 1	To Get adequate knowledge of costing and its types
CO - 2	To Prepare cost sheet and different types of budgets easily
CO - 3	To Ascertain normal and abnormal losses in each process, break-even point practically
CO – 4	To Understand the causes for variation between standards and actual
CO – 5	To Gain knowledge on different types of overheads

III B.Com.	V Semester
BUSINESS LAW	MC053

CO – 1	To Understand the basic concepts of agreements, contracts as per Indian Contract
	Act 1872 and Sale of Goos Act
CO - 2	To Gain in-depth knowledge about performance of contract, contract of agency and bailment
CO - 3	To Understand the procedure for entering into the various types of contracts
CO – 4	To Gain knowledge on offer, acceptance and consideration
CO – 5	To Gain knowledge on contract of sale



Thoothukudi- 628 002, Tamil Nadu.

III B.Com.

RESEARCH METHODOLOGY

V Semester AMCO54

CO – 1	To Acquire deep insights about research and its methodology
CO - 2	To Conduct research in a systematic manner
CO - 3	To Prepare research report without any flaws
CO – 4	To Identify the mechanics of research report writing
CO – 5	To Analyse the different types of sampling design

III B.Com.

INCOME TAX LAW & PRACTICE I

V Semester AECO51

CO – 1	To Gain knowledge about the basic concepts of Income Tax
CO - 2	To Ascertain taxable income from salary, house property, and business income practically
CO - 3	To Identify the Income from other sources
CO – 4	To Understanding the provisions for filling and returns of Income
CO – 5	To Gain knowledge on residential status and tax exemptions



Thoothukudi- 628 002, Tamil Nadu.

III B.Com.

PERSONALITY DEVELOPMENT

V Semester ACSB51

CO – 1	To Acquire traits to become positive personality
CO - 2	To Learn how to programme sub-conscious mind
CO - 3	To Individual or in-group class presentations pertaining to the applications of concepts, theories or issues in human development
CO – 4	To Develop and maintain a Reflection
CO – 5	To Attendance, classroom participation, small group interactions

III B.Com.

CORPORATE ACCOUNTING II

VI Semester AMCO61

CO – 1	To Prepare the accounts banking companies and electricity companies easily
CO - 2	To Draw up liquidator's final statement of accounts
CO - 3	To Gain knowledge about human resource accounting
CO – 4	To Gain knowledge about Holding Companies
CO – 5	To Gain knowledge about Insurance company accounts



Thoothukudi- 628 002, Tamil Nadu.

III B.Com.

MANAGEMENT ACCOUNTING

VI Semester

AMCO62

CO – 1	To Gain deep knowledge about the principles, functions and tools of management
	accounting
CO - 2	To Prepare fund flow and cash flow statements and help the students analyse and interpret financial data using ratios
CO - 3	To Take decisions by adopting the concepts capital budgeting
CO – 4	To Got knowledge about the calculation of various Ratios
CO – 5	To Gained knowledge about Financial Statement analysis

III B.Com.

INDUSTRIAL LAW

VI Semester AMCO63

CO – 1	To Understand in detail various Acts like Factories Act, Workmen's Compensation	
	Act, Industrial Disputes Act, Trade Union Act, and ESI Act	
CO - 2	To Gain adequate knowledge of the rights and benefits available for employees in India	
CO - 3	To Understand Social and Industrial aspects of psychology of work	
CO – 4	To Understand historical aspects of labour movement in India	
CO – 5	To gain practical understanding about functioning of various labour institutions	



Thoothukudi- 628 002, Tamil Nadu.

VIG

	III D.COM	. VI Semester	
AUDITING AMCO6		G AMCO64	
	CO – 1	To Know the concepts and importance of auditing	
	CO - 2	To Gain knowledge of the procedures followed by auditors while auditing	
	CO - 3	To Know the verification process and vouching methods of various transactions	
	CO – 4	To Understand the valuation methods of various kinds of assets and liabilities	

CO – 5	To learn the qualifications, appointment, removal, Rights and duties of company
	auditors

III B.Com.

INCOME TAX LAW & PRACTICE II

VI Semester AECO61

CO – 1	To Acquire deep insights on assessment procedures and types of assessments	
CO - 2	To Ascertain capital gains and income from other sources	
CO - 3	To Compute tax liability of individuals by following deductions U/S 80	
CO – 4	To Familiar with the computation of capital gain	
CO – 5	To Aware about the income tax authorities and their powers and duties	



Thoothukudi- 628 002, Tamil Nadu.

III B.Com. MAJOR PROJECT

VI Semester AMCO6P

CO – 1	To Gain better understanding of research methodology through practical experience
CO - 2	To Develop analytical and problem-solving skills
CO - 3	To Prepare project report in a structured manner
CO – 4	To Gained knowledge on statistical tools
CO – 5	To Aware about the Methodologies

I M.Com.

ACCOUNTING FOR MANAGEMENT

I Semester ZKCM11

CO – 1	To Have a good understanding of the applicability of financial statements for	
	decision making	
CO - 2	To Gain knowledge of preparation, analysis and interpretation of financial statements	
CO - 3	To Describe the usage of management accounting tools	
CO – 4	To Prepare cash flow and funds flow statements	
CO – 5	To Gain mastery over the preparation of variance analysis	



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I M.Com. I Semester	
STATISTICS ZKCM12	
CO – 1	Gain knowledge about probability distribution and its application to business
CO - 2	To Get an understanding about hypothesis and its testing
CO - 3	To Gain knowledge of non-parametric tests
CO – 4	To Learn about statistical decision theory
CO – 5	To Gain an understanding of statistical quality control

I M.Com.	I Semester	
Management Concepts and Organisational Behaviour	ZKCM13	

CO – 1	To Gain knowledge about the concepts of Management
CO - 2	To Get an understanding about the behavioural change based on Motivation
CO - 3	To Gain knowledge of the Group Dynamics and conflict management
CO – 4	To Learn about tactics to gain power
CO – 5	To Gain an understanding of Organisational change and development

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I M.Com.

INSURANCE AND RISK MANAGEMENT

I Semester ZKCM14

CO – 1	To Gain competence on Insurance at an advanced level
CO - 2	To Describe the basic Insurance, rules, policy, Risk in the workplace, etc
CO - 3	To Gain knowledge on the principles of life insurance and types of policies
CO – 4	To Understand the nature and types of non-life insurance policies
CO – 5	To Familiarize on the various aspects of risk management

I M.Com. INTERNATIONAL BUSINESS

I Semester ZKCM15

CO – 1	To Gain knowledge on the basics of international business
CO - 2	To Get an acquaintance on the international trading environment
CO - 3	To Understand the multinational enterprises
CO – 4	To Get the description of various aspects of international financial management
CO – 5	To Gain an understanding on the recent developments in international business



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I M.Com.

ADVANCED FINANCIAL MANAGEMENT

II Semester ZKCM21

CO – 1	To Gain an understanding of the theoretical framework of financial management
	in business corporations
CO - 2	To Understand various sources of financing and financial planning
CO - 3	To Describe management of assets of the company
CO – 4	To Understand leverages
CO – 5	To Gain an understanding of the capital structure and dividend theories

I M.Com. QUANTITATIVE TECHNIQUES

II Semester ZKCM22

CO – 1	To Gain knowledge about formulation of transportation problem
CO - 2	To Get an outstanding about assignment problems
CO - 3	To Know about project management and queuing models
CO – 4	To Gain an understanding about the replacement analysis and simulation
CO – 5	To understand the project Management and queuing models



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I M.Com.

CORPORATE LEGAL FRAMEWORK

II Semester ZKCM23

CO – 1	To Gain knowledge about payment of wages, bonus, industrial disputes and sale of
	goods act
CO - 2	To Know about provisions of companies act 2013
CO - 3	To Understanding about Foreign Exchange Management Regulation Act 1999
CO – 4	To Gain knowledge of Environmental Regulation Act
CO – 5	To Gain the knowledge of Legal perspective and its practice to improve the
	business

I M.Com.

II Semester

ENTERPRISE RESOURCE PLANNING (ERP)

ZKCM24

CO – 1	To Know the evaluation of ERP, systems, technology and the background of ERP
CO - 2	To Appreciate the various aspects of business processes
CO - 3	To Gain knowledge about BPR
CO – 4	To Get an understanding about the ERP system implementation
CO – 5	To Know about SCM and CRM



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I M.Com.

CORPORATE SOCIAL RESPONSIBILITY

II Semester ZKCM25

CO – 1	To Have gained all essential and fundamental knowledge on the principles and
	practices of CSR in India
CO - 2	To Acquire the skill of implementing the same in their own enterprises as and when they bring up their start-ups
CO - 3	To Appreciate governance of CSR activities
CO – 4	To Have knowledge of monitoring CSR activities
CO – 5	To Know about CSR standards and audit

I M.Com.

CUSTOMER RELATIONSHIP MANAGEMENT

II Semester ZKCE23

CO – 1	Gain skill-based knowledge of Customer Relationship Management
CO - 2	To Understand the concepts and principles of CRM
CO - 3	To Gain knowledge on the need and importance of maintaining good customer relationship
CO – 4	To Gain knowledge of strategic customer acquisition and retention techniques in CRM
CO – 5	To Describe the conceptual aspects of service quality



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II M.Com. ADVANCED CORPORATE ACCOUNTING

III Semester ZKCM31

CO – 1	To On the successful completion of this course the student will be able to gain
	knowledge and understand the concepts and practices of company accounts
CO - 2	To The students shall have a comprehensive understanding on the advanced issues in accounting
CO - 3	To The students shall acquire a thorough knowledge in banking accounts. It helps
	them even to appear for competitive bank examinations
CO – 4	To The students shall get an exposure on the accounts of electricity companies
CO – 5	To understand the techniques of restructuring and liquidating corporate entities

II M.Com.

TAXATION AND TAX PLANNING

III Semester ZKCM32

CO – 1	To Thorough with the concepts of Taxation
CO - 2	To Prepare accounts under different heads of income
CO - 3	To Prepare taxable statements
CO – 4	To File Income Tax returns
CO – 5	To Gain knowledge of tax deductions



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II M.Com. COMPUTERIZED ACCOUNTING WITH TALLY

III Semester ZKCL31

CO – 1	To Prepare the accounts with accounting software
CO - 2	To Prepare the vouchers and insert into the system
CO - 3	To File GST returns and prepare GST reports
CO – 4	To Prepare the financial reports
CO – 5	To Gain knowledge of interest calculation

II M.Com. HUMAN RESOURCE MANAGEMENT

III Semester ZKCM33

CO - 1	To Know the basics present trend in Human Resource Management
00 -	To the custor Provent from the custor from the custor of t
CO = 2	To Help furnish the various job related aspects
CO• 2	To help furnish the various job-fetated aspects
<u> </u>	
CO - 3	To Know various aspects of Human development related issues
CO - 4	To Evaluate the quality aspects of human resources
00 1	To Dividue the quality aspects of human resources
CO 5	To Coin on understanding about the sofaty agreets of Human Descures
10 - 3	To Gam an understanding about the safety aspects of Human Resource

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II M.Com.

CO – 1

BUSINESS RESEARCH METHODS

ZKCM34 To Understand the Concepts Relating to Business Research, Types and Process CO - 2 To Identify the Research Problem and Draw the Design

0-2	To identify the Research Problem and Draw the Design
CO - 3	To Prepare Questionnaire and Interview Schedule and Formulate & Test the
	Hypothesis
CO – 4	To Adopt Appropriate Statistical Tools for the Inferences
CO – 5	To Write a Research Report

II M.Com. **CONSUMER RIGHTS AND EDUCATION**

III Semester **ZKCE31**

III Semester

CO – 1	To Understand the various terms related to Consumers
CO - 2	To Know the Consumers rights and duties and how to enforce their rights
CO - 3	To Gain knowledge of the provisions and procedures under Consumer Protection
	Act
CO – 4	To Familiar with Consumer related Legislations and Organisations
CO – 5	To Know the methods of creating awareness and education



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II M.Com. APPLIED COSTING

CO - 1To Gain familiarity with the various cost concepts, and elements of costCO - 2To Prepare cost sheetsCO - 3To Apply different methods and techniques of cost controlCO - 4To Gain knowledge of different methods of payment of wages and incentivesCO - 5Get acquaintance with the application of Marginal costing for Business decision
making

II M.Com. INDIRECT TAXATION

IV Semester ZKCM42

IV Semester

ZKCM41

CO – 1	To Students will get an understanding on indirect taxation system in India
CO - 2	To Students will get working knowledge on GST
CO - 3	To Students will be able to compute GST
CO – 4	To Students will prepare and submit returns for GST
CO – 5	To Students will gain knowledge about customs procedure

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II M.Com.	IV Semester
E-COMMERCE	ZKCM43

CO – 1	To Students shall understand the fundamental principles of e-business and e-
	commerce
CO - 2	To understand the impact of information and communication technologies on business
CO - 3	To understand the tools and services used by virtual e-commerce sites
CO – 4	To make the students to learn about the online marketing
CO – 5	To get the knowledge about the current e-business

II M.Com.

FINANCIAL MARKETS AND INSTITUTIONS

IV Semester ZKCM44

CO – 1	Understand the basic concepts of financial markets
CO - 2	To Gain knowledge on the working of commercial paper market, including bill market
CO - 3	To Describe the evolution of capital market
CO – 4	To Understand the functioning of various financial institutions such as NABARD, EXIM bank, etc
CO – 5	To Know the working of various credit rating agencies such as CRISIL, etc



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PG & RESEARCH DEPARTMENT OF CHEMISTRY

I B.Sc. Chemistry/ Semester I

Inorganic Chemistry- I

Sub Code: CMCH11

CO – 1	Recall the structure of an atom and explain the theories and concepts that go with
	it
CO - 2	Identify and classify the elements, as well as knowing the periodic properties
CO - 3	Discuss the theories of chemical bonding and how they are used to explain the
	structure and properties of various molecules
CO – 4	Compare the general characters of sand block elements
CO – 5	Classify the types of volumetric analysis and choose suitable indicators for
	various titrations

I B.Sc. Chemistry/ Semester I

Professional English for Physical Sciences -I

Sub Code: CPPS11

CO – 1	Recognise their own ability to improve their own competence in using the language
CO - 2	Use language for speaking with confidence in an intelligible and acceptable manner
CO - 3	Understand the importance of reading for life and read independently unfamiliar texts with comprehension
CO – 4	Understand the importance of writing in academic life and write simple sentences without committing error of spelling or grammar
CO – 5	Develop strategic competence that will help in efficient communication



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I B.Sc. Chemistry/ Semester I

Inorganic Quantitative (Volumetric) Analysis -I

Sub Code: CMCHP1

CO – 1	Develop the practical skill in quantitative analysis
CO - 2	Analyze the principle of different titrations
CO - 3	Determine the amount of acid and alkali in the given solution
CO – 4	Apply the principles of permanganometric titration
CO – 5	Estimate amount of oxalate and ferrous ammonium sulphate using permanganometric titration

I B.Sc. Chemistry/ Semester II Professional English for Physical Sciences - II

Sub Code: CPPS21

CO – 1	RecallbasicconceptsoforganicchemistryandNomenclatureoforganiccompounds
CO - 2	Analyze different types of organic reactions and apply their mechanisms to various reaction
CO - 3	Discussthestructureandrelativereactivitiesofvariouscarbonylcompounds
CO – 4	Outline the preparation and discuss the properties and uses of organometallic and Sulphur containing organic compounds
CO – 5	Explain the theories and conformational isomers of acyclic/cyclic compounds



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I B.Sc. Chemistry/ Semester II

Organic Chemistry – I

Sub Code: CMCH21

CO – 1	Attend interview swith boldness and confidence
CO - 2	Adapteasily in to the workplace context, having become communicatively competent
CO - 3	Apply to the Research & Development organizations/sections in companies and offices with winning Proposals
CO – 4	Enhance the creativity of the students
CO – 5	Think of innovative ways to solve issues in the work place

I B.Sc. Chemistry/ Semester II

Inorganic Quantitative (Volumetric) Analysis-II

Sub Code: CMCHP2

CO – 1	Outline the principles of Iodometric, dichrometric and complexometric titrations
CO - 2	Estimate Iodometrically the amount of Cu ²⁺ and Dichromate ion
CO - 3	Estimate Dichrometrically the amount of ferrous ion and Dichromate ion
CO – 4	Determine the concentrations of metalions (Zn ²⁺ ,Pb ²⁺ , Mg ⁺ andCu ²⁺) using
	complexometric titrations
CO – 5	Determine the Total Hardness of water using complexometric titrations



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II B.Sc. Chemistry/ Semester III Physical Chemistry-I

Sub Code: CMCH31

CO – 1	Compare the behaviour of ideal and real gases
CO - 2	Develop knowledge on the concept to vapour pressure and distinguish deal solutions from non-ideal solutions
CO - 3	Analyze the structure of crystals and explains the imperfections in crystal systems
CO – 4	Explain the activity of isotopes and discuss the applications of radioisotopes
CO – 5	Discuss the kinetics of photochemical reactions and illustrate the photophysical
	process

II B.Sc. Chemistry/ Semester III Skill Based – I / Food Chemistry

Subt Code: CSCH32

CO – 1	Analyse the needs of foods to human and other living things
CO - 2	List out important Nutrients, Vitamins and Minerals to the human
CO - 3	Discuss on food additives and preservative methods
CO – 4	Explain the food adulterations and analyse adulterants available in the common
	foods
CO – 5	Illustrate the various food regulation laws and standards



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II B.Sc. Chemistry / Semester III

Organic Preparation & Inorganic Qualitative Analysis

Sub Code: CMCHP3

CO – 1	List out the compound stobe prepared and discuss the procedure for preparations
CO - 2	Observe the physical state, odour, colour and solubility of the given organic compound
CO - 3	Exhibit a solid derivative with respect to the identified functional group
CO – 4	Discuss the principle of qualitative analysis and apply the principle for the analysis
	of given salt
CO – 5	Analyse systematically the given salt mixture and determine the acidic and basic
	radicals present in it

Allied Chemistry – I / Semester III

Sub Code: CACH11

CO – 1	Apply theories of chemical bonding predict the geometry of molecules and their
	stability
CO - 2	Analyze the types of reagents and intermediates involved in different organic reactions
CO - 3	Discuss kinetic theory of gases, solid and liquid state
CO – 4	Outline the preparation, properties and applications of cement, glass and explosives
CO – 5	Discuss the methods of preparation and importance of drugs for long life



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Allied Chemistry Practical – I / Semester III Inorganic Quantitative Analysis-I

Sub Code: CACHP1

CO – 1	Develop the practical skill in quantitative analysis
CO - 2	Analyze the principle of different titrations
CO - 3	Apply the principles of volumetric analysis to determine the concentration of acids/bases/ions
CO – 4	Determine volumetrically the amount of acids and bases in the given solution
CO – 5	Estimate the amount of inorganic compounds using permanganometric titrations

Non-major Elective / Semester III Water Management

Sub Code: CNCH31

CO – 1	Classify the water pollution and analyse the water pollutants
CO - 2	List out different water quality parameters and discuss its importance
CO - 3	Elaborate water purification processes and show the advantages of different methods
CO – 4	Apply various methods to treat waste water and analyze the treated water
CO – 5	Develop the water storage methods



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II B.Sc. Chemistry / Semester IV

Inorganic Chemistry-II

Sub Code: CMCH41

CO – 1	Explain the basic concepts of acids and bases and analyze the general
	characteristics of non-aqueous solvents
CO - 2	Compare the general characteristics of d and f block elements and select the suitable transition and inner transition elements for specific uses
CO - 3	Elaborate the Principle and Procedure of metal extraction and identify most useful compounds of metals
CO – 4	Discuss the various compounds of halogens and noble gases
CO – 5	Summarize the methods to analyze data in the experiments

II B.Sc. Chemistry / Semester IV

Skilled Based –II / Industrial Chemistry

Sub Code: CSCH42

CO – 1	Explain suitable water purification techniques
CO - 2	Summarize the fuels of petroleum and bio fuels
CO - 3	Discuss the electrical insulating material and list out the commercial batteries and
	its uses
CO – 4	Explain the corrosion and its prevention
CO – 5	Identify the chemicals used in day-to-day life



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II B.Sc. Chemistry / Semester IV Inorganic Qualitative Analysis

Sub Code: CMCHP4

CO – 1	Define acidic and basic radicals and list out the anions and cations to be analyzed
CO - 2	Discuss the principle of qualitative analysis
CO - 3	Apply the principle for the analysis of given salt mixture
CO – 4	Analyse systematically the given salt mixture
CO – 5	Determine the acidic and basic radicals present in it

Allied Chemistry – II / Semester IV

Sub Code: CACH21

CO – 1	Analyse the chemical and biological applications of coordination compounds
CO - 2	Explain the electronic effects and apply these to organic compounds
CO - 3	Define electromotive force and Analyse its uses
CO – 4	Discuss structure and biological functions of carbohydrates and amino acids
<u>CO</u> – 5	Analyse common diseases and important tablets used to cure the diseases



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Inorganic Qualitative Analysis -II / Semester IV

Sub Code: CACHP2

CO – 1	Develop the practical skill on qualitative analysis
CO - 2	Analyse the given inorganic simple salt using preliminary and other specific radical
CO - 3	Report the confirmatory tests for interfering acid radicals
CO – 4	Illustrate the interfering radicals and to carry our systematic analysis
CO – 5	Identify the cations given in the simple salt

Non-major Elective / Semester IV Chemistry in Every Day Life

Sub Code: CNCH41

CO – 1	Outline the daily used Cosmetics
CO - 2	List out the soaps and detergents and classify the soaps
CO - 3	Explain about the nutrients from food materials
CO – 4	Discuss the fertilizers and pesticides necessary for the grow of plants
CO – 5	Distinguish fibres, yarns & Fabrics and Identify the dyes used indyeing



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III B.Sc. Chemistry / Semester V Inorganic Chemistry-II

Subject Code: AMCH51

CO – 1	Discuss the various compounds of noble gases
CO - 2	Compare the general characteristics of d and f block elements and select the suitable transition and inner transition elements
CO - 3	Elaborate the Principle and Procedure of metal extraction and identify most useful compounds of metals
CO – 4	Learn the basic analytical methods
CO – 5	Learn the basic analytical methods

III B.Sc. Chemistry / Semester V Physical Chemistry-II

Sub Code: AMCH52

CO – 1	Understand the concepts of thermodynamics
CO - 2	Identify the importance of I, II & III laws of thermodynamics
CO - 3	Construct the phase diagram for different heterogeneous system in equilibrium
CO – 4	Find the applications of solubility product principle and explain different types of conductometric titrations in the laboratory to find the end point
CO – 5	Understand the electromotive force



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III B.Sc. Chemistry- Semester V

Organic Chemistry-III

Sub Code: AMCH53

CO – 1	Interpret the elements of symmetry and apply Cahn In gold Prelog'srule
CO - 2	Discuss the geometrical configuration (Cis/Trans and/or Eor Z) and know the conformational analysis
CO - 3	Identify the aromatic organic compounds Using Huckel's rule and study the electrophilic and nucleophilc substitution reactions
CO – 4	List out the important heterocyclic compounds and analyse its aromatic characters
CO – 5	Demonstrate various theories of colour and constituents and discuss the structure of naphthalene and anthracene

III B.Sc. Chemistry / Semester V Elective- Polymer Chemistry

Sub Code: AECH51

CO – 1	know the concept of polymerization and types of polymers
CO - 2	understand the characteristics of polymers
CO - 3	Acquire knowledge about the polymerization techniques and polymer processing
CO – 4	know the chemistry of individual polymers
CO – 5	have an idea about the recent advances in polymer sciences



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III B.Sc. Chemistry / V Semester Gravimetric Estimation and inorganic preparation

Sub Code: AMCHP6

CO – 1	Discuss the principle of gravimetric estimation
CO - 2	Explain the procedure for the estimateonofions
CO - 3	Estimate the amount of medallion available in the given solution and
CO – 4	Compare the accuracy of the results with other methods
CO – 5	Illustrate the procedure for the preparation of various metal complexes

III B.Sc. Chemistry- Semester VI Inorganic Chemistry – III

Sub Code: AMCH61

CO – 1	Understand the nature of metal and ligands
CO - 2	Study the theories in coordination chemistry
CO - 3	Know the reaction mechanism of metal complexes
CO – 4	Explain the chemistry of metal carbonyls
CO – 5	Interpret the basic principles of photo inorganic chemistry

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III B.Sc. Chemistry / Semester VI Physical Chemistry-III

Sub Code: AMCH62

CO – 1	Learn about basic concepts in spectroscopy
CO - 2	Explain the principles and applications of NMR,ESR &Raman Spectroscopy
CO - 3	Classify the molecules in to various groups based on group theory
CO – 4	Understand the concept of kinetics of reaction
CO – 5	Learn about surface phenomena and solution characteristics

III B.Sc. Chemistry / Semester VI Organic Chemistry-IV

Sub Code: AMCH63

CO – 1	Analyse the structure and reactions of Carbohydrates
CO - 2	Understand the reaction mechanism and effect of substituents of phenols and aromatic acid
CO - 3	Discuss various types of rearrangements
CO – 4	Elaborate the structure of alkaloids and terpenoids
CO – 5	Apply Woodward Fieser rule to conjugated dienes & α , β unsaturated ketones and
	IR &NMR spectroscopy to compounds



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III B.Sc. Chemistry / Semester VI Elective- Nano chemistry

Sub Code: AECH62

CO – 1	Give an insight into the basics of nano chemistry
CO - 2	Understand the difference between bulk material and nanomaterial
CO - 3	Learn the synthesis, application and fabrication of nanostructure
CO – 4	Study the importance of nano catalyst, nanocomposites and fibers
CO – 5	Make the students familiar with the characterization and applications of nanomaterials

III B.Sc. Chemistry / VI Semesters Physical Chemistry Experiments

Sub Code: AMCHP7

CO – 1	Explain the principles of physical chemistry experiments
CO - 2	Determine the molecular weight and Critical Solution Temperature
CO - 3	Estimate the amount of substance by conductometric titrations
CO – 4	Estimate the amount of substance by potentiometric titrations
CO – 5	Compare the strengths of acids by studying the kinetics of ester hydrolysis



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III B.Sc. Chemistry / VI Semesters Project

Sub Code: AMCH6P

CO – 1	Identify research problem, carry out literature survey and use of different
	experimental/spectroscopic techniques
CO - 2	Develop interdisciplinary solutions to a variety of chemical problems
CO - 3	Communicate research findings efficiently in written(report)and verbal(viva-voce)
	forms
CO – 4	Use terminology appropriate to the field of study correctly and contextually
CO – 5	Motivate themselves and acquire basic knowledge for carrying out research work

I M.Sc. Chemistry / Semester - I

Aromaticity and Organic Reaction Mechanism

Sub Code: ZCHM 11

CO – 1	Analyze and predict the aromaticity of compounds and the
	nomenclature of bicyclic and tricyclic systems
CO - 2	Develop skills for identifying the kinetics of reactions
CO - 3	Demonstrate the generation, stability, and reactivity of carbenes, nitrenes and free
	radicals
CO – 4	Explain and analyze the mechanism of substitution, elimination and addition
	reactions in aliphatic systems
CO – 5	Infer the major types of nucleophilic substitution reaction son aromatics with their
	specific reactivity



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I M.Sc. Chemistry / Semester - I Fundamentals of Inorganic Chemistry, Nuclear Chemistry and Inorganic Polymers Sub Code: ZCHM12

CO – 1	Recall the basic concepts of atomic structure, periodic table, periodic properties
	and chemical bonding of elements
CO - 2	Explain poly acids, cage compounds and Inorganic polymers
CO - 3	Apply the concept of hybridization to identify the structure of molecules by VBT,
	MOT and VSEPR theory
CO – 4	Distinguish hard and soft acids and bases and explain their relative strengths
CO – 5	Explain various nuclear reactions and the analytical applications of radioisotopes

I M.Sc. Chemistry / Semester - I Quantum Mechanics and Spectroscopy – I

Sub Code: ZCHM13

CO – 1	Explain the mathematical and physical aspects of quantum mechanics which
	illustrates the relationship between mathematics and fundamental of quantum
	mechanics
CO - 2	Solve quantum mechanical problems
CO - 3	Analyze the quantum mechanical aspects in various areas of applications in
	chemistry
CO – 4	Explain the basic idea of quantization of energy and spectroscopy and apply to the
	rotational spectra of diatomic molecules
CO – 5	Explain the basic principles of vibrational spectra of diatomic molecules including
	both IR and Raman spectra


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I M.Sc. Chemistry / Semester - I Organic Chemistry Practical - I

Sub Code: ZCHL11

CO – 1	Acquire knowledge of paints and pigments and investigate its drying mechanism
CO - 2	Apply and formulate the role of cosmetics in industries
CO - 3	Identify the fibre for paper making and evaluate its properties
CO – 4	Apply processing operations of milk and milk products in day-to-day life
CO – 5	Explain types of textile fibres and analyze its characters by various Treatments

I M.Sc. Chemistry / Semester - I

Elective- Chemistry of Industrial Products and Formulation Sub Code: ZCHE12

CO – 1	Explain the basic separation procedures of organic mixtures
CO - 2	Select the separation methods to separate the organic mixtures
CO - 3	Classify the functional groups using systematic procedure
CO – 4	Determine the physical properties of organic compounds
CO – 5	Develop skills to isolate natural products from plants



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I M.Sc. Chemistry / Semester - I Inorganic Chemistry Practical - I

Sub Code: ZCHL12

CO 1	Pecall the procedure for the identification of more familiar medallions
0-1	Recail the procedure for the identification of more familiar medalitons
CO - 2	Study the procedure for the identification of less familiar cations
CO - 3	Explain the principles and techniques and have skills of qualitative analyst is of
	familiar and less familiar cations in a mixture
CO – 4	Classify the groups using systematic procedure
CO – 5	Analyze a metal ion in the presence of another medallion
	r r

I M.Sc. Chemistry / Semester - I Physical Chemistry Practical-I

Sub Code: ZCHL13

CO – 1	Explain the principles of conductometric titrations
CO - 2	Estimate the strength of solutions by acid-base and precipitation titration
CO - 3	Explain the basic principles of thermometry method
CO – 4	Determine the heat of solution as well as the amount of solute present in the
	solution
CO – 5	Determine the solubility product of sparingly soluble salts using conductometric
	technique



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I M.Sc. Chemistry / Semester - II

Stereochemistry, Organic Reagents and Photochemistry

Sub. Code: ZCHM21

CO – 1	Recognize three dimensional structures of anyorganic molecule with orientation of
	atomsor groups
CO - 2	Analyze the conformation and their activity of a cyclic and six-membered cyclic compounds
CO - 3	Develop the skill to choose the appropriate reagents for organic reactions
CO – 4	Illustrate the fundamental concepts of photochemistry and its application in
	organic reactions
CO – 5	Explain the core concepts of Pericy clicreactions and its mechanisms inorganic
	substrates and to predict whether the chemical reaction is thermal or
	photochemical

I M.Sc. Chemistry / Semester - II

Coordination Compounds and Solid-State Chemistry

Sub Code: ZCHM22

CO – 1	Recall the basic terms in coordination chemistry, Applications and limitations of
	CFT
CO - 2	Explain the stability and reactions of various coordination complexes
CO - 3	Compare the magnetic properties of Octahedral, Tetrahedral and Square planar
	coordination complexes
CO – 4	Classify the types of defects in solids and apply this knowledge to identify the type
	of defect present in compounds
CO – 5	Distinguish metals, semiconductors and insulators and explain the properties and
	applications of semiconductors



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I M.Sc. Chemistry / Semester - II Electrochemistry and Spectroscopy - II

Sub Code: ZCHM23

CO – 1	Explain the concept of electrochemistry and basic ideas of electro chemical processes
CO - 2	Analyze the applications of electro chemistry such as batteries and fuel cells
CO - 3	Illustrate the electro analytical techniques such as Polarography,
	Differential pulse polarography, Stripping voltammetry. Cyclic voltammetry, etc
CO – 4	Explain the basic principles of nuclear magnetic resonance (NMR) and Electron
	paramagnetic resonance(EPR) spectroscopy techniques
CO – 5	Illustrate the principles of nuclear quadrupole resonance and Mössbauer
	spectroscopy techniques and Mass spectrometry

I M.Sc. Chemistry / Semester – II

Elective- Nanoscience and Nanotechnology

Sub Code: ZCHE21

CO – 1	Explain the concept of electro chemistry and basic ideas of
	electro chemical processes
CO - 2	Trace the different methods of synthesis of nano materials
CO - 3	Acquire knowledge about polymer-based nano composites and applications of bio-
	nano composites
CO – 4	Evaluate the synthesis and potential applications of carbon nano tubes
	and graphene
CO – 5	Apply nano technology in bio-medical field



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I M.Sc. Chemistry / Semester - II Organic Chemistry Practical-II

Sub Code: ZCHL21

CO – 1	Develop the skills to estimate organic compounds
CO - 2	Estimate the amount of organic compound using quantitative organic estimation methods
CO - 3	Illustrate various organic reactions and theirutility inorganic preparations
CO – 4	Acquire the skills to isolate useful compounds from natural sources
CO – 5	Determine the physical properties of organic compounds

I M.Sc. Chemistry / Semester - II Inorganic Chemistry Practical-II

Subject Code: ZCHL22

CO – 1	Describe the principles, techniques and skills related to quantitative determination
	of ions in a mixture by complex metric titration
CO - 2	Estimate one metal ion in presence of another metal ion by complex metric method
CO - 3	Estimate the amounts of components present in Solder alloy
CO – 4	Prepare and analyze the Inorganic complexes and estimate them by volumetric
	methods
CO – 5	Describe the basic principle of calorimetry and apply it for the estimation of ions
	present in solution



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I M.Sc. Chemistry / Semester - II Physical Chemistry Practical-II

Sub Code: ZCHL23

CO – 1	Explain the basic principles of conduct metric titrations
CO - 2	Determine the Dissociation constant of weak acids
CO - 3	Illustrate the principles of distribution law
CO – 4	Estimate the distribution of solute in two immiscible solvents
CO – 5	Outline the basic principles of thermometry and determine the solution enthalpy of
	solute insolvent

II M.Sc. Chemistry / Semester - III

Organic Spectroscopy and Rearrangements

Subt Code: ZCHM31

CO – 1	Describe the basic principles of UV, IR, ORD and CD, and the applications of UV-
	Visible spectroscopy, IR spectroscopy, ORD
CO - 2	Interpret the1HNMR and 13CNMR spectral data to elucidate the structure of organic compounds
CO - 3	Explain the fragmentation pattern in Mass spectrometry and use them instructural elucidation
CO – 4	Interpret the 2DNMR spectrum and solve structure related Problems
CO – 5	Illustrate the types and mechanisms of the prescribed rearrangement reactions and their applications in Organic synthesis



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II M.Sc. Chemistry / Semester - III

Spectral Methods-I, Organo Metallic and Analytical Methods

Sub Code: ZCHM32

CO – 1	Describe the principles and applications of electronic and photo electronic spectroscopic techniques in coordination compounds and determine absolute configuration of chelate complexes by applying ORD and CD.
CO - 2	Recall the EAN rule and explain the 18 & 16 electron rules to determine the stability of complexes
CO - 3	Classify terminal and bridging carbony l groups in metal carbonyls using IR spectra
CO – 4	Categorize the different types of organometallic catalysts and explain their applications
CO – 5	Describe the principles and applications of thermo analytical techniques and determine the stability of complexes

II M.Sc. Chemistry / Semester - III

Group Theory and Chemical Thermodynamics

Sub Code: ZCHM33

Explain the basic concepts of group theory and construct character tables for
various point groups
Analyze the symmetry of molecules and apply the group theory into spectroscopy and hybridizations
Illustrate the relationship between group theory and quantum mechanics
Summarize the concepts of statistical thermodynamics and the inter linking between the quantum mechanics and thermodynamics
Explain their reversible thermodynamic processes and apply to biological and non- linear systems



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II M.Sc. Chemistry / Semester - III Scientific - Research Methodology

Sub Code: ZCHM34

CO – 1	Describe the principles and applications of electronic and photo electronic
	spectroscopic techniques in coordination compounds. Select research problem and
	various funding agencies
CO - 2	Write the research report and make effective presentations
CO - 3	Apply software for identifying plagiarism
CO – 4	Describe the forms of IPR and its significance
CO – 5	Describe the surface probe microscopic techniques to analyze the sample surfaces

II M.Sc. Chemistry / Semester - III Organic Chemistry Practical-III

Sub Code: ZCHL31

CO – 1	Estimate the amount of organic compounds using quantitative organic estimation
	methods
CO^{2}	Develop the skills to headle compains and toxic showingle increase is measured one
0-2	Develop the skills to handle corrosive and toxic chemicals inorganic preparations
CO - 3	Categorize organic reactions and their mechanisms relevant to organic
	preparations
CO – 4	Carryout micro scale organic preparations
CO – 5	Determine the physical properties of organic compounds



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II M.Sc. Chemistry / Semester - III Inorganic Chemistry Practical-III

Sub Code: ZCHL32

CO – 1	Identify the methodology to separate and estimate mixture of metal ions
	quantitatively
CO - 2	Describe the concept of volumetric and Gravimetric analysis
CO - 3	Explain the principles for volumetric and gravimetric methods of estimation of
	cations present in a mixture
CO – 4	Separate and estimate mixture of metalions quantitatively
CO – 5	Analyze and estimate the contents of Ores and Alloys

II M.Sc. Chemistry / Semester - III Physical Chemistry Practical-III

Sub Code: ZCHL33

CO – 1	Explain the principles of potentio metrictitrations and apply for various reactions
	such asneutralization, redox and precipitation reactions
CO - 2	Determine the Dissociation constant of weak acids and pH of buffer
CO - 3	Determine the solubility product of sparingly soluble salts potentio metrically
CO – 4	Describe the principles of chemical kinetics and study the kinetics of a system
CO – 5	Illustrate the principles of adsorption process and carry out experiments to find out
	whether a particular adsorption process is Freund lichor Langmuir Adsorption
	isotherm



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II M.Sc. Chemistry / Semester - IV

Synthetic Strategies in Organic Chemistry

Sub Code: ZCHM41

CO – 1	Illustrate the prescribed organic name reactions with their mechanisms and apply
	in organic synthesis
CO - 2	Design organic synthetic step semploying disconnection approach in the synthes is
	of drugs, natural products etc
CO - 3	Identify suitable reagent for important organic reactions and building appropriate
	bonds
CO – 4	Explain the structural elucidation of cholesterol and various synthetic approaches
	of steroids in Natural Products synthesis.
CO – 5	Infer the structural elucidation and the synthesis of vitamins and terpenoids

II M.Sc. Chemistry / Semester - IV

Bioinorganic, Spectral Methods-II and Photochemistry

Sub Code: ZCHM42

CO – 1	Describe the role of metalloporphyrin's and metalloenzymes in various biological
	processes
CO - 2	Apply metal complexes as drugs and probes of nucleic acids
CO - 3	Explain the applications of Mossbauer, NMR and EPR Spectroscopy in inorganic
	compounds and interpret the data
CO – 4	Explain the photo physical and photo chemical properties of metal Complexes
CO – 5	Develop photo chemical conversion, storage of solar energy and green photo
	catalyst



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II M.Sc. Chemistry / Semester - IV

Chemical Kinetics, Photochemistry and Surface Chemistry

Sub Code: PCHM43

CO – 1	Explain kinetic theory of gases and phase rule and its applications
CO - 2	Describe the concepts of chemical kinetics and make use of it in understand in reaction mechanisms
CO - 3	Illustrate various photochemical processes and experimental techniques in photochemistry
CO – 4	Explain the basic ideas of radiation chemistry and its applications
CO – 5	Describe the concepts of Adsorption processes and catalysis

II M.Sc. Chemistry / Semester - IV Selected Topics in Chemistry

Sub Code: ZCHM44

CO – 1	Describe the importance and applications of Computational Chemistry methods
CO - 2	Be competent in separation and purification techniques
CO - 3	Explain the corrosion monitoring methods and application of corrosion inhibitors
CO – 4	Develop various types of sensors
CO – 5	Choose contrasting agents in medical diagnosis



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II M.Sc. Chemistry / Semester - IV Computational Software in Chemistry

Sub Code: ZCHL41

CO – 1	Use chemical software for drawing chemical structures, reaction schemes and
	generation of their names
CO - 2	Perform molecular docking instructural molecular biology and computer assisted drug design which enhance their employ ability in academia and industry
	drug design which enhance then employ ability in academia and industry
CO - 3	Calculate the single point energy, energy gap, dipolemoment, resonance energy,
	equilibrium constant, electrophili city index, dimerisation energy etc
CO – 4	Interpret spectral data (UV, IR, NMR spectrum)
CO – 5	Investigate intermolecular interactions and packing in crystalline materials using
	Hirschfield surface analysis

II M.Sc. Chemistry / Semester - IV Project

Sub Code: ZCHP41

CO – 1	Identify research problem, carry out literature survey and use of different
	experimental/spectroscopic techniques
CO - 2	Develop inter disciplinary solutions to a variety of chemical problems
CO - 3	Communicate research findings efficiently in written (report) and verbal(viva-
	voce) forms
CO – 4	Use terminology appropriate to the field of study correctly and contextually
CO – 5	Motivate themselves and acquire basic knowledge for carrying out research work



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PG & RESEARCH DEPARTMENT OF MATHEMATICS

B.Sc.	Mathema	itics / Se	emester –	I / Cor	•e – 1

Calculus & Classical Algebra

Sub. Code: CMMA11

CO – 1	Apply the mathematical knowledge to analyze the properties of a curve such as
	curvature, radius of curvature, Involute and Evolute
CO - 2	Classify double and triple integrals
CO - 3	Identify Beta and gamma function and to apply the rules of beta and gamma
	function in evaluating double and triple integrals
CO – 4	Construct different types of equations and to find the roots of the equations by
	Newton's Theorem
CO – 5	Solve the different types of reciprocal equations and to find the number of real
	roots using Descartes rule of signs

B.Sc. / Semester – I &III / Allied I

Statistics I

Sub. Code: CAST11/SAST11

CO – 1	Find and relate the concepts of moments, skewness and kurtosis and to
	demonstrate the method of least squares and to classify parabolic, exponential and
	logarithmic curves
CO - 2	Interpret correlation and regression and to illustrate Karl's Pearson's coefficient of
	correlation and also the lines of regression and coefficient of regression
CO - 3	Develop the statistical techniques used in the theory of attributes and to analyze
	consistency of data and criteria independence and to interpret Yule's coefficient of
CO – 4	Explain distribution function and its properties, able to find mathematical
	expectation and to find the cumulants using generating function
$\overline{CO-5}$	Distinguish discrete and continuous probability distributions and to construct
	binomial, Poisson distribution



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B.Sc. / Semester – I&III / Allied I

Algebra & Differential Equations

Sub. Code: CAMA11/SAMA11

CO – 1	Construct different types of equations and to compare and to find the relationships
	between roots and coefficients
CO - 2	Identify the transformation of equations and to find approximate solutions to
	equations by making use of Newton's Method and Korner's Method
CO - 3	Identify types of matrices and to find the characteristic equation of matrix. Eigen
	values and eigen vectors can be determined by applying Cayley Hamilton Theorem
CO – 4	Distinguish the differential equations of first order and higher degrees and to
	identify the equations which are all solvable for p, x, y and the equations in the
	standard form Pp+Qq=R
CO – 5	Identify and distinguish Laplace transformation and inverse Laplace
	transformation

B.Sc. Mathematics / Semester – II / Core - 2

Differential Equations & Analytical geometry of 3D

Sub. Code: CMMA21

CO – 1	Solve the differential equations which are all solvable for x, y, p and Clairaut's
	form. Also, to illustrate the method of solving the differential equations of the form
	$f_1(D) x + g_1(D)y = h_1 t, f_2(D) x + g_2(D)y = h_2(t)$
CO - 2	Identify and solve the second order linear differential equation with constant
	coefficients and to interpret the line are quations of second order with variable
	coefficients
CO - 3	Analyze the 3D-co-ordinate systems and how to find the direction cosines and
	direction ratios. Also to find the angle between planes, the length of the
	perpendicular and angle of bisection
CO – 4	Find and classify the equation of lines in different forms and calculate the image of
	the point, image of a line and to distinguish lines and planes. The angle between
	the line and plane can be determined. coplanar lines can be shown and the shortest
	distance between
CO – 5	The equations of spheres and circles of intersection can be interpreted and to
	illustrate and analyze the tangency of sphere



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B.Sc. / Semester – I&III / Allied II		
Statisti	cs II Sub.Code: CAST31/SAST31	
CO-1	To list out the characteristics of index numbers and to find Laspever's and	
	Paache's, Fisher and Bowley's Edge worth's index numbers. The method to	
	classify and analyse the unit test, commodity reversal test, time reversal test and	
	circular tests can be shown	
CO - 2	Construct testing of hypothesis and to distinguish null hypothesis and alternative	
	hypothesis. Type I and Type II errors can be classified. The level of significance	
	and test of significance for large samples can be explained	
CO - 3	Construct testing of hypothesis and to distinguish null hypothesis and alternative	
	hypothesis. Type I and Type II errors can be classified. The level of significance	
	and test of significance for large samples can be explained	
CO – 4	Construct testing of hypothesis and to distinguish null hypothesis and alternative	
	hypothesis. Type I and Type II errors can be classified. The level of significance	
	and test of significance for large samples can be explained	
CO – 5	Identify the distributions suchast-distributions and F-distribution. By making use	
	oft-test the single mean and difference of means can be found out.	
	Varianceratiotest based on Chi-Square distribution by making use of this the	
	goodness of fit can be decided	

B.Sc. / Semester – II&IV / Allied II

Vector Calculus & Fourier Series

Sub. Code: AAMA21/SAMA21

CO – 1	Analyze what is meant by vector differentiation and how to apply vector
	differentiation and its properties
CO - 2	Evaluate the double and triple integrals
CO - 3	Analyze and apply vector integration. By making use of Vector integration line,
	surface and volume integrals can be interpreted
CO – 4	Analyze and apply Green's, Stokes and divergence theorems
CO – 5	Determine the functions whether the functions are odd or even. By making use of
	these concepts half range series can be found out.



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B.Sc. Mathematics / Semester – III / Core 5

Sequence and Series

Sub.Code: AMMA31

CO – 1	Analyse the real number system and also to classify rational and irrational
	numbers. To find the upper bounds, least upper bound sand maximum element and
	to elaborate triangle in equality and Cauchy-Schwartz Inequality
CO - 2	Categorize the sequences as bounded sequences, monotonic sequences, convergent
	sequences and divergent sequences. Also to find the algebra of limits
CO - 3	Demonstrate the behaviour of monotonic sequences and to apply Cauchy's first
	limit theorem, Make use of Cauchy's Second limit theorem and Cesaro's Theorem.
	Construct subsequence and to explain Cauchy's general principle of convergence
CO – 4	Interpret the series and to apply n th term test, Comparison test, Kummer's test, D'
	Alembert's ratio test, Raabe'stest, Guass test and root test to compile the nature
	of the series
CO – 5	Analyse the alternating series. Apply the test for convergence for series of
	arbitrary terms. Also to identify the power series and to determine the radius of
	convergence

B.Sc. Mathematics / Semester – III/ Skill Based core

Vector Calculus

Sub. Code: ASSM3A

CO - 1	Classify the vector point function and scalar point function. Determine the
	classify the vector point function and search point function. Determine the
	derivative of a vector and derivative of product of scalar and vector function
	Ĩ
CO - 2	Find divergence, curl. Make use of the Laplacian operator
CO - 3	Interpret the integration of point function and to illustrate line integral. To solve
	surface integral
<u> </u>	
CO-4	Analyze and solve the volume integral. Also to illustrate and
	make use of Guass Divergence Theorem to solve problems
	make use of Guass Divergence Theorem to solve problems
<u> </u>	
CO-5	To solve problems based on Green's theorem and Stoke's Theorem



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Semester – III / Non-Major Elective Fundamentals of Statistics I

Sub.Code: ANMA3B

CO – 1	Analyse the classification of data's. Also to construct bar diagram and Pie chart
CO - 2	Illustrate measure of central tendency and to find mean, median and mode
CO - 3	Explain the measure of dispersion. Also to find standard deviation, variance, quartile deviation and to obtain the relationship between them
CO – 4	Interpret correlation and to solve rank correlation problems
CO – 5	To find solution for regression equations

B.Sc. Mathematics / Semester – IV/ Core 6 Abstract Algebra

Sub.Code: AMMA41

CO – 1	Explain the definitions of groups and its examples. Also to determine the order of
	an element. Illustrate about Sub groups
CO - 2	Interpret cyclic groups and to find the generator of cyclic subgroups. Illustrate and
	apply Lagrange's Theorem, Euler's Theorem and Fermat's Theorem
CO - 3	Elaborate about Normal Sub groups and group homomorphism. Illustrate
	Isomorphism, Automorphism. Also to apply Cayley's theorem wherever required.
CO – 4	Compare and classify Rings and its types. Illustrate about Integral domain and
	Fields. To summarize about maximal and minimal ideals
CO – 5	Utilize the concept of homomorphism and isomorphism on rings . Also to find
	kernel of homomorphism and to make use of fundamental theorem



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B.Sc. Mathematics / Semester – IV/ Allied II

Statistics II

Sub.Code: AAST21

CO – 1	To list out the characteristics of index numbers and to find Laspeyer's and
	Paache's, Fisher and Bowley's Edgeworth's index numbers. The method to
	classify and analyse the unit test, commodity reversal test, commodity reversal
	test, time reversal test and circular tests can be shown.
CO - 2	Construct testing of hypothesis and to distinguish null hypothesis and alternative
	hypothesis. Type I and Type II errors can be classified. The level of significance
	and test of significance for large samples can be explained.
CO - 3	Identify the distributions such as t-distributions and F-distribution. By making use
	of t-test the single mean and difference of means can be found out. Variance ration
	test based on chi-Square distribution by making use of this the goodness of fit can
	be decided.
CO – 4	To find analysis of variance. One way and two way classified data can be
	explained and to randomize block design. Latin squares can be analysed and
	constructed.
CO – 5	To explain statistical quality control and its advantages. Process control can be
	illustrated by making use of this control chart, range chart, P-chart can be
	designed.

Semester – IV / Non-Major Elective Fundamental of Statistics II

Sub.Code: ANMA4B

CO – 1	Explain the theory of Attributes
CO - 2	Illustrate about index numbers and to determine the weighted index numbers
CO - 3	Analyse and predict consumer price index numbers
CO – 4	Evaluate Time series
CO – 5	Apply curve fitting for straight line, parabola and exponential curve



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B.Sc. Mathematics / Semester – IV / Skill Based Core Trigonometry, Laplace transform and Fourier series

Sub.Code: ASMA4A

CO – 1	Summarize about Trigonometry and to illustrate about the expansion of sinnx,
	cosnx, Sin ⁿ x, Cos ⁿ x
CO - 2	Obtain the relationship between hyperbolic functions and circular function.
	Explain about inverse hyperbolic functions. To find summation of the series using
	C+iS method.
CO - 3	Illustratel a place transform
CO – 4	Solve differential equations with constant coefficients by making use of Laplace
	Transforms
CO – 5	Solve problems based on Fourier series. Identify the odd and even functions and to
	deduce half range series.

B.Sc. Mathematics / Semester – V/ Core - 7

Linear Algebra

Sub.Code: SMMA51

CO – 1	Explain the definitions and general properties of vector spaces. Also to explain
	subspace. They know where to apply fundamental theorem of homomorphism
CO - 2	Determine the span of a set and to check whether the given set is Linearly
	dependent or not. Also to find basis and dimensions
CO - 3	Illustrate and apply Rank Nullity theorem. Explain the definitions and
	examples of inner product space. Apply Gram Schmidt Orthogonalization process
CO – 4	Construct matrices and also to summarize the elementary
	transformations. Determine the Inverse of matrix and rank of a matrix. To make
	use of Cayley Hamilton Theorem
CO – 5	Determine Eigen Values and Eigen Vectors. Identify bilinear forms and
	quadratic forms. Also To deduce Diagonal form from Quadratic form



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B.Sc. Mathematics / Semester – V/ Core - 8

Real Analysis II

Sub.Code: SMMA52

CO – 1	Explain about Metric spaces and to construct anopenball. Also to
	interpret interior
CO - 2	. Interpret about closed set sand to find closure. To determine limit points. Analyze
	about complete metric space. Discuss about Cantor's intersection theorem and
	Baire's Category theorem
CO - 3	Summarize continuity. Illustrate about uniform continuity
CO – 4	Explain about connectedness and to deduce the connected subsets of R. To obtain
	the relationship between connectedness and Continuity
CO – 5	Illustrate about compactness and to find the connected subsets of R. Illustrate and
	make use of Heine Borel Theorem .To determine the relationship between
	compactness and continuity

B.Sc. Mathematics / Semester – V/ Core 9

Statics

Sub.Code: SMMA53

CO – 1	Explain the forces acting at a point and to apply the parallelogram law of forces,
	Triangle law of forces and Lami's theorem
CO - 2	Interpret parallel forces and moments. Analyse the resultant of two
	parallel forces and there sultantoftwoun like unequal parallel forces. To apply
	Varigon's theorem
CO - 3	Summarize equilibrium of three forces acting on a rigid body and to illustrate three
	coplanar forces theorem and to make use of the above theorem to solve problems
CO – 4	Explain about laws of friction. Also to determine the angle of friction and
	Illustrate about the equilibrium of a particle and to make use of the concepts to
	solve the problems
CO – 5	Interpret the equilibrium of strings. To deduce the equation of catenary and its
	geometrical properties



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B.Sc. Mathematics / Semester – V/ Core 10 Integral Transforms and Z Transforms

Sub.Code: SMMA54

CO – 1	Apply Fourier transforms and to explain the properties
CO - 2	Solve problems on infinite Fourier cosine and Sine Transforms
CO - 3	Identify and solve Finite Fourier transforms
CO – 4	Illustrate Z transforms and its properties
CO – 5	Utilize inverse Z transforms to solve difference equations

B.Sc. Mathematics / Semester – V/ Major Elective - I Combinatorial Mathematics

Sub.Code: SMMA5C

CO – 1	Explain Selections and to find binomial coefficients. Classify ordered selections
	and unordered selections
CO - 2	Solve pairing problems
CO - 3	Explain recurrence and classify the types of relations using generating functions
CO – 4	Illustrate the inclusion and exclusion principles
CO – 5	Construct and solve block designs and square block designs



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B.Sc. Mathematics / Semester – V/ Major Elective - II

Operations Research - I

Sub. Code: SMMA5D

CO – 1	Solve Linear Programming Problem by making use of Graphical method, Simplex
	method
CO - 2	Interpret the concept of duality. Classify primal and dual problems. Utilizing the concept of duality, solve problems on dual simplex method
CO - 3	Solve Transportation problems by making use of North-west cornerrule, Matrix-
	Minima method, Vogel's Approximation rule. Evaluate Degeneracy and
	unbalanced transportation problems
CO – 4	Determine the solution for Assignment problems
CO – 5	Solve sequencing problems

B.Sc. Mathematics / Semester – VI/ Core 11

Complex Analysis

Sub. Code: SMMA61

CO – 1	Explain analytic functions and determine the functions of a complex variables and
	to utilize Cauchy Riemann equations
CO - 2	Elaborate Bilinear Transformations and classify the elementary transformations.
	Also to find fixed points
CO - 3	Illustrate complex integrations and to make use of Cauchy's Integral Formula
CO – 4	Explain Series Expansions and to determine Taylor' Series, Laurent's Series.
	Determine zeros of an analytic function
CO – 5	Determine residues and to make use of Cauchy's Residue Theorem. Also to
	evaluate definite integrals



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B.Sc. Mathematics / Semester – VI/ Core 12

Number Theory

Sub. Code: SMMA62

CO – 1	Explain Peano's theorem and to utilize mathematical induction. Also to make
	use of binomial theorem
CO - 2	Illustrate Division Algorithm. Determine GCD. To deduce the Diaphantine equation x+by=c
CO - 3	Intrepret the fundamental theorem of arithmetic. Explain The Sieve of
	Eratosthenes and to use Gold bach Conjecture
CO – 4	Summarize the basic properties of congruences and to apply Chinese Remainder
	Theorem
CO – 5	Elaborate Fermat's Theorem, Wilson's Theorem and to apply Kraitchik
	Factorization Method

B.Sc. Mathematics / Semester – VI/ Core 13

Graph Theory

Sub.Code: SMMA63

CO – 1	Construct graph and to explain its definition. Determine degrees. Also
	to perform operations on graph
CO - 2	Classify degree sequence and graphic sequence. Illustrate connectedness,
	compactness and connectivity
CO - 3	Construct Eulerian Graphs and Hamiltonian graphs. Elaborate the
	characterizations of trees and to find centre of a tree
CO – 4	Interpret Planar graphs and to determine chromatic numbers and chromatic index
CO – 5	Explain Chromatic Polynomials and the properties of digraphs



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B.Sc. Mathematics / Semester – VI/ Core 14 Dynamics

Sub. Code: SMMA64

CO – 1	Illustrate projectiles and to find the equation of path, rangeand maximum height
	and time of flight
CO - 2	Elaborate about the collision of elastic bodies. Interpret law of impact and classify direct and oblique impact
CO - 3	Determine simple harmonic motion in a straightline. Summarize the composition
	of SHM of the same period in the same line and along two perpendicular directions
CO – 4	Interpret motion under the action of central forces. Derivevelo city and
	acceleration in polar coordinates
CO – 5	Obtain the differential equation of central orbit. Also to deduce the pedal equation
	of central orbit

B.Sc. Mathematics / Semester – VI/ Core 15

Numerical Methods

Sub. Code: SMMA65

CO – 1	Obtain solution for numerical algebraic and Transcendental equations by making
	use of various methods
CO - 2	Find finite difference for first and higher order differences. To classify forward and
	backward differences
CO - 3	To apply interpolation formula in Newton's Forward and backward, Guass
	Forward and backward formula
CO – 4	Make use of numerical differentiation and integration in Newton's forward &
	backward differences for differentiation. Also to utilize Trapezoidal rule and
	Simpson's 1/3 and 3/8rule
CO – 5	Solve Difference equations and to determine the order and degree of difference
	equation. Solve linear difference equation and find complementary function and to
	deduce particular Integral of the function



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B.Sc. Mathematics / Semester – VI/ Major Elective - III

Fuzzy Mathematics

Sub. Code: SMMA6B

CO – 1	Explain Crisp sets and fuzzy sets and illustrate the characteristics and significance
	of Paradigm Shift
CO - 2	Elaborate the Additional properties of α cuts and the extension principle for fuzzy
	sets
CO - 3	Perform fuzzy set operations. Also to determine fuzzy complements, fuzzy
	intersections and fuzzy unions
CO – 4	Determine fuzzy numbers and Linguistic variables. Apply arithmetic operations on
	intervals and on fuzzy numbers. Construct lattice of fuzzy numbers
CO – 5	Analyze and classify fuzzy decision making, individual decision making,
	Multiperson decision making problems

B.Sc. Mathematics / Semester – VI/ Major Elective - IV

Operations Research – II

Sub. Code: SMMA6D

CO – 1	Interpret the games and strategies. Solve two persons zero sum games. Make use of
	mixed strategies and dominance property
CO - 2	Analyze the replacement of items that deteriorate with time. Illustrate replace montage of a machine taking money value into consideration and elaborate there placement of items that completely fail suddenly and Staffing problems
CO - 3	Explain the queueing models and to classify into (M/M/1:FCFS),(M/M/1:
	∞ /FCFS), (M/M/S:/FCFS)
CO – 4	Compose network scheduling using PERT/CPM. Explain the rules of network
	construction. Make use of PERT calculation
CO – 5	Analyse and solve inventory control problems



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M.Sc. Mathematics/Semester-I/CourseNo.1/Core-1 Title of the Course: ALGEBRA-I

CO – 1	Demonstrate competence with the basic ideas of algebra including the concepts of counting principle and Homeomorphisms
CO - 2	Understand the concept of Cayley's theorem and about Solvable group
CO - 3	Able to demonstrate about the permutations and Accounting principle
CO – 4	Appreciate the significance of Sylow's theorem and Galois theory
CO – 5	Acquire the knowledge of direct products, finitely generatedabelian groups

M.Sc. Mathematics/Semester-I/Core-2 Title of the Course : ANALYSIS-I

CO – 1	Understand the need of metric spaces, compact sets and connected sets.
CO - 2	Able to recognize the convergence of sequence of functions.
CO - 3	Analyze the root test, ratio test, power series, absolute convergence and
	algebra of series.
CO – 4	Interpret knowledge about the concept of limits and continuity of
	functions.
CO – 5	Able to know another equally important marinade as namely differentiation
	and make use of the study of velocity and acceleration of continuous paths.



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M.Sc. Mathematics/Semester-I/Core-3 Title of the Course: ANALYTIC NUMBER THEORY

CO – 1	Study the basic concepts of elementary number theory
CO - 2	Explain several arithmetical functions and construct their relationships
CO - 3	Apply algebraic structure in arithmetical functions
CO – 4	Demonstrate various identities satisfied by arithmetical functions
CO – 5	Determine the application $o\mu(n)\&\Lambda(n)$ and several equivalent form of
	prime number theorem

M.Sc. (Mathematics)/Semester-I/Core-4 Title of the Course: OPERATIONS RESEARCH

CO – 1	Be able to build and solve Transportation and Assignment problems using
	appropriate method
CO - 2	Learn the constructions of network and optimal scheduling using CPM and
	PERT
CO - 3	Ability to construct linear integer programming models and solve linear
	integer programming models using branch and bound method
CO – 4	Understand the need of inventory management.
CO – 5	To understand basic characteristic features of a queuing system and
	acquire skills in analyzing queuing models

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Thoothukudi- 628 002, Tamil Nadu.

M.Sc. Mathematics /Semester-1/Core-5	
Title of the Course : ORDINARY DIFFERENTIAL EQUATIONS	
CO – 1	Develop ways of finding explicit solutions of second order linear equations
	and understand the nature and properties.
CO - 2	Recall an algebraic function and create attention to the general
	homogeneous second order linear equation.
CO - 3	Confront the theoretical side of the problem, adapt to the technical task of
	defining the Legendre polynomial and build their special properties.
CO – 4	Make use of many important applications of Legend repolynomials to
	mathematical physics. Define the more important Bessel functions and
	prove some of their simpler properties.
CO – 5	Specialize the linear system

M.Sc. Mathematics/SEMESTER-II/Core-6 Title of the Course : ALGEBRA-II

CO – 1	Demonstrate competence with the basic ideas of algebra including the
	concepts of ideals and quotient Rings.
CO - 2	Understand the concept of the Particular Euclidean ring.
CO - 3	Able to demonstrate about the Polynomial rings over Commutative
	rings.
CO – 4	Appreciate the significance Radicals
CO – 5	Acquired the knowledge of direct sum of rings



Thoothukudi- 628 002, Tamil Nadu.

M.Sc. Mathematics/SEMESTER-II/Core-7 Title of the Course : ANALYSIS-II

CO – 1	Construct the integration of real valued functions on intervals.
CO - 2	Explain the integration of vector valued functions and make use of geometric
	interest with application.
CO - 3	Explain a new mode of convergence, point wise convergence with integration,
	equicontinuous function and point wise bounded sequence.
CO – 4	Developing properties of polynomials and deriving properties of function
	represented by power series.
CO – 5	Explain the algebraic completeness of the complex field, its generalization and its
	conclusion.

M.Sc. (Mathematics)/SEMESTER-II/Core-8 Title of the Course : ADVANCED CALCULUS

CO – 1	Understand the difference between a multiple integral and an iterated integrals
	and move from one to the other
CO - 2	Organise with functions whose range of values will be point sin m space, for
	some specific choice of m such as 2 or 3.
CO - 3	Use linear and affine transformation as local approximations to a general
	transformation.
CO – 4	Deviate from the older traditional approach and adopt one which is of greater
	significance of applications in analysis.
CO – 5	Show how to translate between the language and notation of the system of
	differential forms and that of vector analysis.



Thoothukudi- 628 002, Tamil Nadu.

M.Sc. Mathematics/SEMESTER–II / Core-9 Title of the Course : DIFFERENTIAL GEOMETRY

CO – 1	Interpret the geometric character of curves in Space (\mathbf{R}^3)
CO - 2	Explain then th order of acurve and a surface, Develop the plane of curvature at a
	point of the surface
CO - 3	Build the concept of a surface and fundamental forms
CO – 4	Explain the intrinsic and non intrinsic properties of a surface
CO – 5	Analyse the properties of a surface relative to the Euclidean space in which it is
	embedded

M.Sc. (Mathematics)/SEMESTER-II/Core-10 Title of the Course : RESEARCH METHODOLOGY AND STATISTICS

CO – 1	Discuss the information of the sections in a dissertation or thesis
CO - 2	Discuss the distributions of two random variables, conditional Distributions and
	expectations, independent random variables and its generalizations
CO - 3	Build the Gamma and Chi-Square Distributions and Normal Distributions
CO – 4	Classify the distributions of Functions of Random Variables and define three
	additional distributions of statistical inference
CO – 5	Build an alternative procedure a round the concept of the moment generating-
	function of a distribution and establish the central limit theorem



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M.Sc. (Mathematics)/SEMESTER-II/ Elective-1.2 Title of the Course : PARTIAL DIFFERENTIALE QUATIONS

CO – 1	Find the fundamental difference between an differential equations in two
	variables and those in a higher number of variables.
CO - 2	Find the general solution of a linear partial differential equation and indicate
	how such a general solution may be used to determine the integral surface
	which passes through a given curve.
CO - 3	Able to solve then on linear partial differential equation.
CO – 4	Able to solve linear partial differential equation soft he second order.
CO – 5	Able to extend the characteristic curves of a second-order linear differential
	equation in two independent variables to the case where there are n independent
	variables.

M.Sc. Mathematics/SEMESTER-III/Core-11 Title of the Course : ADVANCED ALGEBRA-I

CO – 1	Construct the process to develop the fundamental notations of linear
	dependence, basis and dimensions.
CO - 2	Develop the concepts about linear transformation and matrix theory
CO - 3	Discover the existence of linear transformation in similarities
CO – 4	Identify the theorems about linear transformations, canonical form of matrices
	and fundamental properties of matrices
CO – 5	Classify the behavior of Hermitian, Unitary and Normal transformations.

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M.Sc.Mathematics/SEMESTER-III/Core-12 Title of the Course : GRAPH THEORY

CO – 1	Demonstrate the concept of different structures and types about graphs and
	explain its applications
CO - 2	Determine the properties of trees and applications in network and study the
	concepts of connections in graphs
CO - 3	Acquire the knowledge about Euler Tours, Hamilton Cycles and matchings in
	Graphs
CO – 4	Analyze the concept to fedge coloring, independent sets and cliques in Graphs
CO – 5	Explain the concept of vertex colorings

M.Sc. Mathematics/SEMESTER-III/ Core-13

Title of the Course

: MEASURE AND INTEGRATION

CO – 1	Establish the basics for Lebesgue measurable functions and the Lebesgue
	integral. characterize on inner approximation by closed sets and on outer
	approximation by open sets.
CO - 2	Establish results regarding the approximation of measurable functions by
	simple functions and by continuous functions.
CO - 3	Exhibit a uniform bounded sequence of Riemann integrable functions on a closed,
	bounded interval can converge point wise to a function that is not Riemann
	integrable.
CO – 4	Provide a characterization of the class of functions on closed, bounded intervals
	that may be expressed as the difference of increasing functions.
CO – 5	Abstract the most important properties of Lebesgue measure on the real line in
	the absence of any Topology.



Thoothukudi- 628 002, Tamil Nadu.

M.Sc. Mathematics/SEMESTER-III/Core-14 Title of the Course : TOPOLOGY–I

CO – 1	Demonstrate an understanding of the concepts of topological spaces, construct
	topologies on a set. Understand the natural generalization of open and closed
	sets, limit points for the real line and Euclide an space on to the Topological
	Spaces.
CO - 2	Extend the concept of continuity and various properties of continuous functions;
	and define a topology on the Cartesian products of topological spaces.
CO - 3	Define the metric topology using a metric on the set, give examples for metric
	topology and prove the properties of any metric topology.
CO – 4	Acquire knowledge of the concepts of separation, connectedness, covering and
	open covering of a topological space and compactness for a topological space.
CO – 5	Appreciate the importance of a weaker form of compactness called Limit point
	compactness, local compactness and one-point compactification and identify
	spaces where Limit point compactness coincides with compactness.

M.Sc. Mathematics)/SEMESTER-III/ Elective-2.1 Title of the Course : ALGEBRAIC NUMBER THEORY

CO – 1	Demonstrate competence with the basic ideas of Diophantine and other linear
	equations.
CO - 2	Solve some special equations of the type $x^4 + y^4 = z^2$
CO - 3	Able to demonstrate about infinite continued functions
CO – 4	Appreciate the significance of approximating irrational numbers
CO – 5	Acquired the knowledge of Unique factorizations



Thoothukudi- 628 002, Tamil Nadu.

M.Sc. Mathematics/SEMESTER-III/Elective-2.2 Title of the Course: CALCULUS OF VARIATIONS AND INTEGRAL EQUATIONS

CO – 1	Demonstrate competence with the basicide as Maxima and Minima
CO - 2	Explain about Constraints and Lagrange's Multipliers Hamilton's
	principles-Lagrange equations
CO - 3	Demonstrate Relation between differential and integral equations
CO – 4	Appreciate the significance of Fredholm equations with separable kernels
CO – 5	Acquired the knowledge of Iterative methods for solving equations of
	second kind

M.Sc. Mathematics /Semester-III/Elective-2.3 Title of the Course: PYTHON PROGRAMMING – PRACTICALS

CO – 1	Write programs using advanced concepts of Python.
CO - 2	Write, Test and Debug Python Programs.
CO - 3	Implement Conditionals and Loops for Python Programs.
CO – 4	Use functions and represent Compound data using Lists, Tuples and Dictionaries.
CO – 5	Read, write and manipulate data from & to files in Python.



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M.Sc. Mathematics/SEMESTER-IV/Core-15 Title of the Course: ADVANCED ALGEBRA-II

<u></u>	
CO – 1	Build the knowledge with the relation of one field to another
CO - 2	Develop the construction of an extension field K of F in which the polynomial
	$f(x) \in F[x]$ have all its roots and study the nature of roots of $f(x)$
CO - 3	Study the relationship between the roots of a polynomial with its Galois Group
	and examine it
CO – 4	Determine the nature of fields having only a finite number of elements
CO – 5	Understand the classification of all division rings R in their centre and satisfy he
	condition. Also study the Left Division Algorithm and Lagrange's Theorem

M.Sc. (Mathematics)/SEMESTER-IV/Core-16 Title of the Course: COMPLEX ANALYSIS

CO – 1	Extend Calculus to Complex domain.
CO - 2	Develop the fundamentals of pointset Topology and Metric Space.
CO - 3	Distinguish between definite and indefinite integrals.
	familiar with the theory of definite integrals of real continuous functions.
CO – 4	Able to study the local properties of an analytic function in great detail.
CO – 5	Classify the isolated singularities of analytic functions.



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M.Sc. Mathematics/SEMESTER-IV /Core-17 Title of the Course: FUNCTIONAL ANALYSIS

CO – 1	Make use of the uniform boundedness theorem in the conjugate of an
	operator on a Banach Space.
CO - 2	Able to determine the natural imbedding of NinN**
CO - 3	Examine the properties of them aping from the operator on anormed linear
	space to its conjugate. understand the importance of operators such as self
	adjoint and normal operators.
CO – 4	Able to focus on fixed but arbitrary Hilbert space.
CO – 5	Analogy between the set of all operator son Hilbert space and the set of all
	complex numbers.

M.Sc. Mathematics/SEMESTER-IV/Core-18Title of the Course: TOPOLOGY-II

CO – 1	Demonstrate understanding of the concepts of countable, First countable space,
	Second countable space, Lindel of space, Separable space and Regular space.
CO - 2	Appreciate the concepts of normal space and derive normality from other spaces,
	and understand the Urysohn Lemma and completely regular definition.
CO - 3	Prove the Urysohnmetrization theorem, Imbedding theorem, Tietze extension
	theorem and explain the relation between Tietze extension theorem and Urysohn
	Lemma.
CO – 4	Prove elementary properties of locally finite collection and metrizable spaces,
	with understanding of Maximality with respect to the finite intersection property
	and the Tychon off theorem.
CO – 5	Explain Baire spaces, complete metric space, compact Hausdorff spaces and the
	relation between these spaces. Apply theoretical concepts in topology to
	understand some applications.


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M.Sc. Mathematics/SEMESTER-IV/Core-19 Title of the Course : PROJECT

CO – 1	Differentiate primary and secondary data and questionnaire
CO - 2	Explain a bout research methodology
CO - 3	Read articles and write anew article.
CO – 4	Know about the bibliography
CO – 5	Know how to write dissertations and present a paper in conferences.

I B.Sc PHYSICS / I SEMESTER CORE – PROPERTIES OF MATTER & MECHANICS

SUB. CODE: CMPH11

CO – 1	To define Stress, Strain, Poisson's ratio, Hooke's law, Torsion pendulum and
	determine the elastic constant by Searle's Method.
CO - 2	To derive the Expression for the Bending Moment, Cantilever depression, Uniform
	and Non-Uniform Bending.
CO - 3	To analyse the different Molecular Forces that causes tension on the surface of
	liquid and determine the surface tension by Capillary rise method and Quincke's
	Method
CO – 4	To understand the Analogy between translational and Rotational Motion, Angular
	Momentum, Angular Impulse, Moment of Inertia and Radius of gyration
CO – 5	To understand the law of floatation and determine the Meta Centric height of a
	ship and apply the principle of Bernoulli's Theorem in Pitot's tube and
	Venturimeter



Thoothukudi- 628 002, Tamil Nadu.

CORE – PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES-I

SUB. CODE: CPPS11

CO – 1	To recognize their own ability to improve their own competence in using the
	Language
CO - 2	To use language for speaking with confidence in an intelligible and acceptable
	manner
CO - 3	To understand the importance of reading for life
CO – 4	To understand the importance of writing in academic life
CO – 5	To write simple sentence without committing error of spelling or grammar

COMMON SUBJECT – ENVIRONMENTAL STUDIES SUB. CODE: CEVS11

CO – 1	To understand key concept from economic, political, and social analyses as they
	pertain to the design and evaluation of environmental policies and institutions
CO - 2	To appreciate concepts and methods from ecological and physical sciences and their application in environmental problems solving
CO - 3	To reflect critically about their roles and identities as citizens, consumers and
	environmental factors in a complex, interconnected world
CO – 4	To acquire awareness about immediate surroundings through lived experience on
	various themes related to daily life
CO – 5	To develop critical thinking for shaping strategies like scientific, social, economic
	and legal activities for environmental protection and conservation of biodiversity,
	social equity and sustainable development



Thoothukudi- 628 002, Tamil Nadu.

DEPARMENT OF PHYSICS

I B.Sc. PHYSICS / II SEMESTER CORE – OPTICS AND ACOUSTICS

SUB. CODE: CMPH21

CO – 1	To understand the concepts of spherical aberration, chromatic aberration in lenses,
	refraction, deviation, and dispersive power of a prism
CO - 2	To apply the phenomenon of interference on optical experiments like air wedge,
	Newton's rings, and Michelson's interferometer
CO - 3	To understand the theory of diffraction by a single slit, diffraction by a circular
	aperture, theory of grating and theory of different types of polarized light
CO – 4	To understand the properties, applications, production and detection of ultrasonic
	waves
CO – 5	To derive Sabine's formula and apply it to design the acoustically good auditorium
	and architectures

CORE – PROFESSIONAL ENGLISH FOR PHYSICAL SCIENCES-II

SUB. CODE: CPPS21

CO – 1	To attend interviews with boldness and confidence
CO - 2	To adapt easily into the workspace context, having become communicatively competent
CO - 3	To apply to the Research & Development Organisations/ Sectors in companies and
	offices with winning proposals
CO – 4	To understand the importance of reading for life
CO – 5	To recognise their own ability to improve their own competence in using the
	language
1	



Thoothukudi- 628 002, Tamil Nadu.

COMMON SUBJECT – VALUE BASED EDUCATION SUB. CODE: CVBE21

CO – 1	To understand the importance of value-based living and to gain deeper
	understanding about the purpose of their life
CO - 2	To understand and start applying the essential steps to become good leaders
CO - 3	To contribute in building a healthy nation and value-based professionals
CO – 4	To emerge as responsible citizens with clear conviction to practice values and
	ethics in life
CO – 5	To become value-based professionals

II B.Sc PHYSICS / III SEMESTER CORE – ELECTRICITY & ELECTROMAGNETISM

SUB. CODE: CMPH31

CO – 1	To understand basic concept of electricity and to distinguish between work done
	due to adiabatic and isothermal changes
CO - 2	To understand Concept of the Magnetism process
CO - 3	To use simple laboratory demonstrations and computer simulations to explain the
	basic properties of electric and magnetic fields, and electrical circuits
CO – 4	To recognize the need to engage in lifelong learning through continuing education
	and research
CO – 5	To understand electric and magnetic fields in matter



Thoothukudi- 628 002, Tamil Nadu.

SKILL BASED SUBJECT – MAINTENANCE OF ELECTRICAL APPLIANCES SUB CODE: CSPH31

CO – 1	To understand the operations and safe handling of commonly used domestic
	appliances
CO - 2	To understand the basic ideas about the components used in electrical appliances
CO - 3	To understand the basic ideas about transformers and their types and working
	principles
CO – 4	To describe the concept of household circuits and their wiring systems in detail
CO – 5	Managing the appliances with safety precautions using switches and fuses. To
	understand the basic ideas behind inverters, motors, and generators

II B.Sc PHYSICS / IV SEMESTER CORE – HEAT & THERMODYNAMICS

SUB. CODE: CMPH41

CO – 1	To understand basic concept of thermodynamics and to distinguish between work
	done due to Adiabatic and isothermal changes.
CO - 2	To understand Concept of thermodynamic process
CO - 3	To state laws of thermodynamics and concept of internal energy
CO – 4	To understand Carnot's ideal heats engine, Carnot cycle and its efficiency,
	Carnot's theorem, Otto and Diesel engines with their efficiencies
CO – 5	To state first and second latent heat equations & to understand Concept of entropy,
	Change of entropy in Reversible process and Irreversible process, T-S diagram



Thoothukudi- 628 002, Tamil Nadu.

SKILL BASED SUBJECT – MAINTENANCE OF ELECTRONIC APPLIANCES SUB CODE: CSPH41

CO – 1	To understand the basic ideas about the components we use in electronic appliances
	and to recognize resistors, capacitors, and connection systems
CO - 2	Understand the fundamentals of measuring instruments and to understand oscilloscopes and their various types
CO - 3	To understand the principles of operation of modern technology communication
	devices
CO – 4	To understand the classification of active and passive transducers and their types
CO – 5	To understand the principles of operation of modern technology communication
	devices

III B.Sc PHYSICS / V SEMESTER CORE – BASIC ELECTRONICS

SUB. CODE: AMPH51

CO – 1	Understand the various characteristics pertaining to diodes and its applications
CO - 2	Understand the transistor amplifiers, oscillators and wave shaping circuits
CO - 3	Understand the functions of operational amplifiers
CO – 4	Recall the basic concepts of semiconductor devices
CO – 5	Study different biasing techniques to operate transistor, FET, MOSFET in
	different mode



Thoothukudi- 628 002, Tamil Nadu.

CORE – SPECTROSCOPY

SUB. CODE: AMPH52

CO – 1	Explain different types of motion & Classify molecules according to rotational
	modes
CO - 2	Discriminate the effect of isotopic substitution
CO - 3	Discuss the 3 IR regions. Justify the interaction of rotations & vibrations on
	molecules
CO – 4	Analysed the IR techniques & explain its importance in research
CO – 5	Study of Vibrating diatomic molecule, energy levels of a diatomic molecule,
	simple harmonic and anharmonic oscillator, Scattering of light and Raman
	Spectrum. rotational and vibrational Raman Spectra

CORE – ATOMIC AND NUCLEAR PHYSICS

SUB. CODE: AMPH53

CO – 1	To understand the basic concepts of most of the commercially available lasers
CO - 2	To account for theoretical models' terminology and working methods used in
	atomic physics
CO - 3	To distinguish between Types of nuclear models: Single particle shell model and
	Liquid drop model
CO – 4	To understand nuclear reactions and conservation laws
CO – 5	To understand nuclear fission based on liquid drop model and nuclear fusion



Thoothukudi- 628 002, Tamil Nadu.

CORE ELECTIVE – COMMUNICATION ELECTRONICS

SUB. CODE: AEPH52

CO – 1	To analyse amplitude modulation and AM envelope. To explain AM frequency
	bandwidth and phasor representation of AM with carrier. To determine the
	coefficient of modulation or percentage modulation or modulation index
CO - 2	To explain about tuned radio frequency receiver or straight receiver. To elaborate
	double frequency conversion AM receiver
CO - 3	To illustrate the ratio detector and to elaborate the important features of FM super
	heterodyne receiver and FM noise suppression. Also to summarize about threshold
	extension by FMFB technique
CO – 4	To comparison of digital modulations can be done.to compare and classify
	correlative coding and Duo binary encoding
$\overline{CO-5}$	To elaborate about BFSK and to summarize about Binary phase shifting Key. The
	importance of Quadrature PSK and Differential PSK

SKILL BASED SUBJECT (COMMON) PERSONALITY DEVELOPMENT

SUB. CODE: ACSB51

CO – 1	Individual or in-group class presentations pertaining to the application of
	concerned theories or issues in human development
CO - 2	To design and complete a research project that can take the form of a developing
	interview, an observation or assessment through service learning
CO - 3	To research and write about relevant topics
CO – 4	Learn to balance confidence with humility and overcome problems associated with
	Personality
CO – 5	The student will be able to understand, analyse develop and exhibit accurate sense
	of self



Thoothukudi- 628 002, Tamil Nadu.

III B.Sc PHYSICS / VI SEMESTER CORE – QUANTUM MECHANICS

SUB. CODE: AMPH61

CO – 1	To understand the quantum concepts of black body radiation, Planck's theory and
	photoelectric effect
CO - 2	To acquire the knowledge of De Broglie's hypothesis and concepts of phase and
	group velocities
CO - 3	To understand the Heisenberg's uncertainty principle and its proof between energy
	and time.
CO – 4	To understand the concepts of wave function, eigen function, eigen value,
	operators and postulates of quantum mechanics
CO – 5	To acquire knowledge of application of quantum mechanics to simple harmonic
	oscillator and transmission across a potential barrier.

CORE – DIGITAL ELECTRONICS

SUB. CODE: AMPH62

CO – 1	To Define binary number. Differentiate the various codes in Binary system
CO - 2	To construct the circuit for the basic logic gates
CO - 3	To analyse the circuit of as table and monostable multivibrator
CO – 4	To explain the function of a multiplexer and De- multiplexer
CO – 5	To draw the circuit for frequency divider



Thoothukudi- 628 002, Tamil Nadu.

CORE – SOLID STATE PHYSICS

SUB. CODE: AMPH63

CO – 1	To understand basic concept of crystal Structure to distinguish between work done
	in different research area
CO - 2	To understand concept of the Magnetism process through internet and books
CO - 3	Students will be able to use simple laboratory demonstrations and computer simulations to explain the basic properties of electric and magnetic fields, and electrical circuits
CO – 4	Recognize the need to engage in lifelong learning through continuing education and research
CO – 5	To understand dielectric and magnetic fields in matter

CORE ELECTIVE – ENERGY PHYSICS

SUB. CODE: AEPH61

CO – 1	To understand the importance of conventional and non-conventional energy
	resources
CO - 2	To understand the applications, merits, and demerits of conventional and non-
	conventional energy resources
CO - 3	To understand solar energy appliances with their merits and demerits
CO – 4	To understand the basic ideas of biomass energy and recognise their merits and
	demerits.
CO – 5	To understand the fundamental concepts of oceans and chemical energy resources,
	as well as their benefits and drawbacks



Thoothukudi- 628 002, Tamil Nadu.

DEPARTMENT OF ZOOLOGY

CORE COURSE: 1. 1 – ANIMAL DIVERSITY I INVERTEBRATA

Subject Code: AMZO11

CO – 1	Relate the diversity and basic taxonomy of non- chordates
CO - 2	Interpret the biological status of the animals at basic level in their habitat
CO - 3	Analyse and examine the adaptations of the parasites and their impact on human
	health and welfare
CO – 4	Compare the diversity of arthropods and appraise their economic importance
CO – 5	Critically appraise the distribution and food value of molluscs and phylogenetic
	significance of echinoderms

CORE COURSE: 2.1 – ANIMAL DIVERSITY II CHORDATA

Subject Code: AMZO21

CO – 1	Recall the diversity and basic taxonomy of chordates
CO - 2	Understand and examine the biological systems and evolution of chordates
CO - 3	Analyse and compare the adaptations and their importance in distribution
CO – 4	Identify and appreciate the functions of vertebrate animals at various levels
CO – 5	Apply their skills for conservation, sustainable development, economic utilisation
	and its potentials in technological prospects



Thoothukudi- 628 002, Tamil Nadu.

CORE COURSE: 3.1 - DEVELOPMENTAL ZOOLOGY

Subject Code: AMZO31

CO – 1	Find the processes right from fertilization of a single cell egg to the formation of a
	well structured and functional multicellular organism
CO - 2	Understand and gain knowledge about the developmental stages like fertilization,
	cleavage and gastrulation
CO - 3	Compare the human embryo development to other animals and the regeneration,
	metamorphosis, transplantation and differentiations of stem cells in the organisms
CO – 4	Identify the integrative aspects of building of organisms and examine the
	developmental abnormalities and other conditions such as cancer
CO – 5	Analyse the developmental biology as a key subject in Zoology and justify it as
	amotor for research, in the human diseases and fertility

SKILL BASED CORE COURSE

SKB- CORE : 3.2 -NUTRITION AND DIETETICS

Sub Code: ASZO32

CO – 1	Recollect the classification and types of nutrients and food stuffs
CO - 2	Understand the nutritive value and metabolism of food materials
CO - 3	Determine the energy value and BMR and limitations
CO – 4	Perceive knowledge on balanced diet and its application and importance to avoid
	deficiency diseases
CO – 5	Evaluate therapeutic diets and prepare diets to control and overcome diseases



Thoothukudi- 628 002, Tamil Nadu.

CORE COURSE: 4.1CELL BIOLOGY AND BIOCHEMISTRY

Subject Code: AMZO41

CO – 1	Understand cell, its biology, and origin of cells, diversity and structure and learn
	the basic differences between prokaryotic and eukaryotic cells and understand the
	basis of cytological techniques, principle of working and its application of
	microscope
CO - 2	Analyse the structural organization and function of plasma membrane,
	mitochondria, nucleus, lysosomes etc
CO - 3	Acquire knowledge about how cell divides by means of meiosis and mitosis and
	factors which control cell cycle, structure of DNA and replication of DNA in cells
CO – 4	Describe the process of transcription, RNA processing and translation in
	prokaryotes and eukaryotes
CO – 5	Understand the causes and effects of cancer

SKILL BASED CORE COURSE

SKB- CORE COURSE: 4.2 VERMITECHNOLOGY

Sub Code: ASZO42

CO – 1	Find out Vermi composting is an eco-friendly, economically and socially
	acceptable technology
CO - 2	Illustrate that Vermite chnology is useful for stabilization and recycling of both
	industrial and domestic organic waste
CO - 3	Utilize Vermite chnology to improve the soil texture, soil aeration, improve the
	water retention capacity in the soil
CO – 4	Apply Vermitechnology to conver rural and urban garbage into nutrient
	richecofriendly organic manure
CO – 5	Apply the ethical principles and commit to pledge responsibilities to protect and
	save environment



Thoothukudi- 628 002, Tamil Nadu.

CORE COURSE: 5.1 – ECOLOGY AND TOXICOLOGY

Subject Code: AMZO51

CO – 1	Recall the principles, applications and concepts of ecology and eco system, how
	biotic and a biotic factors that are related to ecosystem
CO - 2	Understand how the animals interact with each other and their natural environment
CO - 3	Analyse and compare the differences in the structure and function of different
	types of ecosystem
CO – 4	Emphasize the role of key factors responsible for changes in natural eco system
	such as pollution and urbanization and capable of pollution and other effects
CO – 5	Interpret the diversity of species in relation to natural process and sustenance of
	life

CORE COURSE: 5.2 – GENETICS

Subject Code: AMZO52

CO – 1	Analyse the basic principles of Mendelian inheritance and Genic interaction
CO - 2	Construct Chromosome map using crossing over
CO - 3	Explain the concept and factors involved in gene mutation
CO – 4	Assess the impact of chromosomal abnormalities in human
CO – 5	Relate Eugenics & Euthenics and Inbreeding & Out breeding



Thoothukudi- 628 002, Tamil Nadu.

CORE COURSE: 5.3 – ANIMAL PHYSIOLOGY AND BIOCHEMISTRY

Subject Code: AMZO53

CO – 1	List out the physiological concepts in nutrition, digestion, metabolism, respiration
	etc.,
CO - 2	Compare the various physiological processes in the animals
CO - 3	Identify the working mechanisms of effectors, homoeostasis and understand how
	the animals adapt in the environments
CO – 4	Analyse the fundamental interactions between physiology and endocrinology
CO – 5	Justify the correlation of structure, coordination of functions and working system
	in the organs in the human body

CORE COURSE : 5.4 IMMUNOLOGY AND MICROBIOLOGY

Subject Code: AMZO54

CO – 1	Understand the structure, classification and culture techniques of microbes
CO - 2	Analyse and distinguish food poisoning, food spoilage and preservation methods
CO - 3	Develop entrepreneurial skills with the knowledge on the role of microbes in
CO – 4	fermentation, microbial products and the role of pathogens in humaninfectious
	diseases
CO – 5	Understand the concepts of immune system, cellular and molecular basis
	ofimmune responses, autoimmunity and immunoglobulins



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CORE COURSE : 6.1 – EVOLUTION

Subject Code: AMZO61

CO – 1	Understand the origin of life and evidences in favour of evolution
CO - 2	Accept the modern concept of evolution
CO - 3	Analyse the concept of evolution especially population genetics
CO – 4	Learn relationship between a biotic and biotic factors adaptation in the view of
	evolution
CO – 5	Get thorough knowledge of the tree diagram of evolution of various animals and
	patterns of distribution

CORE COURSE: 6.2- ANIMAL BIOTECHNOLOGY

Subject Code: AMZO62

CO – 1	Relate the basic principles of recombinant DNA technology
CO - 2	Explain various molecular techniques used in modern biotechnology
CO - 3	Categorise the cell and organ culture techniques
CO – 4	Make use of hybridoma technology for the production of monoclonal antibody
CO – 5	Compare the microbial enzyme and artificial enzymes



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BIOSTATISTICS, COMPUTER APPLICATIONS AND BIOINFORMATICS

Subject Code: AMZO63

CO – 1	Attain an insight on statistical methods for analysis of biological data
CO - 2	Undertake statistical operations in biology
CO - 3	Gain basic understanding of computer hardware and software and use
	productivesoftwares effectively
CO – 4	Acquire knowledge on the bioinformatic concepts for analyzing molecular data
CO – 5	Analyse and use the bioinformatics tools for advanced sequence alignment,
	databasesearches, genome analysis and protein structure studies

CORE ELECTIVE COURSE: 6.4A –SERICULTURE

Subject Code: AEZO61

CO – 1	Understand the scope sericulture and mulberry cultivation practices
CO - 2	Gain knowledge on diseases of silkworms and pests of mulberry
CO - 3	Understand the classification, life cycle and physiology of silkworm
CO – 4	Apply the rearing methods, harvesting of cocoon and cocoon marketing
CO – 5	Examine process of reeling, producing raw silk and marketing



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CORE ELECTIVE COURSE: 6.5A – APICULTURE

Subject Code: AEZO 64

CO – 1	Classify the honey bees and categorize its developmental stages and explainthe
	principles of Apiculture and methods of Bee keeping
CO - 2	Construct modern hives and rear and recommeds apiary as a less expensive but
	profitable self employment
CO - 3	Make use of Honey bee products and marketing
CO – 4	Distinguish the enemies of bees and protect the bees from various diseases and
	identify swarming, robbing and foraging behaviour of bees in an apiary.
CO – 5	Trust the less expensive but profitable self employment

CELL BIOLOGY, GENETICS AND BIOTECHNOLOGY

Subject Code: AAZO11

CO – 1	Recall the basic structure and function of the animal cell
CO - 2	Understand the genetic principles about the inheritance of traits
CO - 3	Apply the knowledge of biotechnological techniques
CO – 4	Evaluate the applications on the welfare of human beings
CO – 5	Production of Genetically manipulated transgenic animal for therapeutic products
	production



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DEVELOPMENTAL ZOOLOGY, ECOLOGY, ANIMAL PHYSIOLOGY ANDEVOLUTION Subject Code: AAZO21

CO – 1	Recognize the basic concept of developmental stages of the animals
CO - 2	Understand the interaction of abiotic and biotic factors in the ecosystem and its
	components
CO - 3	Apply the knowledge of vital physiological functions of our body
CO – 4	Understand the advances in medicinal therapy for heart Kidney and reproductive
	structures
CO – 5	Evaluate the evolutionary concepts on origin of life

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PG DEPARTMENT OF COMPUTER SCIENCE

I B.Sc. Computer Science / Semester – I / Core-1

PROGRAMMING IN C

Subject Code: CMCS11

CO – 1	To obtain knowledge about the structure of the programming language
CO - 2	To develop the program writing and logical thinking skill
CO - 3	To summarize statements and arrays
CO – 4	To make use of defined functions
CO – 5	To explain pointers and files

I B.Sc. Computer Science / Semester – I / Allied – 1

DISCRETE MATHEMATICS

Sub Code: CACS11

CO – 1	To recall basic concepts for clear understanding of mathematical principles
CO - 2	To explain practical problems
CO - 3	To construct matrices using discrete mathematics
CO – 4	To analyze techniques to draw graph using mathematics
CO – 5	To design graphs using the representations



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I B.Sc. Computer Science / Semester – I / Major Practical – I

PROGRAMMING IN C

Subject Code: CMCSP1

CO – 1	To define the features of C by applying sample problems
CO - 2	To explore skills in implementing algorithms through the programming Language C
CO - 3	To develop array of elements
CO – 4	To evaluate matrices
CO – 5	To develop the programs using pointers and functions

I B.Sc. Computer Science / Semester – II / Core - 2 OBJECT ORIENTED PROGRAMMING IN C++

Sub Code: CMCS21

CO – 1	To define the basic knowledge of object oriented programming concepts
CO - 2	To relate the idea of classes and objects
CO - 3	To analyze and develop constructors and destructors
CO – 4	To design C++ streams, Inheritance, Overloading of operators, functions,
	constructors, File Handling and templates concepts of C++ programming
CO – 5	To develop the knowledge about how to work on files



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I B.Sc. Computer Science / Semester – II / Major Practical – II

PROGRAMMING IN C++

Subject Code: CMCSP2

CO – 1	To define object oriented programming concepts using class and member
	functions
CO - 2	To develop overloading operators
CO - 3	To analyze friend function
CO – 4	To gain the knowledge about the importance of constructor
CO – 5	To design C++ virtual functions

I B.Sc. Computer Science / Semester – II / Allied Practical - II

LINUX

Sub Code: CACSP1

CO – 1	To find various Linux commands
CO - 2	To interpret and make effective use of Linux utilities
CO - 3	To construct Shell scripting language to solve problems
CO – 4	To list shell scripting conditions
CO – 5	To develop Linux communication oriented commands



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III B.Sc. Computer Science / Semester – III /Core	
JAVA PROGRAMMING Sub Code: CMCS3	
	simplify Boolean functions and to distinguish logical and combinational circuits
CO - 2	Illustrate the concept of digital and binary systems
CO - 3	Be able to develop combinational logic circuits
CO – 4	Be able to design and analyse sequential logic circuits
CO – 5	Construct and implementation of digital circuits and systems

III B.Sc. Computer Science / Semester – III /Core DIGITAL DESIGN

Subject Code: CSCS31

CO – 1	To recall the basic concepts of Object Oriented Programming
CO - 2	To apply the tools of Object – Oriented Paradigm in Java programming
CO - 3	To understand the fundamentals of applet, event – driven programming
CO – 4	To analyze the ability to develop Applet programs with tools of Java
CO – 5	To design the skills to develop software



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

JAVA PROGRAMMING LAB

Subject Code: CMCSP3

CO – 1	Illustrate and make effective use of Java Programming to develop software
CO - 2	Develop Java application programs using OOP principles
CO - 3	Apply Constructors and Overriding methods
CO – 4	Develop multithreaded programs
CO – 5	To implement error handling techniques using exception handling

III B.Sc. Computer Science / Semester – III / Allied-III

SCRIPTING LANGUAGES

Subject Code: CACS31

CO – 1	To understand the basic concepts of HTML and web programming
CO - 2	To Demonstrate the concepts of scripting languages for developing web-based projects
CO - 3	Ability to compare the differences between Scripting languages and programming languages
CO – 4	To understand CSS files HTML Multimedia
CO – 5	Ability to develop projects using HTML and Web pages



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III B.Sc. Computer Science/ Semester – III / Allied Practical-II

SCRIPTING LANGUAGES LAB

Subject Code: CACSP3

CO – 1	To develop knowledge in web-based projects
CO - 2	To demonstrate programming skills in scripting languages
CO - 3	To construct the skill of designing GUI in scripting languages
CO – 4	To categorize CSS files
CO – 5	To design JavaScript programs

III B.Sc. Computer Science / Semester – IV /Core

DATA STRUCTURES

Subject Code: CMCS41

CO – 1	To understand the concepts of basic data structures
CO - 2	To acquire the knowledge about stack, Queues and Linked list
CO - 3	To have general understanding of the network structures through trees and graph
CO – 4	To make the students to understand the basic algorithms for sorting
CO – 5	Define data structure Algorithms

II B.Sc. Computer Science / Semester – IV /Skill Based Core II COMPUTER ARCHITECTURE Subject Code: CSCS41

CO - 1 Understand the basics of Computers and its Organization
CO - 2 Know the various Technologies behind the Computer Architecture
CO - 3 An ability to apply knowledge about hardware implementation and algorithms
CO - 4 To evaluate various input output organisations
CO - 5 To develop the architecture using various memories



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III B.Sc. Computer Science) / Semester – IV /Allied-II MACHINE LEARNING TEQUNIQUES

Subject Code: CACS41

CO – 1	To introduce students to the basic concepts of Machine Learning
CO - 2	To acquire various techniques in Machine learning
CO - 3	To have a thorough understanding of the Supervised and Unsupervised learning
	techniques
CO – 4	To study the probability based learning techniques
CO – 5	To understand graphical models of machine learning algorithms

III B.Sc. Computer Science / Semester – IV / Major Practical-IV

DATA STRUCTURE

Subject Code: CMCSP4

CO – 1	To develop skills in implementing sort and search data structure algorithms
CO - 2	To implement queue and stack techniques
CO - 3	To design tree traversals
CO – 4	To implement binary search tree
CO – 5	To Compile sorting algorithms



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III B.Sc. Computer Science / Semester – IV /Allied Practical

PYTHON

Subject Code: CACSP4

CO – 1	To understand the basic concepts in python
CO - 2	To understand the concepts and develop python programs
CO - 3	To acquire the knowledge about menu driven programs
CO – 4	To improve the knowledge in CSV files
CO – 5	To understand the functions of python

III B.Sc. Computer Science / Semester – IV /Skill based Practical I

CO – 1	To knows about the various Applications of Multimedia
CO - 2	To develop two- dimensional graphical applications
CO - 3	To design multimedia animations
CO – 4	To know the knowledge about video works in multimedia applications
CO – 5	To implement interactive games



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III B.Sc. Computer Science / Semester – V /Core

RELATIONAL DATABASE MANAGEMENT SYSTEM

Sub Code: AMCS51

CO – 1	To outline relational database concepts	
CO - 2	To relate transaction management concepts in database system	
CO - 3	To utilize Normalizations techniques	
CO – 4	To write SQL programs that use: procedure, function, package, cursor and	
	Exceptions	
CO – 5	To Use current techniques and tools necessary for complex computing practices	

III B.Sc. Computer Science / Semester – V /Core

DATA COMMUNICATION AND COMPUTER NETWORKS Sub Code: AMCS52

CO – 1	To define the concepts in Computer Network and Data Communication
CO - 2	To outline the various protocols used in network
CO - 3	To compare OSI Layers in Computer networks
CO – 4	To list about Switching Techniques
CO – 5	To discuss wireless LAN's

III B.Sc. Computer Science / Semester – V /Core

PHP and My SQL

Subject Code: AMCS53

CO – 1	To define and use open source database management system MySQL
CO - 2	To explain dynamic web pages and websites
CO - 3	To identify web pages with database
CO – 4	To compare the concepts of open sources
CO – 5	To assess the knowledge about Arrays



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III B.Sc. Computer Science / Semester – V /Major Practical-V		
PHP La	ıb S	Subject Code: AMCSP5
CO – 1	To develop knowledge about basic PHP Programs	
CO - 2	To evaluate PHP scripts and functions	
CO - 3	To develop arrays in PHP	
CO – 4	To design loops in PHP	
CO – 5	To compare the scripts and functions in PHP	

III B.Sc. Computer Science / Semester – V /Major Practical-IV

Machine learning Practical

Subject Code: AMCSP6

CO – 1	Apply the concepts and practical knowledge in analysis, design and Development
	of computing systems
CO - 2	To make use of applications to multidisciplinary problems
CO - 3	To discuss the knowledge about various algorithms
CO – 4	To interpret the knowledge about various datasets
CO – 5	Develop data frames in Machine Leaning

III B.Sc. Computer Science / Semester – V/Major Elective- 3.

CLOUD COMPUTING

Subject Code: AECS53

CO – 1	To understand the History of cloud computing
CO - 2	To know in detail about the various Cloud Computing concepts
CO - 3	To enquire cloud computing Architecture
CO – 4	To understand SOA components
CO – 5	To know about cloud security and privacy



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III B.Sc. Computer Science / Semester – VI /Core

OPERATING SYSTEM

Subject Code: AMCS61

CO – 1	To gain fundamental knowledge in computer
CO - 2	To characteristic, parts and applications of computers
CO - 3	To know the various devices and familiarize with their functionsTo know the usage of internet
CO – 4	To discuss the emerging trends in computer Science
CO-5	To explain the concepts of Internet

III B.Sc. Computer Science / Semester – VI /Core

SOFTWARE ENGINEERING AND TESTING

Subject Code: AMCS62

CO – 1	To define the fundamental knowledge of Software Engineering
CO - 2	To classify the various testing methods
CO - 3	To analyze various software life cycle models
CO – 4	To interpret User Interface design
CO – 5	To select software project managements

III B.Sc. Computer Science / Semester – VI /Core COMPUTER GRAPHICS AND VISUALIZATION

Subject Code: AMCS63

CO – 1	To understand the overview of the graphics visualization
CO - 2	To acquire the fundamental knowledge of Computer Graphics and Visualization
CO - 3	To understand the Algorithms in Computer Graphics
CO-4	To acquire the transformation technique in Graphics
CO – 5	To understand the Interactive methods easily



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III B.Sc. Computer Science / Semester – VI /Core INTRODUCTION TO DIGITAL IMAGE PROCESSING

Sub Code: AMCS64

CO – 1	To define the fundamental knowledge of introduction to Digital Image Processing
CO - 2	To explain the features present in Digital Image Processing
CO - 3	To outline the enhancement of spatial domain
CO – 4	To analyze the color Image processing
CO – 5	To interpret the image using compression

III B.Sc. Computer Science / Semester – VI /Project PROJECT – DIGITAL IMAGE PROCESSING USING SCILAB/MATLAB

Subject Code: AMCS6P

CO – 1	To get knowledge about the basic programs on Digital Image Processing
CO - 2	To acquire the knowledge from Thresholding Technique
CO - 3	To read the colour image and separate the planes
CO – 4	To perform the brightness of the image
CO – 5	To manipulate the contrast image

III B.Sc. Computer Science / Semester – VI / Major Practical VII COMPUTER GRAPHICS LAB Subject

Subject Code: AMCSP7

CO – 1	To illustrate skills in programming computer graphics
CO - 2	To apply multimedia concepts
CO - 3	To compile the algorithms to draw line, circle etc
CO – 4	To develop image using Scaling, Rotating and translation technique
CO – 5	To demonstrate the image using random and bouncing balls



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III B.Sc. Computer Science / Semester – VI /Major Elective - II

INTERNET OF THINGS

Subject Code: AECS61

CO – 1	To define the fundamentals of IOT
CO - 2	To outline about IOT working
CO - 3	To discuss the Architecture of IOT
CO – 4	To outline how IOT is used in Education and Agricultural level
CO – 5	To explain security in IOT

I M.Sc. Computer Science / Semester – I / Core-1

Design Analysis of Algorithm

Subject Code:ZCSM11

CO – 1	Identify the Characteristics of an algorithm
CO - 2	Understand the problem-solving approaches using computers
CO - 3	Compute the time complexity of an algorithm
CO – 4	Analyze the performance of an algorithm in solving a problem
CO – 5	Compare the performance of various algorithms in solving a specific-problem

I M.Sc. Computer Science / Semester – I / Core-2

Advanced Java Programming

Subject Code: ZCSM12

CO – 1	Understand swing components and its usage
CO - 2	Implement Networking and Data base connectivity in Java for given application
CO - 3	Implement webpage with dynamic content and server side web application using
	Servlet and JSP
CO – 4	Develop Java application using spring frame work
CO – 5	Understand Servlet and JSP



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I M.Sc. Computer Science / Semester – I / Core-3 Mathematical Foundation for Computer Science

Subject Code: ZCSM13

CO – 1	Evaluate the validity of logical arguments and construct mathematical proofs
CO - 2	administer all the basic operations with sets
CO - 3	understand abstract algebraic structure like groups and their properties
CO – 4	Analyze whether given graphs are isomorphic and apply different algorithms to
	find the shortest path Apply Mathematical techniques into many areas of
	Computer science like Algorithms, Computer Networks, and Cryptography etc
CO – 5	Apply Mathematical techniques into many areas of Computer science like
	Algorithms, Computer Networks, and Cryptography etc

I M.Sc. Computer Science / Semester – I / Core-4 Compiler Design

Subject Code: ZCSM14

CO – 1	Understand the different phases of compiler
CO - 2	Design a lexical analyzer for a sample language
CO - 3	Apply different parsing algorithms to develop the parsers for a given Grammar
CO – 4	Understand syntax-directed translation and run-time environment
CO – 5	Learn to implement code optimization techniques and a simple code Generator



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I M.Sc. Computer Science / Semester – I / Core-5

Distributed Operating System

Subject Code: ZCSM15

CO – 1	Gain knowledge about the history of the Linux operating system, its unique licensing model and the major distributions that are available to use
CO - 2	start and stop services from running in the Linux operating systems
CO - 3	Implement process scheduling algorithms
CO – 4	Learn to manage files and directories in the Linux operating system CO5: To use the Linux environment for problem solving
CO – 5	To use the Linux environment for problem solving

I M.Sc. Computer Science / Semester – I / Core-6 Practical-1

Algorithm Lab

Subject Code: ZCSL11

CO – 1	Implement algorithms for solving real-time problems
CO - 2	Analyse the time required to solve a problem
00 -	
CO - 3	Obtain optimized solution
00 5	
CO-4	Solve different mathematical problems
00 1	Solve unteren munematem proteins
CO-5	Define new algorithm
00 5	



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I M.Sc. Computer Science / Semester – I / Core-7 Practical -2

Advanced Java Programming Lab

Subject Code: ZCSL12

CO – 1	Understand swing components and its usage
CO - 2	Implement Networking and Data base connectivity in Java for given application
CO - 3	Implement webpage with dynamic content and server side web application using
	Servlet and JSP
CO-4	Develop Java application using spring framework
CO – 5	Develop new java application

I M.Sc. Computer Science / Semester – II / Core-8

Advanced Web Technology

Subject Code: ZCSM21

CO – 1	Design a webpage with Web form fundamentals and web control classes
CO - 2	Recognize the importance of validation control, cookies and session
CO - 3	Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to develop a client server model
CO – 4	Recognize the difference between Data list and Data grid controls in accessing data
CO – 5	Implement security and authentication



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I M.Sc. Computer Science / Semester – II / Core-9

Machine Learing

Subject Code: ZCSM22

CO – 1	Have a good understanding of the fundamental issues and challenges of machine
	learning: data, model selection, model complexity, etc
CO - 2	Have an understanding of the strengths and weaknesses of many popular machine
	learning approaches
CO - 3	Appreciate the underlying mathematical relationships within and across Machine
	Learning algorithms and the paradigms of supervised and un-supervised learning
CO – 4	Have an understanding of the strengths and weaknesses of many popular machine
	learning approaches
CO – 5	Be able to design and implement various machine learning algorithms in a range of
	real- world applications

I M.Sc. Computer Science / Semester – II / Core-10

Advanced DBMS

Subject Code: ZCSM23

CO – 1	Recognize the importance of Various Data models and Architecture
CO - 2	Analyze and Design the normalized database schema
CO - 3	Decide the database for his problem
CO – 4	Develop database solutions
CO – 5	Write database queries in SQL, PL SQL and No SQL


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I M.Sc. Computer Science / Semester – II / Core-11

Cryptography and Network Security

Subject Code: ZCSM24

CO – 1	Understand the fundamentals of networks security, security architecture, threats
	and vulnerabilities
CO - 2	Apply the different cryptographic operations of symmetric/asymmetric
	cryptographic algorithms
CO - 3	Analyze various authentication protocols and apply them in real time
CO – 4	Analyze the security threats and study the various countermeasures
CO – 5	Identify the applications of network security in various fields. CO6: Design and
	Develop a security model

I M.Sc. Computer Science / Semester – II / Elective-I

Data Mining

Subject Code: ZCSM22

CO – 1	Evaluate various mining techniques on complex data objects
CO - 2	Develop applications using Data Mining Tools
CO - 3	Develop ability to design various algorithms based on data mining tools
CO – 4	Develop further interest in research and design of new Data Mining techniques
CO – 5	Handle Web data and use Orange tool



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I M.Sc. Computer Science / Semester – II / Core-12/ Practical -3

Advanced Web Technology

Subject Code: ZCSL21

CO – 1	Design a webpage with Web form fundamentals and web control classes
CO - 2	Recognize the importance of validation control, cookies and session
CO - 3	Apply the knowledge of ASP.NET object, ADO.NET data access and SQL to
	develop a client server model
CO – 4	Recognize the difference between Data list and Data grid controls in accessing
	data
CO – 5	Create a Website

I M.Sc. Computer Science / Semester – II / Core-13/ Practical -4

Machine Learning Lab Using Python

Subject Code: ZCSL22

CO – 1	To learn to use Weka tool for implementing machine learning algorithms related to
	numeric data
CO - 2	To learn the application of machine learning algorithms for text data
CO - 3	To use dimensionality reduction algorithms for image processing applications
CO – 4	To apply CRFs in text processing applications
CO – 5	To use fundamental and advanced neural network algorithms for solving real-
	world data



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I M.Sc. Computer Science / Semester – III / Core-14

Digital Image Processing

Subject Code: ZCSM31

CO – 1	Review the fundamental concepts of a digital image processing system and
	Analyze images in the frequency domain using various transforms
CO - 2	Evaluate the techniques for image enhancement and image restoration. Categorize
	various compression techniques
CO - 3	Interpret Image compression standards, and Interpret image segmentation and
	representation techniques
CO – 4	Gain idea to process various image used in various fields such as weather
	forecasting
CO – 5	Diagnosis of various disease using image such as tumor, cancer etc

I M.Sc. Computer Science / Semester – III / Core-15

Soft Computing

Subject Code: ZCSM32

CO – 1	To understand the fundamental theory and concepts of neural networks, Identify
	different neural network architectures, algorithms, applications and their
	limitations
CO - 2	Comprehend the fuzzy logic and the concept of fuzziness Involved in various
	systems and fuzzy set theory
CO - 3	Understand the concept soft fuzzy sets, knowledge representation using fuzzy
	rules, approximate reasoning, fuzzy inference systems, and fuzzy logic
CO – 4	Understand appropriate learning rules for each of the architectures and learn
	several Genetic algorithms paradigms and its applications
CO – 5	Understand the usage of Genetic Algorithm



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I M.Sc. Computer Science / Semester – III / Core-16

Advanced Computer Networks

Subject Code: ZCSM33

CO – 1	Understand fundamental underlying principles of computer networking
CO - 2	Understand details and functionality of layered network architecture
CO - 3	Apply mathematical foundations to solve computational problems in computer
	networking
CO – 4	Analyze performance of various communication protocols
CO – 5	Compare routing algorithms CO6: Practice packet /file transmission between
	nodes

I M.Sc. Computer Science / Semester – III / Core-17

Research Methodology

Subject Code: ZCSM34

CO – 1	Ability to apply different research approaches and methodologies
CO - 2	Develop data collection instrument according to the underlying theoretical framework
CO - 3	Analyze quantitative data and qualitative data using software packages
CO – 4	Construct and document an appropriate research design
CO – 5	Discuss limitations and potential contribution to theory and practice of research

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I M.Sc. Computer Science / Semester – III / Elective-2

Cloud Computing

Subject Code: ZCSE31

CO – 1	Interpret the key dimensions of the challenges of Cloud Computing
CO - 2	Examine the economics, financial, and technological implications for selecting cloud computing for own organization
CO - 3	Assessing the technological, and organizational capacity of employer's for actively initiating and installing cloud-based applications
CO – 4	Evaluate own organizations' needs for capacity building and training in cloud computing-related IT areas
CO – 5	Illustrate Virtualization for Data-Centre Automation

I M.Sc. Computer Science / Semester – III / Core-18 Practical-5

Digital Image Processing Using Sci Lab

Subject Code: ZCSL31

CO – 1	Identify the need for various digital images processing techniques apply them and
	Analyze deferent types of real world images
CO - 2	Evaluate the techniques for image enhancement and image restoration. Categorize
	various image compression techniques
CO - 3	Interpret Image compression standards, and Interpret image segmentation and
	representation techniques
CO – 4	Apply various morphological operators for image pre and post processing in
	specific application
CO – 5	Solve real time problems