

**PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES,
COURSE OUTCOMES**

The College has clearly stated learning outcomes of the Programmes and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.

- Hard copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students.
- Soft copy of Curriculum and Learning outcomes of Programs are uploaded in the Institutional website.
- The importance of the learning outcomes is communicated to the teachers in every IQAC meeting.
- The learning outcomes are also communicated to the students through the teachers.

DEPARTMENT OF COMMERCE	
B.Com.	
Programme Outcome	This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing Companies and Ware houses to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager and over all Administrative abilities of the Company.
Programme Specific Outcome	A candidate after successful completion of B.Com. degree in Commerce is able to <ul style="list-style-type: none"> • acquire broad knowledge and technical skills in Commerce and are able to get discipline based solutions relevant to the business. • can apply research skills to solve business challenges. • become effective global citizens who exhibit cross cultural competence. • demonstrate ethical values.
M.Com.	
Programme Outcome	This program makes the students employable in teaching profession and in corporate sector. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank manager, Cost accountant, Academicians, Project management and Research Analysts.
Programme Specific Outcome	A candidate after successful completion of M.Com. degree in Commerce is able to

	<ul style="list-style-type: none"> • have the knowledge, skills and attitudes at the completion of M.Com. degree course. • become Managers, Accountants, Cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Professors, Stock Agents, Government job holders etc. • apply research skill to business challenges. • become effective global citizens who exhibit cross cultural competence and demonstrate ethical values.
DEPARTMENT OF HISTORY	
B.A. HISTORY	
Programme Outcome	This program will develop a comprehensive understanding of the epistemological and methodological distinctiveness of history as a discipline and an ability to reflect on the significance of the influence of other disciplines on the development of historical method.
Programme Specific Outcome	<p>Students who complete B.A. History are expected to emerge with the following knowledge and skills to</p> <ul style="list-style-type: none"> • learn a basic narrative of historical events in a specific region of the world. • understand and evaluate historical ideas, arguments and points of view. • evaluate competing interpretations and multiple narratives of the past. • gather and assess primary historical evidence. • compile a bibliography.
M.A. HISTORY	
Programme Outcome	This program will develop a conceptual understanding that enables the student to evaluate critically scholarly writing in history and to undertake informed source-criticism.
Programme Specific Outcome	<p>Students who complete M.A. History should emerge with the following knowledge and skills to</p> <ul style="list-style-type: none"> • understand the background of our religion, customs, institutions, administration and so on. • understand the present existing social, political, religious and economic conditions of the people. • respond constructively to debate and criticize. • address specialist and non-specialist audiences with effective oral communication. • identify an area of historical enquiry and engage in independent

	historical research.
DEPARTMENT OF MATHEMATICS	
B.Sc. MATHEMATICS	
Programme Outcome	This program enables the students to get a relational understanding of mathematical concepts and the ability to analyze a problem, identify and define the computing requirements. It equips the students with mathematical modeling abilities, problem solving skills and creative talent necessary for various kinds of employment.
Programme Specific Outcome	A candidate after successful completion of B.Sc. degree in Mathematics is able to <ul style="list-style-type: none"> • think in a critical manner. • formulate and develop mathematical arguments in a logical manner. • acquire good knowledge and understanding in advanced areas of mathematics • understand, formulate and use quantitative models arising in social science, Business and other contexts.
M.Sc. MATHEMATICS	
Programme Outcome	This program inculcates critical thinking to carry out scientific investigation objectively without being biased with preconceived notions, equip the student with skills to analyze problems, formulate a hypothesis, evaluate and validate results and draw reasonable conclusions thereof and prepare students for pursuing research or careers in industry in mathematical sciences and allied field.
Programme Specific Outcome	A candidate after successful completion of M.Sc. degree in Mathematics is able to <ul style="list-style-type: none"> • understand the fundamental axioms in mathematics and enable them to develop ideas based on them. • provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains. • provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions. • nurture problem solving skills, thinking, creativity through assignments, project work.
DEPARTMENT OF CHEMISTRY	

B.Sc. CHEMISTRY	
Programme Outcome	This program enables the student to demonstrate, solve and understand the major concepts in all branches of chemistry, solve the problem by thinking methodically, independently and draw a logical conclusion. It creates an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
Programme Specific Outcome	A candidate after successful completion of B.Sc. degree in Chemistry is able to <ul style="list-style-type: none"> • gain the knowledge of Chemistry through theory and practical. • explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions. • use modern chemical tools, Models, Chem-draw, Charts and Equipments. • know structure-activity relationship and understand good laboratory practices and safety.
M.Sc. CHEMISTRY	
Programme Outcome	This program develops the knowledge on the basic and advanced level aspects in the different disciplines of chemistry, improve the analytical and problem solving skills and makes the students suitable for further research work and for teaching fields at higher degree level.
Programme Specific Outcome	A candidate after successful completion of M.Sc. degree in Chemistry is able to <p style="text-align: center;">improve their competencies on par with their counterparts in premier institutions across the nation.</p> <ul style="list-style-type: none"> • become technically sound to handle the advance analytical instruments. • intensify their desire to contribute to the nation in the capacity of chemist or as innovator by taking up research career afterwards. • become well versed in the mechanisms of all types of high level and complicated chemical reactions.
DEPARTMENT OF ZOOLOGY	
B.Sc. ZOOLOGY	
Programme Outcome	This program develops competence in basic sciences and in the content of the specific courses that constitute the principal knowledge of their degree, acquire the skills in handling scientific instruments, planning and performing in laboratory experiments.
Programme Specific Outcome	A candidate after successful completion of B.Sc. degree in Zoology is able to

	<ul style="list-style-type: none"> • develop a broad foundational knowledge of the faunal diversity especially local fauna, pattern of evolution, morphological features, adaptation and classification • analyze the relationship between plants, animals, microbes and deal with the local, national and global environmental issues. • understand the basic concepts in cell biology, biochemistry, genetics, evolution, immunology, statistics and physiology. • understand the application of biological sciences in aquaculture, apiculture, vermiculture and agricultural pest management.
M.Sc. ZOOLOGY	
Programme Outcome	This program develops scientific information through effective formal and informal methods generally used in sciences, develop the competence in basic sciences in the content of the specific courses and improve basic scientific research ability to provide inputs for societal benefits
Programme Specific Outcome	<p>A candidate after successful completion of M.Sc. degree in Zoology is able to</p> <ul style="list-style-type: none"> • connect and apply biological knowledge to other disciplines and to integrate knowledge into their personal and professional lives. • illustrate zoological science for its application in branches like medical entomology, apiculture, aquaculture and agriculture etc. • understand animal interactions with the environment and identify the major groups of organisms with an emphasis on animals and classify them within a phylogenetic framework. • explain the origin of life with context to the origin of eukaryotic cell and endosymbiotic theory of origin, fossil records.
DEPARTMENT OF TAMIL	
B.A. TAMIL	
Programme Outcome	This program develops a strong foundation and wider knowledge of the language. It develops Grammar and helps to know the history of literature, culture of Tamil Nadu and Journalism knowledge in students.
Programme Specific Outcome	<p>A candidate after successful completion of B.A. degree in Tamil is able to</p> <ul style="list-style-type: none"> • develop language and communicative skills. • develop aesthetic sense to appreciate literature and life. • live a purposeful life as reflected through literature. • understand the art involved in writing short stories and novels.
DEPARTMENT OF ENGLISH	
B.A. ENGLISH	

Programme Outcome	This program develops intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.
Programme Specific Outcome	A candidate after successful completion of B.A. degree in English is able to <ul style="list-style-type: none"> • acquire both oral and written communication. • learn Grammar and its usage. • develop fluency in English. • learn its linguistic structures. • apply critical frameworks to analyze the linguistic, cultural and historical background of texts written in English. • be familiar with the conventions of diverse textual genres including fiction, non-fiction, poetry, autobiography, biography, Journal, film, plays, editorials etc.
M.A ENGLISH	
Programme Outcome	The programme enhances the critical thinking of students. The programme hones the language skills of students by introducing the structure of language through a various literary genres. The programme cultivates the conventions of academic writing in students.
Programme Specific Outcome	By the end of the programme, the students critically interact with works from different perspectives – social, political, cultural, economic, historical and national. The students become thorough with reading works with theoretical sense. The students become capable of interpreting and exploring the uniqueness of language and literature through imagination.
DEPARTMENT OF COMPUTER SCIENCE	
B.Sc. COMPUTER SCIENCE	
Programme Outcome	This program develops the ability to design, implement, and evaluate a computer-based system, process, component or program to meet desired needs with an understanding of professional, ethical, legal, security, social issues and responsibilities.
Programme Specific	A candidate after successful completion of B.Sc. degree in Computer

Outcome	<p>Science is able to</p> <ul style="list-style-type: none"> • implement all theoretical concepts in practical which make a student industry ready.. • become an entrepreneur • go for higher level courses in computer science. • support automation and digitization in all walks of life
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DEPARTMENT OF INFORMATION TECHNOLOGY

B.Sc. INFORMATION TECHNOLOGY

Programme Outcome	This program develops the skills and knowledge for appropriate professional positions in information technology, develop the skills in planning, implementing, configuring and maintaining in an organization's computing infrastructure
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Programme Specific Outcome	<p>A candidate after successful completion of B.Sc. degree in Information Technology is able to</p> <ul style="list-style-type: none"> • apply knowledge in mathematics, science fundamentals to solve problems. • design, and analyze precise specifications of algorithms, procedures, and interaction behavior. • apply the technologies in various fields of IT, including Mobile applications, Web site development and management, databases, and computer networks. • select appropriate techniques to tackle and solve problems in the discipline of information security management.
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DEPARTMENT OF COMPUTER APPLICATIONS

B.C.A.

Programme Outcome	This program develops the students as effective professionals in solving real problems through the use of computer science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills. Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields.
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Programme Specific Outcome	<p>A Candidate after successful completion of B.C.A. degree is able to</p> <ul style="list-style-type: none"> • understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, application program, database, graphics and networking. • recognize the need for and an ability to engage in continuing professional development. • use current techniques, skills, and tools necessary for computing
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	<p>practice.</p> <ul style="list-style-type: none"> • function effectively in teams to accomplish a common goal.
DEPARTMENT OF PHYSICS	
B.Sc. PHYSICS	
Programme Outcome	This program develops a conceptual understanding of physics principles and develop the ability to justify and explain their thinking or approach both written and oral.
Programme Specific Outcome	<p>A candidate after successful completion of B.Sc. degree in Physics is able to</p> <ul style="list-style-type: none"> • acquire core knowledge in physics, including the major areas of classical mechanics, quantum mechanics, electromagnetism, optics, electronics, modern physics and microprocessors • realize and develop an understanding of the impact of physics and science on society. • develop the proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data. • take measurements in a physics laboratory and analyze the measurements to draw valid conclusion.
DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATION	
B.Com. (C.A.)	
Programme Outcome	This program develops a deeper understanding of both Computer Application and Commerce, thereby enabling the budding graduates to pursue careers in either of the two fast-growing areas, viz. IT Industry, Commerce, and Financial sector.
Programme Specific Outcome	<p>A candidate after successful completion of B.Com. (C.A.) degree is able to</p> <ul style="list-style-type: none"> • become efficient in office automation with computers and computer software applications. • get hands-on work experience through internship in Corporate Sector.. • go for professional courses like MBA, CA, ICWA, LLB etc., • be a well trained professionals for the technology and allied industries to meet the well trained manpower requirements.
M.Com. (C.A.)	
Programme Outcome	This program develops the students to design solutions for economic problems and design software, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Programme Specific Outcome	<p>A candidate after successful completion of M.Com. (C.A.) degree is able to</p> <ul style="list-style-type: none"> • improve theoretical knowledge and problem solving ability of the students. • acquire good knowledge of Commerce along with basic computer skills required to flourish in their career. • start their own Small Scale software business. • undergo Professional Courses like MBA, CA, ICWA, ICS etc., and also ensures bright future in the IT fields, Software, Banks, Companies, BPOs and KPOs.
DEPARTMENT OF MATHEMATICS WITH COMPUTER APPLICATION	
B.Sc. MATHEMATICS (C.A.)	
Programme Outcome	This program develops critical thinking skills to solve problems that can be modeled mathematically, to critically interpret numerical and graphical data, to read and construct mathematical arguments and proofs, to use computer technology appropriately to solve problems.
Programme Specific Outcome	<p>A candidate after successful completion of B.Sc. degree in Mathematics (C.A.) is able to have a</p> <ul style="list-style-type: none"> • strong foundation for a wide choice of careers and particularly careers requiring problem solving abilities • strong foundation for higher Education in Mathematics. • sound knowledge required to prepare for competitive examinations for career opportunities. • career related to mathematical sciences or in post -baccalaureate studies.
DEPARTMENT OF ECONOMICS	
B.A ECONOMICS	
Programme Outcome	This Programme provides students a well-founded education in Economics. It also prepares the students for employment and further study as Economists. It provides students with the opportunity to pursue courses that emphasize quantitative and theoretical aspects of Economics.
Programme Specific Outcome	<p>A candidate after successful completion of B.A degree in Economics is able to have a</p> <ul style="list-style-type: none"> • strong foundation for applying supply and demand analysis to examine the impact of Government regulations. • Sound knowledge regarding the formulation of broad economic

	<p>policies that maximize the level of National income, providing economic growth, full employment, price stability, increasing productivity in the long run.</p> <ul style="list-style-type: none">• Idea about the systematic development of economic theories beginning from pre-modern and modern era.
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SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI

Department of Tamil (Aided)

Course Outcome

Subject Code	Course Name	Course Outcome
UTMJL11	பழந்தமிழ் இலக்கியமும் உரைநடையும்	<p>கூறு : 1 - சங்க இலக்கிய மரபுகளைப் புரிந்துகொண்டு வாழ்வியலில் செயல்படுத்துதல்.</p> <p>கூறு : 2 - நீதிக் கருத்துக்களைக் கூறுவதன் மூலம் நல்வழிப்படுத்துதல்.</p> <p>கூறு : 3 - வாசிப்புத்திறனுடன் எழுத்துக்களைப் பிழையின்றிப் பேசவும் எழுதவும் கற்றுக் கொடுத்தல்.</p> <p>கூறு : 4 - இலக்கணப் பிழையினால் வரும் சொல் மாற்றங்களின் வேறுபாடுகளை உணர்த்துதல்</p> <p>கூறு : 5 - பண்டைய மக்களின் வீரம், (காதல்) அன்பு வாழ்வியல் பண்புகளைத் தெளிவுபடுத்துதல்/ தன் விபரக் குறிப்பு எழுதப் பழகுதல்.</p>
UTMJL21	காப்பிய இலக்கியமும் நாடகமும்	<p>கூறு : 1 - காப்பியங்களின் மூலம் புராணச் செய்திகளை அறியச் செய்தல்.</p> <p>கூறு : 2 - நாடகத்தின் மூலம் நல்ல கருத்துக்களை எடுத்துக் கூறுதல்.</p> <p>கூறு : 3 - கிறித்தவ, இசுலாமிய இலக்கியங்களில் கூறப்பட்டுள்ள சிறப்புகளைத் தெரியப்படுத்துதல்.</p> <p>கூறு : 4 - பா வகைகள், அணி இலக்கணங்களின் மூலம் அழகிய சொற்களை (கற்பனையுடன் கூடிய) வாக்கியங்களைப் படைத்தல்.</p> <p>கூறு : 5 - ஐம்பெரும், ஐஞ்சிறுகாப்பியங்கள்வழி சமயச் சிந்தனைகளையும் நீதிக் கருத்துக்களையும் கூறுதல். கடிதம் எழுதும் முறைகளைத் தெரிந்து கொள்ளச் செய்தல்.</p>
UTMJL31	இடைக்கால இலக்கியமும் புதினமும்	<p>கூறு : 1 - பக்தி இலக்கியத்தின்வழி அறிவுசார்ந்த நல்ல கதைகளின் மூலம் (இதிகாசம்) நல்வழிப் படுத்துவதற்கான கருத்துக்களைக் கூறுதல்.</p> <p>கூறு : 2 - சித்தர் பாடல்கள் மூலம் மன ஒருமைக்கு வழி காட்டுதல். மருத்துவ குணநலன்களை எடுத்துரைத்தல்.</p> <p>கூறு : 3 - படைப்பாளர்களின் கதைகளின்வழி படைப்புத் திறனை வளர்த்தல்.</p> <p>கூறு : 4 - சொல் வேற்றுமைகளின் பொருளறிந்து வாக்கியம் அமைக்கச் செய்தல்.</p> <p>கூறு : 5 - சமயம் சார்ந்த நிலையில் தமிழின் வளர்ச்சி நிலைகள் அறம், பொருள், இன்ப, வீடுபேறு நிலைகளையும் எடுத்துரைத்தல். பிறரைப் பேட்டிகாணப் பயிற்சி தருதல்.</p>
UTMJL41	இக்கால இலக்கியமும் சிறுகதையும்	<p>கூறு : 1 - மரபுக் கவிதைகள் மூலம் மொழிப் பற்றையும் நாட்டுப்பற்றையும் உணர்த்துதல்.</p> <p>கூறு : 2 - இன்றைய சூழ்நிலைகளை அடிப்படையாகக் கொண்டு புதுக்கவிதை படைக்கச் செய்தல்.</p> <p>கூறு : 3 - சிறுகதைகளின் மூலம் சமூகச் சிந்தனைகளை</p>

		<p>உருவாக்குதல். சிறுகதைகள் எழுதப் பயிற்சி தருதல். ஒருமுகச் சிந்தனை உருவாக்கம். அழகிய சொற்களை (கற்பனையுடன் கூடிய) வாக்கிங்களைத் தெரியப்படுத்தல்.</p> <p>கூறு : 4 - அடிப்படை இலக்கணம் தெரிதல். எழுத்துக்களைக் கொண்டு சொற்களை உருவாக்குதல். பிறமொழிச் சொற்களைக் கண்டறிதல். (இன்றைய சிந்தனைக்கு) கரும்பலகையில் எழுதப் பயிற்சி தருவது.</p> <p>கூறு: 5 - மரபுக்கவிதை, புதுக்கவிதை, சிறுகதை ஆகியவற்றின் தோற்றமும் வளர்ச்சியையும் அறியச்செய்தல்</p>
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சைவபானு சத்திரிய கல்லூரி - அருப்புக்கோட்டை

தமிழ்த்துறை(Aided)

தமிழ் இலக்கிய வரலாறு - I

Subject Code:ATMJN51

Course Outcome

கூறு 1 - புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு

- ✿ இலக்கிய நூல்களின் தோற்றமும், வளர்ச்சியும்
- ✿ புலவர்களின் வாழ்க்கை வரலாறு
- ✿ தேசிய பண்பாடு மற்றும் கலை வரலாறு
- ✿ மொழி வரலாறு, போன்றவற்றை அறிய முடிகிறது.

கூறு 2 - தமிழக வரலாற்றுப் பின்புலம்

- ✿ தமிழகம் மற்றும் தமிழ் மக்கள்
- ✿ பல்வேறு காலகட்டங்களில் தமிழகத்தின் எல்லைகள்.
- ✿ பேரரசு மற்றும் இன அரசுகள்
- ✿ இந்திய நாகரீகத்தில் தமிழரின் பங்கு
- ✿ தமிழ் மொழிக் கட்டமைப்பு
- ✿ தமிழில் கலந்த வேற்று மொழிகள், முதலியவற்றை அறிய உதவுகிறது.

கூறு 3 தொல்காப்பியம்

- ✿ தமிழில் கிடைத்த முதல் இலக்கண நூல்
- ✿ தொல்காப்பியரைப் பற்றிய குறிப்புகள்
- ✿ இயல் பாகுபாடு, திணைப் பாகுபாடு, நிலப்பாகுபாடு போன்றவற்றை கற்க முடிகிறது.

கூறு 4 சங்க இலக்கியம்

- ✿ முச்சங்கங்கள் மற்றும் அதன் வரலாறு
- ✿ பாண்டிய மன்னர்களும் - தமிழும்
- ✿ சங்கநூல்கள் - அதன் வகை தொகைகள்
- ✿ பண்டைத் தமிழரின் அகவாழ்க்கை, புறவாழ்க்கை
- ✿ தமிழரின் பண்பாடு, கலாச்சாரம், பழக்க வழக்கம், சமுதாய கட்டமைப்புகள்
- ✿ நிலத்தின் அடிப்படையில் அமைந்த திணைப் பாகுபாடுகள்

- ✿ புலவர்கள் மற்றும் புரவலர்கள் முதலிய செய்திகளை நன்கு அறிய முடிகிறது.

கூறு 5 நீதி இலக்கியம்

- ✿ நீதி நூல்கள் தோன்றிய காலம்
- ✿ நீதி நூல்களின் வகை தொகை
- ✿ பல்வேறு சமயங்களின் நீதிக் கோட்பாடுகள்
- ✿ அறம் மற்றும் ஒழுக்கத்தின் அவசியம்
- ✿ திருக்குறளின் பெருமை, போன்றவற்றை கற்க உதவுகிறது

கூறு 6 காப்பிய இலக்கியம்

- ✿ ஐம்பெருங் காப்பியங்கள், ஐஞ்சிறு காப்பியங்கள், பல்வேறு புராணங்கள்
- ✿ சமண, புத்த சமயங்களின் கோட்பாடுகள்.
- ✿ இதிகாசங்களைத் தழுவி எழுதப்பட்ட நூல்கள்
- ✿ பெண்கள் கடவுளாக பார்க்கப்பட்ட நிலை முதலிய பல்வேறு செய்திகளை அறிய முடிகிறது

கூறு 7 பக்தி இலக்கியம்

- ✿ சைவ, வைணவ சமயக் கோட்பாடுகள்
- ✿ பன்னிரு திருமுறைகள்
- ✿ நாலாயிர திவ்ய பிரபந்தம்
- ✿ நாயன்மார்கள் மற்றும் ஆழ்வார்களின் வாழ்க்கைச்சரித்திரம், போன்றவற்றை தெளிவாக அறிய முடிகிறது.

சைவபானு சத்திரிய கல்லூரி - அருப்புக்கோட்டை

தமிழ்த்துறை(Aided)

தமிழ் இலக்கிய வரலாறு - II

Course Outcome

கூறு 1 - சிற்றிலக்கியம்

- ✦ சிற்றிலக்கிய நூல்களின் வகை தொகைகள்
- ✦ சிற்றிலக்கிய நூல்கள் தோன்றிய காலம்
- ✦ புகழ் பெற்ற சிற்றிலக்கிய நூல்கள் - எழுதிய புலவர்கள்
- ✦ சிற்றிலக்கியத்தின் பிற்கால வளர்ச்சி, முதலியவற்றை அறிய உதவுகிறது..

கூறு 2 - தமிழ் இலக்கண வகை

- ✦ ஐந்து வகை இலக்கணங்கள்
- ✦ பாட்டியல் நூல்கள்
- ✦ நிகண்டுகள் போன்றவற்றை அறிய உதவுகிறது.

கூறு 3 தத்துவ இலக்கியமும் தத்துவ நூல்களும்

- ✦ திருமூலர், பட்டினத்தார், தாயுமானவர், இராமலிங்க வள்ளலார் போன்றோரைப் பற்றிய செய்திகள்
- ✦ பதினெண் சித்தர்கள் - அவர்கள் எழுதிய நூல்கள்
- ✦ சைவ சித்தாந்த சாத்திரங்கள், முதலிய செய்திகளை அறிய முடிகிறது.

கூறு 4 உரைவகை

- ✦ இலக்கண, இலக்கிய உரைகள்
- ✦ உரையாசிரியர்கள்
- ✦ நாலாயிர உரைகள், சரித்திர உரைகள், மணிப்பிரவாள உரைகள் போன்றவற்றை அறிய முடிகிறது.

கூறு 5 இசை நாடக இலக்கியம்

- ✦ இசைத்தமிழ் - நாடகத்தமிழ்
- ✦ பள்ளு, குறவஞ்சி நாடகம், நொண்டி நாடகம், கீர்த்தனை நாடகம்.
- ✦ நாடக ஆசிரியர்கள், நாடக சபைகள், பற்றி அறிய முடிகிறது.

கூறு 6 சமய நோக்கு வகைகள்

- ✿ சமணம், பௌத்தம், சைவம், வைணவம், இசுலாமியம், கிறிஸ்துவம் ஆகியவை தமிழுக்கு ஆற்றிய தொண்டுகள்.
- ✿ சைவத் திருமடங்கள் பற்றிய செய்திகளை அறிய முடிகிறது.

கூறு 7 மறுமலர்ச்சி இலக்கியம்

- ✿ உலகத் தமிழிலக்கியம்
- ✿ திராவிட இயக்க இலக்கிய வளர்ச்சி
- ✿ தேசிய தமிழ் இலக்கிய வளர்ச்சி
- ✿ கவிதை, கதை, கட்டுரை, உரைநடை வளர்ச்சி, போன்றவற்றை தெளிவாக அறிய முடிகிறது.

“தமிழ் இலக்கிய வரலாறு” எனும் இத்தாளை சிறப்புப் பாடமாக பயிலும் மாணவர்கள் போட்டித் தேர்வுகளில் சிறந்த மதிப்பெண் பெற்று தேர்ச்சி அடைய பெரிதும் உதவுகிறது.

SAIVA BHANU KSHATRIYA COLLEGE, Aruppukottai

Department of English

Course Outcome - Part II English

COMMUNICATIVE ENGLISH – I

1. Read and comprehend English
2. Learn interpersonal communication
3. Narrate personal experiences
4. Know the fundamentals of effective communication

COMMUNICATIVE ENGLISH – II

1. Acquire good reading skill
2. Comprehend and think in English
3. Apply the basic grammatical rules learnt from the prescribed text
4. Know the importance of soft skills and learn to face an interview

COMMUNICATIVE ENGLISH – III

1. Apply the basic grammatical rules and be able to attend competitive examinations
2. Use subject and verb in agreement
3. Learn to appreciate poems and novel
4. Become aware of the nuances involved in acquiring the skills related to listening, speaking, reading, and writing.

COMMUNICATIVE ENGLISH – IV

1. Apply the basic grammatical rules
2. Know the fundamentals of effective communication
3. Learn to overcome real-life communication challenges
4. Appreciate the language with the help of the prescribed play

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI.

PG DEPARTMENT OF HISTORY

B.A HISTORY COURSE OUTCOME (2021 – 2022)

I B.A HISTORY :

I SEMESTER

1. HISTORY OF INDIA UPTO 900 A.D

AHSJC11

- **On the completion of the course the students will be able to appear for the Competitive Examination**
- **The Students they acquire knowledge of features of Early Civilization**
- **Acquire values of various Indian Religion.**
- **Get awareness of the sources and its importance in Indian History**
- **Understand the rich Heritage of Indian Culture**

2. HISTORY OF TAMILNADU SANGAM AGE TO 1565 A.D

AHSJC12

- **The Students will be able to appear for the Competitive Examination**
- **The course provided the geographical divisions, Cultural, Political and Economic condition of the Tamil since the Sangam age onwards.**
- **The Architectural style and glory of the Tamil is clearly point out in the course of the History of Tamilnadu Sangam age upto 1565 A.D.**
- **They understood the rich heritage of Tamil Culture.**

3. AS – MODERN GOVERNMENTS – I

AHSJA11

- **Students have to understand the development of democratic institutions in India.**
- **The basic concept of Constitution was known to the students.**
- **The knowledge of various constitution in various countries were infused in the minds of the Students.**
- **It trained the students to the competitive examinations also.**

4. VALUE EDUCATION

UVEJV11

- **It created a good citizens for future India.**
- **Student understood the religious values of various Religions of the world.**
- **It enhanced the Religious harmony in the minds of the students as well as the Society**
- **The study of role models enhance their moral values.**

5. PROFESSIONAL ENGLISH – SREAM- C

UPCLP11

- It enrich the personality development of the students such as vocabulary development, reading ability, sentence making, communicative skills.
- It enhance the knowledge of the soft skills.

II SEMESTER

1. HISTORY OF INDIA 900 TO 1761 AD

AHSJC21

- The Students will be able to appear for the Competitive Examinations.
- Analyse the contribution of Muslim rulers.
- Understand the fusion of Hindu Muslim Culture.
- To know contribution of the Mughals to art and Architecture.

2. HISTORY OF TAMILNADU 1565 – 1947 A.D

AHSJC22

- On Studying the course the student understand the historical significance of the Tamil People.
- The students can know about socio, economic, culture and architectural contribution of the Tamil people.
- The students can appear for the Competitive examinations.

3. AS- MODEN GOVERNMENTS – II

AHSJA21

- The Students acquire knowledge about the working of the public institutions.
- The Students enable to prepare for the Competitive examinations
- Study the administration of the Government machinery.

4. ENVIRONMENTAL STUDIES

UESJD21

- Create awareness among the public about environment- (CFC gas affected Ozone layer- Global warming , pollution, sustainable development, disaster management)
- Study the importance of Eco – system
- Students can understand to create a green world.
- They protected and improved the natural environments.

5. PROFESSIONAL ENGLISH = STREAM – C

UPCLP21

- The Students can able to communicate others in English language
- The students practice the sentence making.
- It boosts the students to face an Interview in a proper manner.

II B A HISTORY

III SEMESTER

1. HISTORY OF INDIA 1761 – 1947 A.D

AHSJC31

- **The students have to abide by the constitution The National Flag and The National Anthem.**
- **The students have cherished the noble ideas of National struggles of Freedom.**
- **It is an eye opener to root out the superstitious beliefs in the minds of the students.**
- **Since the advent of Europeans what are the circumstances prevailed in India till 1947 were known to them.**
- **To sacrifice of our freedom fighters and the glory of our nation infused the patriotic fervour among the students.**
- **Every Students knew the political and social impact of the arrival of the Europeans.**

2. CONTEMPORARY HISTOY OF TAMILNADU 1947 – 2006 A.D AHSJC32

- **Able to appear for the Competitive Examination**
- **Know the knowledge of political , economical conditions.**
- **The Students can identify social schemes, issues and social welfare measures such as Health, Education and Women Empowerment in Tamil Nadu.**
- **Understand the social , economic and humanitarian achievements of the Chief Ministers of Tamil Nadu.**

3. SBS – PANCHAYAT RAJ

AHSJS31

- **The Students will be able to demonstrate through understanding of Panchayat Raj system and its different layers.**
- **The Students have to understand the importance of Village administration and the Panchayat Raj.**
- **The people representation and the idea of decentralisation was known to the Students.**
- **Government schemes for employment opportunities and socio welfare activities were known to them.**

IV SEMESTER

1. CONTEMPORARY HISTOY OF INDIA 1947 – 2005 A.D **AHSJC41**

- **It guide the students to become the responsible citizens.**
- **They realized the development of Independent India.**
- **The Students prepared for the Competitive examinations by gaining knowledge from current affairs.**
- **They understood the rich heritage of India.**

2.HISTORY OF EUROPE 1453 – 1789 A.D **AHSJC42**

- **To ensure the job opportunities to the students in the State and Central sectors.**
- **It indicates the Students community to understand the impact of Renaissance and Reformation.**
- **The Students acquire the knowledge about the achievements of the enlightened despots.**

3. SBS – JOURNALISM **AHSJS41**

- **The Students understood the importance of Job Opportunities.**
- **The course Journalism creates awareness among the Students about values of the 4th pillar of the Indian democracy**
- **It ensure job opportunity to the Students.**

III B A HISTORY

V SEMESTER

1. HISTORY OF EUROPE 1789 – 1919 A.D **AHSJC51**

- **To ensure the job opportunities to the students in the State and Central sectors.**
- **The Students understood the world wide Historical impact of various revolutions in the world**

2. HISTORY OF WORLD CIVILIZATION **AHSJC52**

- **Understand the definition and factors influencing th growth of Civilization**
- **Understand difference between Civilization and Culture.**
- **Get sufficient knowledge about Roman laws and legacy in the field of art and architecture.**
- **Acquire knowledge about the teachings of Hinduism , Christianity, Islam and Confucianism etc.,**

3. ELEMENTS OF HISTORIOGRAPHY **AHSJC53**

- **The Students can analyse the research contributions of Historians and research techniques in History**
- **Understand the methodology of historical writing.**
- **The Students have made themselves capable of writing thesis to historical perspective.**

4. HISTOY OF USA FROM COLONISATION TO 1865 A.D **AHSJC54**

- The Students understood the historical background of the USA.
- The course has provided basic knowledge to the students to understand the slavery system and its effect.
- The Students understand the various programmes of different Presidents.

5. ES- HISTORY OF SCIENCE AND TECHNOLOGY

AHSJA53

- Students have understood the ancient ,medieval development of science and technology.
- The course has provided basic knowledge to the students to understand use of science and technology to enhance.
- It develop the scientific temper of the Students.
- The course enhanced the basic knowledge of the students to understand the use of Science and Technology.

6. SBS – ARCHIVES KEEPING

AHSJS51

- Studying this subject the students know the origin of Archives in Ancient Period.
- The Students can understand the development of Archives.

7. NME- FREEDOM MOVEMENT IN INDIA SINCE 1801 AD

AHSJN51

- The students have understand the take that all the people of India Irrespective of Religion, Caste , Gender,Status , Languagea and Regions fought for the freedom of India.
- By studying this subject the students have realised the value of freedom which has induced them to be the patriotic citizens of Independent India.

VI SEMESTER

1. HISTORY OF THE MODERN WORLD (1919 – 1991 A.D)

AHSJC61

- The Students can understand the causes for the formation of UNO and its humanitarian achievements.
- Gain knowledge on the causes of the middle east problems.
- Acquire knowledge about the power politics of the world countries.

2. HISTORY OF THE USA 1865 – 1945 A.D

AHSJC62

- The Students have understood historical significance of United States of Ameica
- The course has provided basic knowledge to the students to understand about the growth of USA as world power.

3.ES – CONSTITUTIONAL HISTORY OF INDIA 1773 – 1950 AD

AHSJA61

- On studying this subject the students have understood constitutional development of India during the British rule.
- By studying the subject the students have to understood development of democratic institutions in India

4. ES – TOURISM IN INDIA

AHSJA64

- **The Origin and the importance of Tourism was taught to the Students.**
- **The Students create awareness about the historical monuments and National heritage in the minds of the Students.**
- **The Job opportunities in the field of the Tourism was known**

5. SBS – INDIAN ARCHITECTURE

AHSJS61

- **The students have understood the historical significance of Architecture in the history of India.**
- **The course has induced the students to protect the monuments of India thereby to be proud of Indian Cultural Heritage.**
- **The course has created employment opportunities to the students as guides the department of Tourism.**

6.SBS – EPIGRAPHY

AHSJS62

- **The Students know the importance of epigraphic evidence as the primary source of History.**
- **Through the course “ Epigraphy” the students understand the origin and evolution of the script.**
- **This course teach the technical know to estampage the inscriptions.**

7.SBS – INTELLECTUALS OF INDIA

AHSJS63

- **The students understood the value of freedom and martyrs of our Freedom Movement.**
- **Role of socio- religious reform movements in our freedom struggle was clearly teach to the students.**
- **Achievement of women leaders also clearly stressed in the minds of the youth.**

8. NME – CONSTITUTION OF INDIA

AHSJN61

- **On studying this subject the students have understood constitutional development of India during the British rule.**
- **By studying this subject have to understand development of democratic institutions in India.**

SAIVA BHANU KSHATRIYA COLLEGE
ARUPPUKOTTAI

PG DEPARTMENT OF HISTORY
COURSE OUTCOME

SEMESTER- I

1. State and Society of Tamil Nadu Up to A.D 1565 **CODE: THSJC11**

Course Outcome:

1. On studying the course entitled “State and Society of Tamil Nadu upto A.D 1565”, the students have understood historical significance of ancient Tamil country.
2. The course has provided basic knowledge to the students to carry out research works in the field on Ancient Tamil country.

2. Socio-Economic History of India up to A.D **CODE: THSJC12**

Course Outcome:

1. On studying the course entitled “Socio Economic History of India upto A.D 1206”, the students have understood historical significance of ancient Indian society.
2. The course has provided basic knowledge to the students to understand about ancient Indian cultural heritage.

3. History of the United States of America from A.D 1776-1865 **CODE:THSJC13**

Course Outcome:

1. On studying the course entitled “History of the United States of America upto A.D 1865”, the students have understood historical significance of United States of America.
2. The course has provided basic knowledge to the students to understand about slavery system and its effects.

4. International Relations from A.D 1914 – 1945 **CODE: THSJC14**

Course Outcome:

1. On studying the course entitled “International Relations from A.D 1914 to 1945”, the students have understood historical significance of international politics.
2. The course has provided basic knowledge to the students to understand about growth of USA as world power.

5. History of Science and Technology

CODE: THSJT11

Course Outcome:

1. On studying the course entitled “History of Science and Technology”, the students have understood recent development of science and technology.
2. The course has provided basic knowledge to the students to understand about use of science and technology to enhance.

II SEMESTER

1. State and Society of Tamil Nadu from A.D 1565- 2000 **CODE: THSJC21**

Course Outcome

1. On studying the course entitled “State and Society of Tamil Nadu from A.D 1565 To 2000” the students have understood the historical significance of Tamil Nadu.
2. The course has induced the students to understand constitutional development in Tamil Nadu.

2. Socio-Economic History of India from A.D 1206 – 1857 **CODE: THSJC22**

Course Outcome

1. On studying the course entitled “Socio-Economic History of India A.D 1206 To 1857” the students have understood the historical significance of Tamil Nadu.
2. The course has induced the students to understand constitutional development in Tamil Nadu.

3. History of the United States of America from A.D 1865 -1945 **CODE: THSJC23**

Course Outcome:

1. On studying the course entitled “History of the United States of America from A.D 1865 to 1945”, the students have understood historical significance of United States of America.
2. The course has provided basic knowledge to the students to understand about growth of USA as world power.

4. International Relations from A.D 1945 – 2000 **CODE: THSJC24**

Course Outcome:

1. On studying the course entitled “International Relations from A.D 1945 to 2000”, the students have understood historical significance of international politics.
2. The course has provided basic knowledge to the students to understand about cold war and its effects.

5. Human Rights

CODE: THSJT21

Course Outcome:

1. On studying the course entitled “Human Rights”, the students have understood historical significance of Human Rights.
2. The course has provided basic knowledge to the students to understand about efforts of International organisations to safeguard Human Rights.

III SEMESTER

1.Historiography

CODE: THSJC31

Course Outcome :

1. After the completion of the course the students have made themselves capable of writing thesis in historical perspective.
2. Having understood the life and contribution of Contemporary Indian historians the students have understood the current status of Modern Indian Historiography.
3. The students can make use of computers for the collection of Library and Archival Materials.

2. Freedom Struggle in India A.D 1800 – 1947

CODE: THSJC32

Course Outcome:

- 1.On studying this subject the students have understood the fact that all the people of India irrespective of Religion, Caste, Gender, status, Languages and Regions fought for the freedom of India.
- 2.By studying this subject the students have realized the value of freedom which has induced them to be the patriotic citizens of Independent India.

3. Constitutional History of England from A.D 1603 – 2000

CODE: THSJC33

Course Outcome:

- 1.On studying this subject the students have understood Historical significance of British parliament.
2. By studying this subject the students have to understand the main features of Parliamentary form of government and how it was developed in England.

4. Archives Keeping

CODE: THSJT32

Course Outcome:

1. On studying this subject the students have understood Archives and its importance.
2. By studying this subject the students have to understand role of Archives in historical research.

IV SEMESTER

1. Contemporary India from A.D 1947 – 2010

CODE: THSJC41

Course Outcome:

1. On studying this subject the students have understood modern trends of Indian History.
2. By studying this subject the students have to understand development of India in the field of science and technology especially in space research.

2. Constitutional History of India from A.D 1773 -1947

CODE: THSJC42

Course Outcome:

1. On studying this subject the students have understood constitutional development of India during the British rule.
2. By studying this subject the students have to understand development of democratic institutions in India.

3. History of Far East from A.D 1840 – 1964

CODE: THSJC43

Course Outcome:

1. On studying this subject the students have understood History of Far East.
2. By studying this subject the students have to understand development of China and Japan in Asian region.

4. Women Empowerment

CODE: THSJT41

Course Outcome:

1. On studying the course entitled “Women Empowerment”, the students have understood recent development of women in various fields.

COURSE OUTCOME
BACHELOR OF COMMERCE
I YEAR

Subject Name: Vaniga Kaditha Thodarpugal

Subject Code: UVTJL11

In this course the students will

- CO1: understand the importance of business correspondence and electronic mode of business correspondence
- CO2: acquire knowledge about the business correspondence, concept, drafting and e-mail utility and security.
- CO3: acquire knowledge about the trade enquiry correspondence, agency correspondence and insurance letters
- CO4: gain knowledge about the job related application.
- CO5: understand the concept of notice, importance, types of notice and features.

Subject Name: Marketing

Subject Code: CCRJC11

In this course the students will

- CO1: gain knowledge on the basics of marketing, approaches in marketing, its modern concepts and function.
- CO2: understand the product, modification, diversification and the development of new product.
- CO3: know the objectives of pricing, types and the factors affecting the pricing decisions.
- CO4: understand the channels of distribution, functions of retailing and wholesaling.
- CO5: know the concept of advertising, media selection and the criticism against advertising.

Subject Name: Financial Accounting –I

Subject Code: CCRJC12

In this course the students will

- CO1: learn the basic principles of Accounting
- CO2: gain the skill in the procedure for preparation of rectifying the errors and know to prepare cash book and bank Reconciliation statement
- CO3: understand the methods of making adjustments during the preparation of final accounts.
- CO4: get the procedure of preparing bill of exchange.

CO5: learn the various skill in the procedure for preparation of accounts from incomplete records.

Subject Name: Value Education

Subject Code: UVEJC11

In this course the students will

- CO1: understand the significance of individual values of life skill.
- CO2: know the values of Religion like Hinduism, Christianity, Islam, Buddhism, Jainism and Sikhism. Society like, socialism, secularism, social awareness, social integration and social justice
- CO3: understand the professional values like team spirit, honesty, competence development, transparency, respecting others and role of social institutions in value formation.
- CO4: learn about the constitutional values like sovereignty, socialism, secularism, democracy, liberty, equality, dignity of individual and Unity and integrity of nation
- CO5: gain the knowledge about the directive principles of state policy and fundamental duties.

Subject Name : Professional English-I

Subject Code: UPDLP11

In this course the students will

- CO1: gain the knowledge on the concept of listening, speaking, reading and writing, and developing stories with pictures
- CO2: understand the role play and tasks.
- CO3: get the learning in the brainstorming, and group discussions.
- CO4: acquire presentation skills.
- CO5: learn and nurturing critical thinking skills

Subject Name: Kapeedu –kotpadukalum Nadaimuraikalum Subject Code: UVTJL21

In this course the students will

- CO1: understand the concept and origin of insurance, nationalization of insurance sector, type of insurance, commencement of life insurance
- CO2: acquire knowledge of life insurance, procedures, premium payments and nominations
- CO3: understand the concept of marine insurance, types of marine insurance.
- CO4: get, awareness of fire insurance, types of insurance and factors of compensation.

CO5: receive knowledge about insurance regulations system and creation of IRDA and privatization of insurance.

Subject Name: Principles of Management

Subject Code: CCRJC21

In this course the students will

CO1: acquire the basic concept of management, functions and the assumptions of various theories of management

CO2: know the planning, forecasting and the decision making in management.

CO3: understand the concept of organization, centralization and decentralization of authority, delegation and merits of committee formation.

CO4: know the staffing and direction in management, direction, leadership qualities, communication and motivation in management,

CO5: learn co-ordination and controlling process in management.

Subject Name: FINANCIAL ACCOUNTING – II

Subject Code: CCRJC22

In this course the students will

CO1 : know the preparation of accounts of consignment transactions in the books of consignor and consignee.

CO2: gain the knowledge on the different accounting methods for joint venture like maintaining separate set books and not maintaining separate set of books and co-ventures accounts.

CO3: acquire the skill of preparing Average due date and Account current.

CO4: understand the concept and methods of providing depreciation under important methods.

CO5: gain the knowledge of the accounting procedure of Non-profit organization.

Subject Name: Environmental Studies

Subject Code: UESJD21

In this course the students will

CO1: get knowledge about earth structure and renewable and Non- renewable resources of the environment

CO2: learn the concept, structure and ecological pyramids of ecosystem and study on biochemical cycles.

CO3: get the reflection of biodiversity concept in India and functions of national bio-diversity conservation board.

CO4: gain the awareness of global warming and effects of multiple pollution, importance of ozone layer.

CO5: understand the sustainable development, disaster management system, road safety rules, role of colleges, teachers and students in various aspects.

Subject Name: Professional English-II

Subject Code: UPDLP21

In this course the students will

- CO1: get knowledge on the concept of communicative competencies -listening, speaking, reading and writing
- CO2: understand the persuasive communication.
- CO3: know the concept of digital competence - listening, speaking, reading and writing.
- CO4: gain the knowledge on the creativity, imagination and visual aids
- CO5: acquire the knowledge on the concept of workplace communication.

II YEAR

Subject Name: Banking Law and Practice

Subject Code: CCRJC31

In this course the students will

- CO1: reach the better understanding about banks and its relationship with customers.
- CO2: obtain complete knowledge on cheques, material alteration, crossing and endorsements
- CO3: get understanding about the rights, duties of payment and collecting bankers
- CO4: understand the general principles of lending, Types of advances in business.
- CO5: learn the basic knowledge about internet Banking, mobile banking, NEFT, RTGS

Subject Name: Fundamentals of Company Law

Subject Code: CCRJC32

In this course the students will

- CO1: get the knowledge on company's legislation and procedures.
- CO2: understand the different kinds of company.
- CO3: gain knowledge to prepare a prospectus
- CO4: know the modes of winding up of a company.
- CO5 learn the knowledge of meeting, agenda & proxy etc

Subject Name: Financial Accounting -III

Subject Code: CCRJC33

In this course the students will

- CO1: get the knowledge about computation of fire insurance claims, on sequential loss and application of average clause.
- CO2: know about computation of royalty and its accounting treatments.

- CO3: learn the knowledge on preparation of statement of affairs and deficiency accounts of insolvency persons and aware about self balancing system.
- CO4: understand the branch account, branch not keeping full system of accounting and departmental accounts, allocation of expenses
- CO5: acquire the knowledge about accounting for hire purchase transactions including default and installment purchase system.

Subject Name: Business Statistics

Subject Code: CCRJC34

In this course the students will

- CO1: learn about meaning, Functions, Importance, Limitations of statistics, Data Collection, Sources, primary, Secondary, Techniques, Census, Sampling, Classification, Presentation, Tabulation, Diagrammatic, Graphic.
- CO2: study about measure of central tendency and dispersion
- CO3: understand the Skewness and Correlation and Methods of studying Skewness and correlation
- CO4: be aware of Regression Analysis
- CO5: know the Analysis of Time Series, Components, Methods of determining Trend and Method of simple Average

Subject Name: Cost Accounting

Subject Code: CCRJC35

In this course the students will

- CO1: learn and understand the basic cost concepts, objectives, scope, classification of cost and preparation of cost sheet.
- CO2: get the knowledge about the various material control techniques like EOQ, Inventory turnover ratio, Pricing of material issues and the ascertainment of labour cost and various methods of remunerating labour.
- CO3: understand the allocation and apportionment of overhead expenses to various cost centre or department and various methods of re-apportionment of service department expenses to production departments.
- CO4: gain the knowledge about the various methods of costing like processing costing, Operating or Service costing.
- CO5: understand the concept of cost control and cost reduction and various techniques of cost reduction, concept of cost centres, profit centres, cost audit and financial audits

Subject Name: Fundamentals of Computer

Subject Code: CCRJS31

In this course the students will

- CO1: gain the knowledge about the basic components o the computer and working of each device
- CO2: understand the representation of data in computer
- CO3: get comparative knowledge about the assembly and high level programming language.
- CO4: understand the functions of operating system
- CO5: acquire the fundamentals of computer networking.

Subject Name: Auditing

Subject Code: CCRJC41

In this course the students will

- CO1: learn the objectives, types and procedure for auditing.
- CO2: understand the concept of vouching and duties of auditor as regards vouching.
- CO3: know about the auditor's duty as regards verification and valuation of assets and liabilities
- CO4: get the knowledge about the liabilities of auditor to different persons, qualification, appointment and removal of auditor.
- CO5: gain the complete knowledge on auditor's report

Subject Name: Business Mathematics

Subject Code: CCRJC42

In this course, the students will

- CO1: study Number systems and equations
- CO2: understand Elements of Set theory
- CO3: know the indices and logarithm
- CO4: come to know that commercial arithmetic
- CO5: be aware of determinants and matrices

Subject Name: Management Accounting

Subject Code: CCRJC43

In this course the students will

- CO1: learn and understand the basic concepts of management accounting – objectives, functions, advantages, limitations and various tools and techniques of management accounting
- CO2: acquire the concept of financial statement analysis, techniques used and use of different ratios
- CO3: understand the preparation of cash flow statements (as per revised standards) and cash budget

- CO4: gain the knowledge of marginal costing, concept of P/V ratio, BEP and managerial uses of marginal costing
- CO5: understand the various concepts of budgeting and budgetary control, classification and preparation of various budgets

Subject Name: Financial Accounting – IV

Subject Code: CCRJC44

In this course the students will

- CO1: get the knowledge about the basics of partnership accounting and maintenance of partner capital account.
- CO2: understand the various accounting treatments at the time of admission of a partner.
- CO3: know the various accounting treatment at the time of retirement and death of a partner.
- CO4: understand accounting procedure for amalgamation and sale to firm in the partnership firms.
- CO5: learn the accounting treatment at the time of Dissolution, Insolvency of partners

Subject Name: Service Marketing

Subject Code: CCRJC45

In this course the students will

- CO1: understand the theory and concept pertaining to service marketing.
- CO2: get the knowledge about Indian service sector .
- CO3: learn the skills in pricing services and service promotion .
- CO4: understand the service sports and service intermediaries as successful services marketer
- CO5: gain the knowledge about specialization in finance , banking ,health, education , telecommunication and consult any services

Subject Name: Goods and Services Tax

Subject Code: CCRJS41

In this course the students will

- CO1: learn about the basic concept of GST, its objectives and advantages
- CO2: get the knowledge on features of GST Law and the types of GST.
- CO3: learn the GST Council, its constitution and structure, and meetings of GST Council.
- CO4: acquaint with registration under GST and the persons liable for registration.
- CO5: know the computation of taxable value, value of taxable and exempted supply.

III YEAR

Subject Name: Financial Accounting –V

Subject Code: CCRJC51

In this course the students will

- CO1: gain the knowledge about the accounting of shares issue, forfeiture and Re-issue.
- CO2: understand the accounting for different methods of redemption of debentures.
- CO3: learn the accounting for underwriting of shares and the concept of profit or loss prior to incorporation and final accounts of companies.
- CO4: understand the different methods of valuation of Goodwill and Shares.
- CO5: understand the accounting for amalgamation absorption and Internal Reconstruction.

Subject Name: Business Law

Subject Code: CCRJC52

In this course the students will

- CO1: understand the legal principles and concept of business law.
- CO2: learn the legal performance of contract.
- CO3: understand the special contract for the bailment and pledge
- CO4: get the knowledge of various methods of creation of agency and the transfer of ownership.
- CO5: learn the rules regarding rights and duties of the seller and buyer.

Subject Name: Income Tax Law & Practice – I

Subject code: CCRJC53

In this course the students will

- CO1: learn basic things of assessment year, previous year, residential status and capital and revenue receipts.
- Unit2: know the various exempted incomes u/s 10, 10A, 10AA, 11, 12, 13, 13A
- Unit3: understand the computation of income under the head salary and house property.
- Unit4: know the computation of income under the head profits and gains from business or profession and depreciation and other deductions.
- Unit5: learn the computation of income under the head capital gains and income from other sources.

Subject Name: Entrepreneurship Development

Subject Code: CCRJC54

In this course the students will

- CO1: understand the concept of entrepreneurship, meaning, importance, role and types of entrepreneurship.
- CO2: get the knowledge about the factors affecting entrepreneurial growth and economic and non-economic factors.
- CO3: understand the institutions support to entrepreneurs from DIC, SISI, SIDCO, SIPCOT, SFC and other institutions.
- CO4: get the knowledge about the preparation of project, project identification.
- CO5: understand the project appraisal, various analysis

Subject Name: Business Environment

Subject Code: CCRJA52

In this course the students will

- CO1: understand the internal and external factors affecting business.
- CO2: learn the economic factors in business.
- CO3: know the role of government in business.
- CO4: understand the various social responsibilities of business
- CO5: acquire the knowledge on the different forms of foreign private investment and globalization.

Subject Name: Business Accounting

Subject Code: CCRJN51

In this course the students will

- CO1: understand the concept of book keeping and accountancy and classification of accounts
- CO2: get knowledge about the rules of book keeping and preparation of journal entries.
- CO3: learn about the preparation of various subsidiary books including cash book
- CO4: understand the preparation of ledger accounts and trial balance
- CO5: understand the preparation of final accounts of sole traders with simple adjustments

Subject Name: Export-Import Procedures and Documentation Subject Code: CCRJS51

In this course the students will

- CO1: get the knowledge about the basics of Export and Import policy, its aims and various schemes in EXIM Policy.
- CO2: understand the export procedures

- CO3: gain the knowledge on the export documents used in export.
- CO4: understand the import procedures.
- CO5: know the import documents used in import.

Subject Name: Labour Law

Subject Code: CCRJC61

In this course the students will

- CO1: understand the concept and object of industrial relation, reason for poor Industrial relation.
- CO2 gain the knowledge of origin and development of Trade union and role of trade unions in India.
- CO3: get the knowledge about the Industrial Dispute ACT and its importance.
- CO4: get the knowledge about the Collective Bargaining System and Factors influencing the collective bargaining system.
- CO5: gain the knowledge of Factories ACT, Payment of Wages ACT and Minimum Wages Act.

Subject Name: Income Tax Law & Practice – II

Subject code: CCRJC62

In this course the students will

- CO1: learn the clubbing of income, set-off and carry forward of losses and deduction from gross total income.
- CO2: know the assessment and tax liability of individual and Hindu Undivided family
- CO3: understand the assessment of and tax liability of partnership firms, Association of persons and Joint stock companies.
- CO4: learn the online filing of returns of income and TDS
- CO5: gain knowledge on deduction and collection of tax at source, advance payment of tax and tax credit and tax clearance certificate.

Subject Name: Retail Marketing

Subject Code: CCRJA62

In this course the students will

- CO1 understand the theory and concepts pertaining to retailing marketing.
- CO2: learn the consumer behaviour and types of consumer.
- CO3: know the strategies in the marketing and approaches.
- CO4: acquire the knowledge in supply chain management.
- CO5: understand the consumerism and ethics in retailing

Subject Name: Financial Markets and Services

Subject Code: CCRJA64

In this course the students will

- CO1: understand the financial system in India and its concept.
- CO2: know the features of developed money market, have knowledge on various forms of money market instrument.
- CO3: acquire the knowledge about the stock exchange its functions
- CO4: learn the merchant banking and its services including factoring and forfeiting
- CO5: understand the various forms of mutual funds, organization of the fund and net asset value.

Subject Name: MS -office and Tally Theory

Subject Code: CCRJS61

In this course the students will

- CO1: learn to create a MS Word document with various features of word formatting, editing, picture insertion, table insertion
- CO2: get the knowledge on MS Excel including editing ,inserting and deleting rows and columns , using formula , inserting graphs.
- CO3: learn creating MS Power point presentations with slide animations and effects
- CO4: know the basics of tally software, features of tally, creating, altering and shutting a company
- CO5: learn the ledger and group creation, to create, alter and delete a voucher and ledger entry

Subject Name: MS -office and Tally Lab

Subject Code: CCRJS6Q

In this course the students will be able to

- CO1: create a MS Word document with various features of word formatting, editing, picture insertion, table insertion
- CO2: create and work in MS Excel including editing, inserting and deleting rows and columns, using formula, inserting graphs.
- CO3: create MS Power point presentations with slide animations and effects
- CO4: create, alter and shut a company
- CO5: create various ledger and vouchers, and to enter voucher entries

Subject Name: Commerce Practical

Subject Code: CCRJS6P

In this course the students will

- CO1: understand the layout of business letter and various forms used in office.
- CO2: gain the knowledge of the partnership deed and company statement of affairs.
- CO3: learn the preparation of cost sheet and its registers
- CO4: know about the filling up of an account of various forms like, DD, cheque Deposit and money orders forms etc.
- CO5: get the knowledge on the different types of advertisement
- CO6: be trained to Fill up share & mutual funds application and certificate forms and dividend and proxy forms etc.
- CO7: learn about the filling up of Income tax, sales tax and refund of tax forms.

Subject Name: Advertising and Salesmanship

Subject Code: CCRJN61

In this course the students will

- CO1: gain knowledge on the basics of advertising and criticism against advertising.
- CO2: understand the various types of advertising media.
- CO3: know the concepts of salesmanship and criticism against salesmanship.
- CO4: understand the qualities of a successful salesman.
- CO5: know the concept of sources and remuneration of salesman.

COURSE OUTCOME
MASTER OF COMMERCE
I YEAR

Subject Name: Financial markets and services

Subject Code:TMCJC11

In this course the students will be able to

- CO1: acquire knowledge of financial system and its meaning and structure
- CO2: Understand the money market, securities market and related features.
- CO3: Obtain knowledge of share market, IPO, stock exchange and share trading.
- CO4: gain knowledge of merchant banking, guidelines of SEBI, mutual funds and venture capital.
- CO5: understand about the factoring and forfeiting, meaning, importance and advantages.

Subject Name: Advanced Financial Accounting

Subject code: TMCJC12

In this course the students will be able to

- CO1: know the accounting principles, Indian accounting standards and concepts
- CO2: understand the non-trading concern and incomplete records.
- CO3: understand the branch account, branch not keeping full system of accounting and departmental accounts, allocation of expenses and to provide Knowledge on accounting for hire purchase transactions including default and installment purchase system.
- CO4: learn the various accounting treatments at the time of admission of a partner, retirement and death of a partner.
- CO5: understand the accounting procedure for amalgamation, sale to firm, Dissolution and Insolvency of partners in the partnership firms.

Subject Name : Auditing and assurance

SubjectCode:TMCJC13

In this course the students will be able to

- CO1: explain the objectives, types and procedure for auditing.
- CO2: understand the concept of audit programme, audit files, internal audit duties of audit.
- CO3: understand the concept of vouching and duties of auditor as regards vouching.
- CO4: know the auditor's duty as regards verification and valuation of assets and liabilities and audit report.
- CO5: gain knowledge about the liabilities of auditor to different persons, qualification, appointment and removal of auditor.

Subject Name: Applied Cost Accounting

Subject Code: TMCJC14

In this course the students will be able to

- CO1: acquaint with the basic cost concepts, objectives, scope, classification and elements of cost, cost unit, cost centre and preparation of cost sheet
- CO2: know the various material control techniques like EOQ, Inventory turnover ratio, Pricing of material issues and the ascertainment of labour cost and various methods of remunerating labour. Understand the allocation and apportionment of overhead expenses to various cost centre or department and various methods of re-apportionment of service department expenses to production departments
- CO3: understand the cost accounting standards (CAS 1 to CAS 23)
- CO4: know the cost book keeping – accounts and ledger, integral accounts, reconciliation of cost accounting records with financial accounts
- CO5: learn the various methods of costing – job costing, batch costing, contract costing, process costing, operating or service costing.

Subject Name: Banking Technology

Subject Code: TMCJT11

In this course the students will be able to

- CO1: get the knowledge on the concept, evolution of banking technology
- CO2: understand the total framework of technology corporate and personal and ATM, debit, credit and smart card
- CO3: learn about the electronic fund transfer ECS, different method of E-payments RTGS and SWIFT
- CO4: gain knowledge about the data management networks, LAN, WAN, INET, INFINET and RBINET.
- CO5: get the knowledge on the data security measures and cyber issues in online transactions and cyber law.

Subject Name: Marketing Management

Subject Code: TMCJC21

In this course the students will be able to

- CO1: learn the basic concepts of marketing philosophies, marketing management process, marketing mix
- CO2: know the consumer behavior, market segmentation, targeting and positioning
- CO3: learn the concept of product mix, new product development, product life cycle
- CO4: know the pricing objectives and various methods of pricing

CO5: learn the various channels of distribution and functions of middlemen

CO6: understand the various marketing promotion strategies.

Subject Name: Company Law and Corporate Governance Subject Code: TMCJC22

In this course the students will be able to

CO1: know the procedure for formation of companies, appointment of board of directors, duties and remuneration.

CO2: learn the procedure for conduct of general meetings, documents to be submitted and various forms to be filed with RDC regarding general meeting

CO3: understand the law relating to accounts and audit, books of accounts to be maintained, appointment of auditors, powers and duties of auditors

CO4: know the law relating to declaration and payment of dividends, manner of payment

CO5: learn the corporate governance, corporate social responsibility, provisions of section 135 of the companies act 2013

Subject Name: Entrepreneurship Development and Project Financing

Subject Code: TMCJC23

In this course the students will be able to

CO1: understand the concept of entrepreneurship and factors affecting entrepreneurship and know the entrepreneurial competence, knowledge and functions.

CO2: gain the knowledge about the concept, functions, growth and schemes for women entrepreneurs

CO3: know the functions of various entrepreneurship development institutions like NAYE, SIPCOT, SSI financial assistance and commercial banks.

CO4: understand the process of enterprise building, project formulation and project report

CO5: be able to know the project appraisal, financial analysis and implantation of enterprise building

Subject Name: Financial Management

Subject Code:TMCJC24

In this course the students will be able to

CO1: understand the concept of financial management, functions and rate of financial manager.

CO2: know about nature, principles and techniques of preparing capital budget.

CO3: understand the concept of working capital and computation of working capital.

CO4: gain knowledge about the overall cost of capital and cost of capital for each sources of capital.

CO5: acquire knowledge on dividend policies, classification, theories of dividend decisions.

Subject Name: Advanced Business Statistics

Subject Code:TMCJT21

In this course the students will be able to

CO1: learn the Correlation and Regression Analysis

CO2: know the Analysis of Time series analysis and forecasting.

CO3: understand the Probability Analysis

CO4: practice the Hypothesis Testing

CO5: understand the Chi-Square Test, Goodness of fit test and F-test and analysis of variance.

II YEAR

Subject Name: Advanced Corporate Accounting and Reporting Subject

Code:TMCJC31

In this course the students will be able to

CO1: understand the preparation of final accounts of companies & corporate reporting.

CO2: know the calculation of profits prior to incorporation and valuation of Goodwill and Shares.

CO3: know the preparation of accounts of amalgamation, absorption and reconstruction and alteration of share capital

CO4: know the preparation of accounts of banking and insurance companies as per new norms and prepare the consolidated P&L a/c and Balance sheet.

CO5: understand the accounting price level changes and Human Resource Accounting.

Subject Name: Security analysis and portfolio management Subject Code: TMCJC32

In this course the students will be able to

CO1: understand the investment management, primary market and secondary market and SEBI in India.

CO2: know the security analysis, technical analysis and equity and bonds

CO3: know about the options and futures.

CO4: understand the portfolio management risk and return portfolio construction model and various theory

CO5: gain knowledge about portfolio process of evaluation, revision and formula plan constant ratio and variable ratio

Subject Name: Strategic and Human Resources Management Subject Code: TMCJC33

In this course the students will be able to

- CO1: understand the meaning of Human Resource Management
- CO2: know the Manpower planning
- CO3: understand the Employee Morale
- CO4: know the Workers participation in management
- CO5: understand be aware of the Trade union
- CO6: know the concept of Conflict and Performance analysis

Subject Name: Applied Direct Taxation and E-filing

Subject code: TMCJT31

In this course the students will be able to

- CO1: understand the introduction of Income Tax Act, residential status and incidence of income for individuals, HUF, firms and companies.
- CO2: know the computation of taxable income under the various heads.
- CO3: know the clubbing of income, set-off and carry forward of losses and deductions from gross total income.
- CO4: understand the advance tax and its various installments and penalty for not adhering to advance tax provisions and TDS provisions.
- CO5: know the various types of assessments, annual filing of returns and E-filing procedure.

Subject Name: Insurance and Risk Management

Subject code: TMCJN31

In this course the students will be able to

- CO1: learn the basic concepts of risks and its types.
- CO2: understand the risk management and the strategies in risk management.
- CO3: know about the life insurance, types of policies in life insurance, and annuity benefits.
- CO4: acquire the knowledge about marine insurance, types of policies in marine insurance.
- CO5: know about the fire insurance and reinsurance and double insurance concepts of fire insurance.

Subject Name: Research Methodology

Subject code: TMCJC41

In this course the students will be able to

- CO1: acquaint with the basic concepts of research and its types
- CO2: learn the research process and the meaning of literature review, hypothesis
- CO3: know about the various sampling methods and methods of data collection
- CO4: acquaint with editing, classification, coding, tabulation
- CO5: know to write report, characteristics, function, types and format of report

Subject Name: Operations Research

Subject code: TMCJC42

In this course the students know will be able to

- CO1 : know the introduction to Operations Research, linear programming and its formulation, assumptions and solutions to LPP.
- CO2: understand the transport and transshipment problems techniques.
- CO3: learn the assignment and travelling salesman problem.
- CO4: know the queuing theory and its terminology, game theory and its various strategies.
- CO5: understand the network analysis – PERT / CPM and simulation techniques.

Subject Name: Computerized Accounting and Office Automation Subject Code: TMCJC43

In this course the students will be able to

- CO1: understand the different types of office software used in computer and operating systems, understand use of word for text editing, text formatting, picture insertion, alignment, mail merging.
- CO2: get working knowledge on excel which includes cell editing, usage of formula and button function and drawing graphs etc.
- CO3: understand the PowerPoint presentation, insert picture table chart, and soon.
- CO4: know about the basics of tally and importance of tally in today's computerized environment and functions keys and short cut keys.
- CO5: know about the Accounting and Inventory vouchers, godown creation. And prepare final accounts, stock summary, cost category, day book in tally

Subject Name: Advanced Management Accounting

Subject code: TMCJC44

In this course the students will be able to

- CO1: understand the concept of Cost and Management Accounting and relationship between both.
- CO2: get clear understanding of break even analysis, cost analysis and decision making process.
- CO3: gain the knowledge about the budgeting, budgetary control, preparation of budget and types of budget.
- CO4: know about the analysis of different types of costing and knowledge about elements of costing
- CO5: understand the concept of cash flow statement.

Subject Name: Applied Indirect Taxation

Subject code: TMCJT41

In this course the students will be able to

- CO1: acquaint with the basic concepts of various types of indirect taxes.
- CO2: learn the customs duty and the problems in customs duty.
- CO3: know about the Central Goods and Services Tax (CGST), meaning of value of supply, persons eligible to register in CGST.
- CO4: gain the knowledge about the Integrated Goods and Services Tax (IGST), meaning of value of supply, persons eligible to register in IGST.
- CO5: know about the input tax credit, preparation of tax invoice and e-payment of tax.

PROGRAMME NAME: B.Sc. MATHEMATICS

Programme Outcome:

This program enable the students to get a relational understanding of mathematical concepts and the ability to analyze a problem, identify and define the computing requirements. It equip the students with mathematical modeling abilities, problem solving skills and creative talent necessary for various kinds of employment. The students will be capable of facing the competitive situation prevailing now and getting placement and have the capacity to go for higher education

Programme Specific Outcome

- Think in a critical manner.
- Formulate and develop mathematical arguments in a logical manner.
- Acquire good knowledge and understanding in advanced areas of mathematics
- Understand, formulate and use quantitative models arising in social science, Business and other contexts.

Course Outcome:

Semester I : Calculus

- To study functions in detail which is a fundamental structure in all sciences, and to be able to check continuity of a function.
- To learn basic properties of real numbers and its subsets which is backbone of Real Analysis
- To apply notion of derivative in mean value theorem and also in higher order derivatives which arise in all applied sciences

Semester I : Theory of Equations and Trigonometry

- To solve cubic and biquadratic equations.
- To find the logarithm of complex numbers.

Semester II : Differential Equations

- To solve linear equations with variable coefficients
- To study partial differential equations
- Applications of Differential equations in real life

Semester II : Analytical Geometry of 3D and Vector Calculus

- To study 3-dimensional Structures

- To study vector differentiation and vector integration

Semester III : Mechanics

- To study the equilibrium of a particle.
- To study moving velocity of a particle.

Semester IV : Basics of Analysis

- To understand the countable concepts of real number system.
- To study the behavior of sequences and series
- To provide a rich foundation for studying real analysis

Semester V : Modern Algebra

- Learning to count the elements of a finite group.
- Constructing quotient groups using integral domain

Semester V : Real Analysis

- To analyze the real line structure
- To study properties of Riemann integral

Semester V : Fundamentals of Statistics

- To analyze the data
- To study the qualitative characteristics - Attributes

Semester V : Operations Research

- To study linear programming problem and methods of solving it
- To study transportation and assignment problems
- To study the inventory – replacement policies and game theory

Semester VI : Linear Algebra

- To study about the algebraic system – vector space
- To know about Eigen values and Eigen vectors

Semester VI : Complex Analysis

- To study the differentiation of complex valued function
- To study the integration of complex valued function

Semester VI : Statistics

- To study probability and distributive functions
- To study the tests of significance

PROGRAMME NAME: M.Sc. MATHEMATICS

Programme Outcome:

This program inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions, equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results and draw reasonable conclusions thereof and prepare students for pursuing research or careers in industry in mathematical sciences and allied field.

Programme Specific Outcome

- Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.
- Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.
- Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions.
- Nurture problem solving skills, thinking, creativity through assignments, project work.

Course Outcome:

Semester I : Groups and Rings

- **To know about the algebraic structure.**
- **To develop thinking and improve the mathematical ability.**

Semester I : Theory of Riemann Integration

- **To get a comprehensive idea about the underlying principles of real analysis**
- **To study the concepts of Riemann integration.**

Semester I : Ordinary Differential Equations

- **To distinguish between linear, non-linear, partial and ordinary differential equations.**
- **To state the basic existence theorems for the first order ODE.**
- **To use the theorems to determine a solution interval.**

Semester I : Differential Geometry

- To get new ideas and techniques which play a prominent role in current research in global differential geometry.
- To develop thinking and improve the mathematical ability in geometrical structures.

Semester II : Linear Algebra

- To know more concepts in linear algebra
- To develop thinking and improve the mathematical ability.

Semester II : Real Analysis

- To enrich knowledge of the concepts of real analysis
- To develop knowledge in Weierstrauss theorem for algebraic polynomials.

Semester II : Classical Mechanics

- To solve the partial differential equations.
- To become familiar with first order and second order linear PDE
- To understand Bertrand theorem and Kepler Problem in mechanics.

Semester II : Partial Differential Equations

- To solve Partial Differential Equations.
- To solve the problem arise in geometry, physics and applied mathematics

Semester III : Topology

- To study the extended concepts of analysis
- To enrich the knowledge of topology
- To be able to apply for various areas of mathematics

Semester III : Measure Theory

- To study Lebesgue outer measure, signed measure
- To know about the different kinds of decomposition of measures

Semester III : Graph Theory

- To gather graph theoretical knowledge
- To know about the applications of graph theory through algorithms

Semester III : Probability and Statistics

- To know about the probability and distributions
- To improve the problem solving skills

Semester IV : Functional Analysis

- **To obtain more skills in analyzing the basic structure of normed spaces**
- **To get knowledge in using the classes of functions rather than individual functions**

Semester IV : Number Theory and Cryptography

- **To know about the numbers**
- **To develop the knowledge for doing research in number theory**

Semester IV : Complex Analysis

- **To get more ideas about analytic function and complex integration**
- **To study Riemann mapping theorem**

Semester IV : Operations Research

- **To know about Linear and Non-linear Programming Concepts.**
- **To study the applications of the Linear and Non-linear Programming Methods of solving**

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI**DEPARTMENT OF CHEMISTRY: COURSE OUTCOME****Program : B.Sc., Chemistry (Main) and B.Sc., Zoology (Ancillary Chemistry)**

On successful completion of the courses of B.Sc., degree program , the learners should be able to

S. NO	COURSE CODE	COURSE NAME	COURSE OUTCOME
1.	SCHJC11	General chemistry	<p>CO1 : Describe the basic aspects about atom and the proposed theories about arrangement of electrons in different orbitals in an atom.</p> <p>CO2 : Explain about the construction of Periodic table and Periodic properties of elements in the periodic table in different oxidation states.</p> <p>CO3 : Enrich the knowledge about the different types and nature of bonding interaction between different elements to form ionic bond.</p> <p>CO4: Enumerate the basic theories, hybridization and structure of simple molecules with covalent bond.</p> <p>CO5 : Describe the postulates of molecular orbital theory and the bonding interactions of homo and heteronuclear diatomic molecules.</p> <p>CO6 : Explain about the weak interactive forces like H-bonding, Van der walls and dipole interactions of molecules.</p> <p>CO7 : Enrich the knowledge of classification, nomenclature, intermediates, bond making and bond breaking process of an Organic molecules through stable intermediates.</p>

			<p>CO8 : Explain about hybridization, preparation and properties of alkane products.</p> <p>CO9 : Enumerate the fundamental aspects about kinetics theory and laws of gaseous molecules.</p> <p>CO10 : Describe the distribution of gaseous molecules in relation with velocity and collision.</p>
2.	SCHJS11	Introduction to chemistry laboratory technique	<p>CO1:Gained knowledge on Industrial safety.</p> <p>CO2:Able to know the Basic units in chemistry</p> <p>CO3:Pertain the principle of separation for separating two organic compounds in a given mixture</p> <p>CO4:Analyze the components present in the organic mixture and report the same.</p> <p>CO5:Estimate the amount of cations present in a solution mixture</p>
3.	SCHJS12	Sugar and paper industries	<p>CO1: Get training on advanced methods of cane-sugar production processes.</p> <p>CO2: Describes of fundamental concepts in sugar production.</p> <p>CO3: Get an exposure to the paper technology.</p> <p>CO4: Develop skills to determine the sugar content in various substrates.</p> <p>CO5: Get training on advanced methods of paper production processes.</p>
4.	UVEJC11	Value education	<p>CO1:Develop intrinsic moral and human value among the students, so he/she go with right way.</p> <p>CO2: Able to become a role model.</p> <p>CO3: Gain knowledge of different religion and society.</p>

			<p>CO4: Develop the professional values.</p> <p>CO5: Excel with focused approach in working environment</p> <p>CO6: Realise their fundamental Duties.</p> <p>CO7: Understand history of freedom struggle.</p>
5.	UPALP11	Professional English I: Stream A Physical science	<p>CO1: Recognise their own ability to improve their own competence in using the language</p> <p>CO2: Use language for speaking with confidence in an intelligible and acceptable manner</p> <p>CO3: Understand the importance of reading for life</p> <p>CO4: Read independently unfamiliar texts with Comprehension</p> <p>CO5: Understand the importance of writing in academic life</p> <p>CO6: Write simple sentences without committing error of spelling or grammar</p>
6.	SCHJA11	Organic, Inorganic and Physical chemistry (Allied Paper I)	<p>CO1: Understanding the basic concept of physical chemistry.</p> <p>CO2: Ability to understand the basic concept in organic chemistry</p> <p>CO3: Gain ideas about the basic principle of chemical bonding</p> <p>CO4: Acquire the concept of hybridization and MO theory for the study of structure and the bonding nature of molecules</p> <p>CO5: Developing the knowledge about hard water and soft water</p> <p>CO6: Creating an idea about water pollution and water treatment.</p>
7.	SCHJC21	Organic Chemistry I	<p>CO1 : Explain the preparation, chemical properties with selectivity in the formation of alkenes and dienes.</p>

			<p>CO2 : Explain the preparation, chemical properties with selectivity in the formation of alkynes.</p> <p>CO3 : Describe the nature of aromatic hydrocarbons and their preparation and reactivity.</p> <p>CO4 : Enumerate the influence of various functional groups on aromatic rings.</p> <p>CO5 : Explain the preparation of aromatic compounds with more than one benzene ring.</p> <p>CO6 : Describe the stability of various alicyclic compounds and their conformational stability.</p> <p>CO7: Enumerate the substitution and elimination mechanism of alkyl halides.</p> <p>CO8 : Describe the preparation and nucleophilic reaction mechanism of aryl halide</p> <p>CO9 : Learn the geometrical isomerism of olefinic compounds.</p> <p>CO10 : Explain the various aspects and stereo chemical applications of Chiral molecules.</p>
8.	SCHJS21	Perfume and cosmetics	<p>CO1: Understand and differentiate different types of perfumes.</p> <p>CO2: Recall their knowledge on chemistry of cosmetics.</p> <p>CO3: Explain the preparation of perfumes and cosmetics.</p> <p>CO4: Get training on advanced methods to prepare soap and detergents.</p> <p>CO5: Justify the implication of natural perfumes.</p>
9.	SCHJS22	Leather and textile chemistry	<p>CO1: Understand the various processes involved in leather industry.</p>

			<p>CO2: Describe the various methods involved in bleaching, mercerization and heat setting of textile materials.</p> <p>CO3: Distinguish the various dye class and their application to different fibres types.</p> <p>CO4: Gained comprehensive knowledge on the hydration, swelling, phase transitions, dimensional stability, relaxation, shrinkage and cross-linking phenomena of collagen.</p> <p>CO5: Have the practical skill to use advanced instruments associated science and technology</p>
10.	UESJD21	Environmental science	<p>CO1: Create awareness on the water pollution and its purifications</p> <p>CO2: Gain awareness in formation theory and control of air pollution, water pollution and green house effect</p> <p>CO3: Realization of deforestation effect and disposal of solid waste into the land</p> <p>CO4: Recognize the sustainability of agriculture and exploitative human activity.</p> <p>CO5: Create awareness about the various act involved in the protection of environment</p>
11.	UPALP21	Professional English II : Stream A Physical science	<p>CO1: Recognise their own ability to improve their own competence in using the language</p> <p>CO2: Use language for speaking with formation and function of words.</p> <p>CO3: Understand the importance of robotics in life.</p> <p>CO4: Read independently unfamiliar texts with comprehension</p> <p>CO5: Understand the importance of chemical sciences in academic life</p>

			Gain awareness about modern chemistry.
12.	SCHJA21	Organic and Physical Chemistry (Allied paper II)	<p>CO1: Knowing the basic structure of nucleus and its disintegration CO2: Significant knowledge in nuclear fission in the stars and the sun and hydrogen bomb</p> <p>CO3: Identifying the role of glucose, fructose, starch and cellulose in the living system CO4: Understanding the theory and classification of dyes CO5: Acquire proficiency in understanding the geometrical and optical isomerism CO6: Skill to identify the configurations for geometrical isomers using E/Z notation and optical isomers using R/S notation CO7: Gain meaningful knowledge on chromophore - auxochrome theory and classification of dyes</p>
13.	SCHJC2P	Volumetric analysis (Lab)	<p>CO1 : Develop the experimental titration skills in the laboratory. CO2 : Develop the preparation of standard solution for the titration and recording the results. CO3 : Develop the experimental skills of estimating weak and strong acids and bases CO4 : Develop the experimental skills of estimating weak acids and metal cations using permanganometry principles. CO5 : Develop the experimental skills of estimating metal cations using dichrometry principles.</p>

			<p>CO6 : Develop the experimental skills of estimating metal cations using iodo and iodimetry principles.</p> <p>CO7 : Develop the experimental skills of estimating metal cations using argentimetry principles.</p> <p>CO8 : Develop the experimental skills of estimating metal cations using complexometry principles.</p>
14.	SCHJA2P	Volumetric analysis (Allied Lab)	<p>CO1: Learn the importance of Quantitative analysis</p> <p>CO2: Knowing the different types of Volumetric analysis</p> <p>CO3: Get an idea about the role of indicator at different pH range in the acidimetry, alkalimetry, permanganometry and iodometry</p> <p>CO4: Enhancing the skill to determine the strength of the solution and its equivalent weight</p> <p>CO5: Gaining idea about the oxidation and reduction of ions</p>
15.	SCHJC31	Physical Chemistry I	<p>CO1: Acquire the basic knowledge of acids and bases concept in organic and inorganic substances and know the knowledge of non-aqueous solvents.</p> <p>CO2: Develop the ability of effective solving practical problem of analytical Chemistry and know about experimental techniques for precipitation reactions.</p> <p>CO3: Describe the chromatographic techniques for the separation and purification of organic compounds.</p> <p>CO4: Familiar with the computer languages and to develop the skill of C program writing in chemistry calculations.</p>

			CO5: Know the preparations and properties of Inorganic materials along with potential applications.
16.	SCHJA31	Organic and Physical Chemistry (Allied paper III)	CO1: Recognize electrochemical process and apply EMF measurements for measuring pH of a solution CO2: Acquire knowledge about various polymerization process CO3: Describe photochemical reaction and apply thermodynamics and kinetic concept on photochemical reaction CO4: Able to draw structure of different ionic solids and to calculate effective nuclear charge CO5: Know various methods to control air, water and radioactive pollution
17.	SCHJC41	Inorganic Chemistry	CO1: Acquire the knowledge of nuclear reaction and its types and know the properties of nuclear reactions along with the industrial applications CO2: Describe selected crystal structures and explain what kind of parameters that affect the crystal structure of a compound and perform calculations of the lattice enthalpy of ionic compounds. CO3: Determine the band structure of solids and the electrical properties. CO4: Acquire knowledge about inorganic polymeric composite materials, types, manufacturing methods & its applications. CO5: Develop knowledge on the chemistry of coordination compounds and their properties as well as the principal laboratory methodologies for the synthesis and characterisation of coordination compounds.

18.	SCHJA41	Organic and Physical Chemistry (Allied paper IV)	<p>CO1: Know about classification of vitamins biological function of antibiotics</p> <p>CO2: Formulate the first law of thermodynamics for a closed systems and arrange the change in energy in the closed systems via heat and work transfer</p> <p>CO3: Apply the law of thermodynamics to the open systems.</p> <p>CO4: understanding the fundamental equilibrium and transport properties in adsorption.</p> <p>CO5: understanding of the basic design of adsorption systems</p> <p>CO6: Know about the principle and types of planar chromatography</p> <p>CO7: Understanding various methodological aspects of paper and thin layer chromatography</p>
19.	SCHJC4P	Inorganic semi micro qualitative analysis (Lab)	<p>CO1: Analyse the simple and interfering acid radicals, basic radicals in the inorganic mixture sample qualitatively.</p> <p>CO2: Use of proper grammar and formal scientific style in written reporting of laboratory results</p> <p>CO3: Help students to work in some laboratory and find the chemical composition of an unknown inorganic compound or mixture.</p>
20.	SCHJA4P	Organic Analysis (Allied Lab)	<p>CO1: Identify aliphatic and aromatic compounds</p> <p>CO2: Detection of elements such as nitrogen and sulphur</p> <p>CO3: Systematic Qualitative Organic Analysis of Organic Compounds possessing mono functional groups (-COOH, aldehydic, ketonic, amide,</p>

			CO4: nitro, amines) and preparation of one derivative
21.	SCHJC51	Organic Chemistry II	<p>CO1 : Enumerate important preparation methods of aliphatic alcohols.</p> <p>CO2 : Explain different methods of preparation and properties of aromatic alcohols.</p> <p>CO3 : Explain the preparation and properties of aliphatic ethers, aldehyde and ketones.</p> <p>CO4 : Enumerate the preparation and properties of aromatic ethers, aldehyde and ketones.</p> <p>CO5 : Explain the preparation strategies of aromatic and aliphatic mono carboxylic acids.</p> <p>CO6 : Explain the preparation strategies of aromatic and aliphatic di carboxylic acids.</p> <p>CO7 : Enumerate the preparation methods of carboxylic acid derivatives.</p> <p>CO8 : Explain the physico-chemicals properties of mono, di and poly saccharides.</p> <p>CO9 : Describe the preparation and properties of mono and di nitro compounds.</p> <p>CO10 : Describe the preparation and properties of aliphatic and aromatic amines.</p>
22.	SCHJC52	Physical Chemistry II	<p>CO1. Recollect the basic concept of thermodynamics, thermal equilibria, phase rule and group theory</p> <p>CO2. Derive expressions for the thermodynamic Properties, Phase rule and construct the group multiplication table.</p> <p>CO3. Apply thermodynamic concept to real gases, physical transformation,</p>

			<p>spontaneous process, colligative properties and thermal equilibrium system</p> <p>CO4. Apply phase rule to one component and two component system</p> <p>CO5. Develop problem solving skills in thermodynamics and thermal equilibria</p>
23.	SCHJC53	Inorganic, Analytical and applications of computers in chemistry	<p>CO1: Acquire the basic knowledge of acids and bases concept in organic and inorganic substances and know the knowledge of non-aqueous solvents.</p> <p>CO2: Develop the ability of effective solving practical problem of analytical Chemistry and know about experimental techniques for precipitation reactions.</p> <p>CO3: Describe the chromatographic techniques for the separation and purification of organic compounds.</p> <p>CO4: Familiar with the computer languages and to develop the skill of C program writing in chemistry calculations.</p> <p>CO5: Know the preparations and properties of Inorganic materials along with potential applications.</p>
24.	SCHJS51	Nanotechnology and Green chemistry	<p>CO1: Acquire knowledge on Nanoscience and related fields.</p> <p>CO2: Understand the Nanoscience and its Applications</p> <p>CO3: Know about broad outline of Nanoscience and nanotechnology</p> <p>CO4: Equip the students as a valuable citizen in protecting our environment</p> <p>CO5: Facilitate the student to be a good entrepreneur in energy resources</p>

25.	SCHJC61	Organic Chemistry III	<p>CO1 : Describe the preparation and properties of mono and bi cyclic hetero aromatic compounds</p> <p>CO2 : Explain the isolation, synthesis and structure of important alkaloids</p> <p>CO3 : Enumerate the synthesis of biologically important aminoacids.</p> <p>CO4 : Describe the chemistry of Proteins, nucleic acids and terpenes.</p> <p>CO5 : Explain the chemical applications and preparation of various dyes.</p> <p>CO6 : Explore the synthetic applications of organometallic and ester reagents</p> <p>CO7 : Explain the preparation and properties of thio alcohol, thioethers and sulphonic acids</p> <p>CO8 : Explain the mechanism and applications of important name reactions</p> <p>CO9 : Enumerate the principles and applications of UV-Visible and IR spectroscopy.</p> <p>CO10 : Describe the principle and applications of Mass Spectroscopy.</p>
26.	SCHJC62	Physical Chemistry III	<p>CO1. Reminisce the basic concept of chemical kinetics, molecular spectroscopy, solutions, electrochemistry and photochemistry</p> <p>CO2. Derive expressions for various rate equations, Nernst equation and rate equation for photochemical reaction</p> <p>CO3. Apply the EMF measurements for the determination of electrochemical, thermo chemical properties and Nernst distribution law to various partially miscible liquid systems</p> <p>CO4. Analyze about the interaction between electromagnetic radiation &</p>

			<p>matter and compare emission & absorption spectra, atomic & molecular spectra and Raman & IR</p> <p>CO5. Solve the problems related to electrochemistry, chemical kinetics and spectroscopy.</p>
27.	SCHJC63	Applied Chemistry	<p>CO1:Develop innovative methods to produce soft water for industrial use and potable water at cheaper cost and differentiate hard and soft water, solve the related numerical problems on water purification and its significance in industry and daily life.</p> <p>CO2: Equip with basic knowledge of natural and synthetic polymer reinforced composites, applications of polymers in Industry.</p> <p>CO3: Know the properties, separation techniques of natural gas and crude oil along with potential applications and role of petrochemicals in national economy.</p> <p>CO4:Acquire Basic knowledge of paints and lacquers to appreciate its applications in the field of paint industry.</p> <p>CO5:Explain the raw materials and manufacturing process of Silicate industry and its applications.</p>
28.	SCHJS61	Medicinal Chemistry	<p>CO1:Understand Definition, Classification of the drugs with examples and structures</p> <p>CO2:Acquire the knowledge on Drugs used for various infectious diseases caused by pathogens</p> <p>CO3: Know about the structure activity relation of some important class of drugs</p> <p>CO4: Explain mechanism of action of the drugs</p>

			<p>CO5: Describe synthesis of medicinally important drug</p> <p>CO6: Explain Therapeutic uses of drugs and Specific side effect of 'Drug Substances'</p> <p>CO7: Explain physico chemical properties related to QSAR</p> <p>CO8: Apply various approaches and designing of drug molecules including prodrug and Combinatorial chemistry</p>
29.	SCHJC6P	Gravimetry and Organic preparations(Lab)	<p>CO1: Interpret different gravimetric analysis methods and defines the properties of precipitate and precipitating agents.</p> <p>CO2: Know the gravimetric estimation experiments, calculations and solves problems related to gravimetric method applications.</p> <p>CO3: solves the problems related to ion separation by control of the concentration of the precipitating reagents</p> <p>CO4: Develop basic skills for the preparation of organic compounds and its recrystallisation process.</p>
30.	SCHJC6Q	Organic analysis and estimation (Lab)	<p>CO1 : Develop the experimental and analytical skills of organic compounds.</p> <p>CO2 : Develop the practical skills of handling different apparatus used in organic analysis.</p> <p>CO3 : Develop the skills of analyzing organic compound with various functional groups without nitrogen, Sulfur and halogens.</p> <p>CO4 : Develop the skills of analyzing organic compound with various functional groups with nitrogen, Sulfur and halogens.</p>

			<p>CO5 : Develop the analytical and experimental skill of estimation of organic compounds using volumetric analysis protocols.</p> <p>CO6 : Developing the skills of reporting the results from the experiments.</p>
31.	SCHJC6R	Physical Chemistry Experiments (Lab)	<p>CO1: Recall the procedures and instrumental operation applied in the practical tasks of Physical Chemistry experiments</p> <p>CO2: Reconcile the micro scale handling in the laboratory in order to reduce the usage of chemicals.</p> <p>CO3: Apply their skills in carrying out physical chemistry laboratory techniques.</p> <p>CO4: Record, review and analyze the observed experimental data.</p> <p>CO5: Demonstrate the observed data following the laboratory ethics</p>

Program : M.Sc., Chemistry (Main) and M.Sc., Zoology (NME)

On successful completion of the courses of M.Sc., degree program , the learners should be able to

32.	ECHJC11	Introduction to organic reaction	<p>CO1: Describe and apply stereo-chemical concepts such as chirality stereoisomerism and stereo-selectivity in relation to chemical transformations</p> <p>CO2: Understand the concept and definitions of aliphatic nucleophilic and electrophilic substitution reactions neighbouring group participation and nucleophilic substitution on allylic carbon and vinyl carbon.</p> <p>CO3: Understand the concept of aromatic character in six, five, seven and eight member rings.</p>
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			<p>CO4: Understand the concept of Gilman's reagent, LDA, 1,3-dithiane, tributyltinhydride, DDQ Peterson synthesis, DIBAL, baker yeast</p> <p>CO5: Understand the concept of crown-ether, inclusion compounds, Hammond postulates.</p>
33.	ECHJC12	Chemical bonding, Solid state, Metallurgy and Inorganic polymer	<p>CO1: Determine correct 3D structure of inorganic cages, chains and polyacids.</p> <p>CO2: Recall the fundamental principles of chemical bonds.</p> <p>CO3: Justify the implication of various metallurgical processes of metals.</p> <p>CO4: Examine and apply the structural arrangement in metals, ionic, covalent compounds and inorganic solids.</p> <p>CO5: Understand the basic concepts of crystal structure.</p>
34.	ECHJC13	Thermodynamics, Chemical equilibrium and Electrochemistry	<p>CO1: Assess Thermodynamic application using II law of thermodynamics, Calculation of bond energy, Open, closed & isolated system</p> <p>CO2: Recognize single, Two, Three component system & partially miscible system</p> <p>CO3: Has thorough Knowledge on different classical and quantum mechanical distribution.</p> <p>CO4: Recognize the electrochemical process</p> <p>CO5: Evaluate electrodes and Cells</p>

35.	ECHJT12	Biochemistry	<p>CO1: Describe structure, functions and the mechanism of action of enzymes.</p> <p>CO2: Illustrate the metabolism of carbohydrates through various anabolic and catabolic pathways like glycolysis.</p> <p>CO3: Develop skills to determine the principles of transition metal coordination complexes in understanding functions of biological systems.</p> <p>CO4: Understand the characteristics and classifications of RNA and DNA.</p> <p>CO5: Exposure to basic reactions of photosynthesis.</p>
36.	ECHJC21	Stereochemistry and Organic reactions	<p>CO1: Describe and apply addition to multiple bonds and naming reaction like mannich reaction, benzoin condensation, aldol condensation, hydroboration.</p> <p>CO2: Understand the concept of wittig reaction, Grignard reaction, esterification of acids and hydrolysis of ester and addition to α, β unsaturated carbonyl compounds, elimination reaction.</p> <p>CO3: Understand the concept of conformational analysis of ethane and n-butane, conformational analysis of cyclic simple cyclic system.</p> <p>CO4: Encompass achieved advanced knowledge about aromatic electrophilic substitution, Friedelcraft reaction and sulphonation</p> <p>CO5: Understand the concept of quantitative treatment of structure on reactivity hammett relationship limitation and deviations.</p>

37.	ECHJC22	Coordination , Organo metallic and Bio inorganic chemistry	<p>CO1:Understand and differentiate different theories of coordination chemistry.</p> <p>CO2: Discuss the concepts of organometallic and nuclear chemistry.</p> <p>CO3: Explain the basic coordination chemistry and of the interdisciplinary approach to study the peculiar role of metals in biology and their interaction with organic and biological molecules.</p> <p>CO4: Explain the reaction mechanism of different metal complex reactions.</p> <p>CO5: Students correctly predict IUPAC name and the product(s) of reactions which involving coordination complexes.</p>
38.	ECHJC23	Group theory and Spectroscopy	<p>CO1:Proficiency in using concept of molecular Symmetry to identify physical properties.</p> <p>CO2:Understanding of principles and application of spectroscopic techniques for determination of molecular structure.</p> <p>CO3: Rotational spectrum of Diatomic & polyatomic molecules are examined.</p> <p>CO4:Understand the principles of Vibrational & Raman spectroscopy.</p> <p>CO5:Use technique & modern instruments for application in spectroscopy</p>
39.	ECHJT22	Industrial Chemistry	<p>CO1:Recall the fundamental principle of industrial reactions</p> <p>CO2:Understand the concept related to synthesis and functions of various processes</p> <p>CO3:Apply their understanding about the large scale process of industrial significance</p>

			<p>CO4: Evaluate the industrial pollutants, understand their effects and adopt methods to reduce them.</p> <p>CO5: Understand the different process in organic and inorganic reactions</p> <p>CO6: Improve the quality of products.</p>
40.	ECHJC2P	Inorganic qualitative and quantitative analyses and preparations (Lab)	<p>CO1: Understand the principle of complex synthesis.</p> <p>CO2: Design a methodology for real time materials preparation and characterization.</p> <p>CO3: Develop skill and proficiency in separation and determination of metal ions.</p> <p>CO4: Analyze inorganic compounds from unknown mixture in chemical industries.</p> <p>CO5: Get hands-on training in basic knowledge in complexometric titration.</p>
41.	ECHJC2Q	Organic preparations and qualitative and quantitative analyses (Lab)	<p>CO1: Recall the importance of synthetic organic chemistry and the applications in chemical industries.</p> <p>CO2: Understand the preparation methods, the functions of various reagents and the Reaction mechanisms.</p> <p>CO3: Analyze the selectivity in product distribution and the influence of reaction conditions in terms of yields.</p> <p>CO4: Evaluate the properties of synthesized organic products and their derivatives through spectroscopic and analytical data.</p>
42.	ECHJC31	Organic spectroscopy and Natural products	<p>CO1: To Understand the concept of principle and selection rule of UV, IR and Mass spectroscopy.</p>

			<p>CO2: To solve the problem related UV, IR and Mass spectroscopy.</p> <p>CO3: To understand the concept of principle and selection rule of one dimension and two dimension NMR spectroscopy.</p> <p>CO4: To predict the electronic and chemical equivalent proton and chemical shift value for all the organic molecules.</p> <p>CO5: To Determine the confirmations of cyclic ketones by using ORD and CD Spectra.</p>
43.	ECHJC32	Inorganic spectroscopy, Nano chemistry and f-block elements	<p>CO1: Recall their knowledge on concepts of structural elucidation of inorganic compounds.</p> <p>CO2: Evaluate problems based on various inorganic spectroscopy.</p> <p>CO3: Understand the concepts related to NMR, ESR, Mossbauer, PES, XPS spectroscopy.</p> <p>CO4: Analyze the spectra data of Inorganic compounds.</p> <p>CO5: Get an exposure to the Nano technology.</p>
44.	ECHJC33	Quantum, Nano and Macro molecular chemistry	<p>CO1: Able to explain role of operators in quantum mechanics.</p> <p>CO2: Evaluate eigen values for wave functions using eigen equation</p> <p>CO3: Able to solve problems related to 1D, 3D dimensional box etc</p> <p>CO4: Develop a fundamental knowledge of nano materials & instrumentation.</p> <p>CO5: Rationalize bulk properties & processes using Thermodynamic consideration.</p>
45.	ECHJN32	Environmental science (NME-ZOO)	<p>CO1: Analyze different trace elements in soil by Chemical analysis.</p>

			<p>CO2: Evaluate parameters to be controlled in solid waste and adopt methods for reduction and recycling of solid waste.</p> <p>CO3: Analyze water quality through different analytical methods.</p> <p>CO4: Apply absorption and emission and chemical analysis analyzing water pollutants and understand their impact.</p> <p>CO5: Analyze different parameters in Air quality monitoring and adopt methods for their Reduction.</p> <p>CO6: Evaluate the industrial pollutants, understand their effects and adopt methods to reduce them.</p> <p>CO7: Demonstrate their knowledge in evaluating different contaminants in food through water, pesticides and additives</p>
46.	ECHJC41	Biomolecules, Rearrangements and synthetic methods	<p>CO1: Understand the concepts related to nomenclature, isomerism and stereochemistry.</p> <p>CO2: Apply their understanding about the photochemical reactions with respect to Regioselectivity.</p> <p>CO3: Design new organic reactions in order to achieve the required product</p> <p>CO4: Analyze the product distribution and the stereochemistry of Retero-synthetic products.</p> <p>CO5: Evaluate the organic reactions and methodologies based on the influence of the substituents on substrate molecules and nature of solvent and parametric conditions.</p> <p>CO6: Get an idea of greener methodologies using ultrasound and microwave methodologies.</p> <p>CO7: understand the application of biocatalysts in organic synthesis</p>

47.	ECHJC42	Nuclear Chemistry, Electro analytical and Thermal methods	<p>CO1:Justify the implication of nuclear chemistry in energy generation.</p> <p>CO2: Describe the fundamental nuclear particles, nuclear structure, stable and unstable atomic nuclei, nuclear reactions.</p> <p>CO3:Analyze thermal behavior of different organic and inorganic materials using TGA, DTA and DSC.</p> <p>CO4:Justify the role of the cyclic voltametry and its qualitative and quantitative applications.</p> <p>CO5: Evaluate errors in chemical analysis through statistical treatment of data through F-test,T-test and Q-test.</p> <p>CO6: Get an idea about computer resources to chemistry.</p>
48.	ECHJC43	Chemical kinetics, Surface, Bio physical and Photo Chemistry	<p>CO1:Understand the concept of pseudo first order</p> <p>CO2:Explain the function & purpose of catalyst,recall and manipulate the Arrhenius law equation.</p> <p>CO3:Understand adsorption process & its mechanism on the surface.</p> <p>CO4: Understand photophysical kinetics of unimolecular and bimolecular processes and Stern-Volmer, radiative and non- radiative transitions with the help of Jablonski diagram.</p> <p>CO5: overview the core concepts of supra molecular chemistry</p>
49.	ECHJT41	Polymer Chemistry	<p>CO1:Describes of fundamental concepts in polymers.</p> <p>CO2: Explain the preparation of high polymers, polymerization steps.</p>

			<p>CO3: Describe fundamental of conducting polymers and their various application.</p> <p>CO4: Design research oriented project on polymer synthesis.</p> <p>CO5: Recall their knowledge on concepts of structural elucidation of polymers.</p>
50.	ECHJC4P	<p>Conductometric and Potentiometric titrations and Kinetics, Adsorption and Spectral measurements (Lab)</p>	<p>CO1: Relate the principle of potentiometric titrations for estimating the strength of solutions .</p> <p>CO2: Determine the molecular weight of a compound by Rast method</p> <p>CO3: Appraise the properties of matter by Simple Eutectic System</p> <p>CO4: Relate the principle of Conductometric titrations for estimating the strength of solutions .</p> <p>CO5: Able to know about adsorption and Chemical kinetics</p>
51.	ECHJC4Q	<p>Project / Review of recent aspects of chemistry – Project Viva voce</p>	<p>CO1: Do literature survey in their research area in future</p> <p>CO2: Enrich positive attitude and research skill</p> <p>CO3: Able to design and execute the innovative research schemes with ethics for the benefit of society</p> <p>CO4: Apply the knowledge of instrumentation and characterization techniques for their future research work</p> <p>CO5: Evaluate, summarize and discuss the scientific results of their team projects</p> <p>CO6: Able to write project proposal for various government funding agency</p>

MADURAI KAMARAJ UNIVERSITY
B.Sc., Zoology Major

Course Outcomes

B.Sc., Zoology Major
Core Paper - 1

Part – III

Semester – I

INVERTEBRATA

- To understand the principles of classification.
- To acquire knowledge about the major invertebrate phyla.
- To know the diseases produced by the protozoan and helminthes parasites.
- To get an idea about the evolutionary significance of invertebrates.

B.Sc., Zoology Major
Core Paper – 2

Part – III

Semester – II

CHORDATA

- To gain knowledge about the classification and general characters of vertebrates.
- To know the evolutionary significance of prochordates.
- To understand the structure and function of various systems in animals.
- To acquire knowledge on identifying the poisonous and non-poisonous snakes.
- To study the adaptations of birds and mammals.

B.Sc., Zoology Major
Core Paper – 3

Part – III

Semester – III

DEVELOPMENT BIOLOGY

- To understand ontogenesis, the development of animals including parthenogenesis
- To study embryonic adaptations, human reproduction and reproductive technology in man.
- To know about test tube babies and twins
- To know about development of organs in frog

B.Sc., Zoology Major
Core Paper – 4

Part – III

Semester – IV

CELL BIOLOGY

- To learn the structure and functions of various cellular components.
- To understand the principles of different Microscopes.
- To know about Cancer and its types, causes and diagnosis

B.Sc. Zoology Major

Part – III

Semester – V

Core Paper - 5

Genetics & Molecular biology

- To understand Mendelian principle in plant cross
- To study human chromosomes and syndromes.
- To know about DNA as a genetic material
- To know about Eugenics: Positive and Negative- Euthenics

B. Sc. Zoology Major

Part-III

Semester - V

Core Paper-6

Biochemistry

(4 credits)

- To understand the principles of classification.
- To acquire knowledge about the major invertebrate phyla.
- To know the diseases produced by the protozoan and helminthes parasites.
- To get an idea about the evolutionary significance of invertebrates.

B.Sc., Zoology Major
Core Paper – 7

Part – III

Semester –V

MICROBIOLOGY AND IMMUNOLOGY

- To understand the bacterial classification
- To acquire knowledge about the diseases caused by microbes
- To know the immune system of our body
- To get an idea about the Vaccines and Immunization

Core Paper - 8

Biotechnology

(4 Credits)

- To know about the tools and methods of gene transfer.
- To understand the meaning of genetic engineering.
- To get an idea of transgenic animals and their importance.
- To acquire knowledge on tissue culture technology and transgenic plants
- To study about recent advancements in biotechnology

B.Sc., Zoology Major

Part III

Core Paper : 9

ANIMAL PHYSIOLOGY

Objectives

- to explaining various aspects of physiological activities in animals
- to know about the functions of kidney
- to study about the nervous coordination system
- to know about the functions of hormones

B.Sc., Zoology Major

Part III

Core Paper - 10

ECOLOGY AND EVOLUTION

- To gain knowledge about the Abiotic factors.
- To acquire knowledge on animal population and wild life.
- To know the evolutionary significance of Human
- To understand the mechanism of evolution.

Non Major Elective –1. **Ornamental Fish culture** (For non- biology students)

- To identify common ornamental fishes and their characteristics
- To know the art of fish keeping and setting up a fish tank
- To understand the collection and preparation of live and prepared feed
- To become familiar with breeding technique
- To gain knowledge about the common diseases of ornamental fishes and their control

B.Sc., Zoology Major**Part – IV****Semester – I****Skill Based Elective Paper: 1****APICULTURE**

- To inculcate importance of Bee keeping and Honey processing.
- To encourage young learners to take up the small-scale industries after graduation.
- To teach techniques of construction of Bee Hives and its maintenance.
- To disseminate information on economic aspects of honey bee.

B.Sc. Zoology Major

Part - IV

Semester - I

Skill Based Elective Paper-2

SERICULTURE

- To know about the Mulberry and Non – mulberry silkworm types
- To understand the mulberry cultivation and silkworm rearing
- To acquire knowledge about silk reeling
- To know about the diseases of silkworm.

Skill Based Elective Paper – 3

VERMICULTURE

- To know the earthworm species and its importance
- To create awareness among students on organic vermicomposting.
- To motivate the students for self-employment
- To understand the production of organic fertilizer. .

Elective Paper - 4

Biostatistics and Computer Applications

- Illustrate the basic concepts of probability and biostatistics.
- Describe statistical methods and probability distributions relevant for molecular biology data.
- To understand MS word, net work topology, internet and MS Excel

Skill Based Subject Paper – 5**ECONOMIC ZOOLOGY (4 Credits)**

- To encourage young learners for self – Employment.
- To impart knowledge on useful animals to Mankind.
- To emphasize the importance of economic values of animals.
- To disseminate information on modern techniques of Animal culture.

Skill based Elective paper: 6 **Economic Entomology**

- To become familiar with various developmental stages of insects
- To understand the role of beneficial insects
- To know about the principle and methods of pest control
- To study on household insects and insects vectors of human diseases

I B.Sc. Zoology, Ancillary

Part - III

Semester - I

Core paper -1

Invertebrata

- i. To study the levels of organization and outline classification of animals.
- ii. To know the salient features and examples of invertebrate phyla.
- iii. To understand the biology and parasitic adaptations of invertebrates.
- iv. To trace the economic importance of invertebrate groups.
- v. To study the method of oyster culture.

I B.Sc., Ancillary Zoology,

Part - III

Semester - II

Core paper -2

Chordata

- To gain knowledge about the classification and general characters of vertebrates.
- To understand the structure and function of various systems in animals.
- To acquire knowledge on identifying the poisonous and non-poisonous snakes.
- To study the adaptations of birds and mammals.

II B.Sc Ancillary Zoology

Part - III

Semester - III

Microbiology, Cell biology, Genetics, Molecular biology, and Biotechnology

- To gain knowledge about the bacterial and viral structure and diseases
- To understand the structure and function of various cell organells.
- To acquire knowledge on sex linked inheritance in man
- To study the biotech applications.

II B.Sc. Ancillary Zoology

Part - III

Semester - IV

Developmental biology, Biochemistry, Physiology, Immunology, and Evolution

- To gain knowledge about the test tube babies
- To understand the function of various metabolic cycles.
- To acquire knowledge on kidney function
- To study the human evolution.

MADURAI KAMARAJ UNIVERSITY

M.Sc.. Zoology (Semester)

Course Outcomes

ANIMAL DIVERSITY I Semester

Upon completion of the course, students will be able to,

CO 1: Discuss the Animal Taxonomy, Speciation

CO 2: Illustrate the structural organization.

CO 3: Demonstrate the outline classification of animals

CO 4: Understand the basic concepts of taxonomy.

CO 5: Appreciate various levels structural organization of animals.

CELL AND MOLECULAR BIOLOGY I Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Illustrate the structure of prokaryotic and eukaryotic cell.

CO 2: Elaborate the structure and organization of chromosome.

CO 3: Appreciate cell cycle.

CO 4: Discuss the gene regulation in prokaryotes and eukaryotes.

CO 5: Analyze cell death, cancer and organisms that cause cancer.

BIOCHEMISTRY I Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Understand the physical and chemical concepts in biology.

CO 2: Learn the structure, properties and functions of biomolecules.

CO 3: Analyze enzymes and concepts of bioenergetics.

CO 4: Appreciate the various carbohydrate metabolic pathways.

CO 5: Understand metabolism of nucleic acid, amino acid and lipid.

AQUACULTURE I Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Study introductory aspects of aquaculture.

CO 2: Demonstrate technical aspects of aquaculture.

CO 3: To elaborate the diseases in aquaculture.

CO 4: Demonstrate the use of aquaculture accessories in fishing.

CO 5: Learn the technicalities of preservation.

GENETICS II Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Understand the genetics of prokaryotes.

CO 2: Learn the interference, RNA silencing.

CO 3: Understand gene expression, genetic code

CO 4: Understand the chromosomal aberrations

CO 5: Understand the quantitative genetics

BIO-TECHNIQUES II Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Illustrate the principles and types of microscopes.

CO 2: Demonstrate the various biochemical techniques.

CO 3: Discuss the techniques of molecular biology.

CO 4: Analyze molecular structure using different methods.

CO 5: Appreciate the principles and applications of tracer techniques.

ECOLOGY II Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Introduce the basic concepts of ecology.

CO 2: Focus on population and community ecology.

CO 3: Illustrate the different types of resources.

CO 4: Demonstrate the various types of pollution.

CO 5: Discuss the environment management and protection.

POULTRY SCIENCE II Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Introduce the various aspects of poultry.

CO 2: Illustrate poultry housing.

CO 3: Appreciate the various types of poultry nutrition.

CO 4: Demonstrate the practical aspects of chick rearing.

CO 5: Discuss the poultry health management.

ANIMAL PHYSIOLOGY III Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Learn the nutrition, feeding and digestion.

CO 2: Appreciate the aspects of respiration and circulation.

CO 3: Discuss the various aspects of excretion, Osmo and thermo regulation.

CO 4: Demonstrate the nervous system and sense organ.

CO 5: Discuss the endocrine glands and reproduction.

IMMUNOLOGY AND MICROBIOLOGY III Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Discuss the types of lymphoid organs and detection of antigen antibody reaction.

CO 2: To appreciate the components of the human immune response and hypersensitivity.

CO 3: Demonstrate the various immunotechniques.

CO 4: Elaborate the Classification of prokaryotes and culture methodology of microbes.

CO 5: Illustrate the economic importance of microbes.

BIOSTATISTICS AND BIOINFORMATICS III Semester

Course Outcomes:

Upon completion of the course, students will be able to,

- CO 1:** Illustrate the basic concepts of probability and biostatistics.
- CO 2:** Describe statistical methods and probability distributions relevant for molecular biology data.
- CO 3:** Perform and interpret bioinformatics and statistical analyses with real molecular biology data.
- CO 4:** Know the applications and limitations of different bioinformatics and statistical methods.
- CO 5:** Discuss the theory behind fundamental bioinformatics analysis methods and widely used bioinformatics databases.

APPLIED ZOOLOGY III Semester

Course Outcomes:

Upon completion of the course, students will be able to,

- CO 1:** Discuss the vermicomposting method and its application.
- CO 2:** Illustrate the concepts of sericulture and life cycle of silk worm.
- CO 3:** Elaborate the life history of honey bee, methods of bee keeping and its life threatening diseases.
- CO 4:** Discuss the various methods of prawn culture, harvesting and preservation.
- CO 5:** Illustrate pearl culture techniques and types of pearls.

HUMAN GENETICS III Semester

Course Outcomes:

Upon completion of the course, students will be able to,

- CO 1:** Learn genetic material and concept of gene.
- CO 2:** Illustrate the chromosomal aberration and types of syndromes.
- CO 3:** Know the basics of cancer, types and therapeutic advancements.
- CO 4:** Discuss various genetic and metabolic disorders.
- CO 5:** Summarize types, applications and ethics involved in PCR typing and genetic testing.

EVOLUTION IV Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Discuss the history, concepts of evolution and know the theories of evolution.

CO 2: Illustrate the concepts of mutation variation and role of isolation mechanism.

CO 3: Discuss genetics, structure and ecology of speciation.

CO 4: Discuss the origin of higher categories, connecting link and rates of evolution.

CO 5: Summarize the cultural evolution and recent findings of fossil records of human evolution.

DEVELOPMENTAL BIOLOGY IV Semester

Course Outcomes:

Upon completion of the course, students will be able to,

CO 1: Discuss the development of gametogenesis, Oogenesis, spermatogenesis and fertilization.

CO 2: Illustrate the patterns of cleavage, neural induction and morphogenetic movements.

CO 3: Discuss the chemical basis of differentiation, development of ageing and teratogenesis.

CO 4: Summarize the morphogenetic process of ontogenesis and asexual reproduction.

CO 5: Accentuate the developmental genetics of *Drosophila*, Zebra fish and tissue regeneration.

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI

DEPARTMENT OF ECONOMICS (Ancillary)

COURSE OUTCOME AND PROGRAM OUTCOME

Allied Paper – 6 hours per week – 25 Marks Internal and 75 Marks External

B.Com. Program (I Year) – Odd Semester

Managerial Economics – CCRJA11

Course Outcomes:

- CO1 - Understand the nature and scope of managerial economics and role and responsibilities of managerial economist
- CO2 - Know the factors influencing the demand
- CO3 - Realize the basic concepts of managerial economics
- CO4 - Understand the various objectives of a modern business firm
- CO5 - Identify the factors involved in pricing of the product and analyse the various methods of strategy based pricing
- CO6 - Understand the methods of demand forecasting for an established product and new product
- CO7 - Analyse the profit planning methods

B.Com. Program (I Year) - Even Semester

Economic Development of India – CCRJA21

Course Outcomes:

- CO1 - On completion of the course, the students will be able to
- CO2 - Comprehend the features of Indian economy and mixed economy
- CO3 - Knowledge about capital formation
- CO4 - Learn on the delicious role of agriculture in Indian economy
- CO5 - Understand the nature of effects of Green Revolution
- CO6 - Understand the concept of poverty and various measures to reduce of poverty in India.
- CO7 - Realize the LPG policy and New Industrial Policy of 1991
- CO8 - Gather knowledge on importance public sector undertakings in India and its present trends of PSU's
- CO9 - Update the taxation policy of India that is, GST

Program Outcomes:

By imparting the subject of Managerial Economics, the students can enhance the analytical skills in business decision making and has develop the rational thinking in developing the business process.

And by studying the Economic Development of India subject, the students can understand all aspects of development of internal Indian Economy.

B.A. HISTORY Program (II Year) - Odd Semester

Principles of Economics - I – AHSJA31

Course Outcomes:

- CO1 - Understand different definitions of economics, basic concepts in economics
- CO2 - Get to know the methods of economics and economics laws.
- CO3 - Analyse the consumer behaviour by examine on cardinal utility
- CO4 - Familiarize the technique in measuring price elasticity of demand and identify the factors for demand and elasticity of demand
- CO5 - Interpret features and functions of factors of production namely Land, Labour, Capital and Organization
- CO6 - Understand the concepts of costs and revenues
- CO7 - Compare the various market forms and infer its price and output equilibrium

B.A. HISTORY Program (II Year) - Even Semester

Principles of Economics - II – AHSJA41

Course Outcomes:

- CO1 - Conceptual idea about the national income and its importance and difficulties in computation
- CO2 - Knowledge about theory of distribution
- CO3 - Gather the theories of factors of production
- CO4 - Comprehend the functions of money and demand of money
- CO5 - Establish the functions of Central Bank and Commercial Banks and its role in economic development
- CO6 - Understand different phases of trade cycle and its impact
- CO7 - Impact and consequences of inflation and deflation
- CO8 - Principles of taxation and Update the taxation policy of India that is, GST
- CO9 - Analyse the public expenditure, debt, and revenue of the government

Program Outcomes:

By briefing the subjects, students can enhance innovation, competence and sense of social responsibilities, while offering an equal chance for all students; the students with the intellectual and analytical skills required to understand, evaluate and analyse the economic issues and challenges of everyday life; and ensure distinctive behaviour among students towards wealth creation and productive use of resources enabling them to adapt to constant changes and new challenges in the economy.

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI

DEPARTMENT OF ECONOMICS

COURSE OUTCOME 2021-22

1. Economics subject enables the learners to build up a professional carrier as economists, financial advisors, economics planners and policy makers. It prepares them to cope up with the stress and strain involved in the process of economic development. Department supports the education and training of students, teachers and research in economics. At the end of the three year B.A economics programme the students will be able to know about the working and structure of capital market. It also helps the students to acquire knowledge in the form of investing shares in a leading and listed companies.
2. Students from other disciplines are able to speak of various economic ideas and understand its implications in real life situations. To prepare the students with basic theoretical knowledge regarding the origin and development of economic ideas of different schools of thought till date.
3. Economics is the study of how societies, governments, businesses, households, and individuals allocate their scarce resources. Our discipline has two important features. First, we develop conceptual models of behavior to predict responses to changes in policy and market conditions.
4. The complementary study of econometrics, the primary quantitative method used in the discipline, enables students to become critical consumers of statistically based arguments about numerous public and private issues rather than passive recipients unable to sift through the statistics.
5. Prepare for the competitive examinations based on recent economic issues and data related to population, literacy rate, and poverty, unemployment, banking sector, budget, inflation, growth rate, agricultural sector, industrial sector and service sector. Students are able to analyze current economic scenario in India.

Course Outcome

Semester I

I. Micro Economics

1. The outcome of the paper is to understand the economic behaviour of individuals, firms and markets.
2. It is mainly to equip the students in a rigorous and comprehensive understanding.
3. The various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm.
4. The outcome of the paper is to analyze the economic behaviour of individuals, firms and markets.
5. It is mainly to equip the students in a rigorous and comprehensive understanding with the various aspects of consumer behaviour and economic welfare, firm's behaviour and the theory of imperfect markets and equilibrium in different conditions.
6. It will result in equipping the students in a rigorous and comprehensive manner with the various aspects of consumer behaviour and demand analysis, production theory and behaviour of costs, the theory of traditional markets and equilibrium of firm in modern non-profit maximizing framework.
7. It will result in understanding the micro and macro theories of distribution, welfare economics, general equilibrium in closed and open systems and analysis of economic behavior under uncertainty.
8. Students can exhibit the conceptual framework of consumer's demand in relevance to their day to day life and also able to grasp the basic ideas of elasticity of demand and production laws.
9. Pupils can able to distinguish between product pricing and factor pricing and also classify the different types of markets.

The objective of the course is to introduce the student with advanced modern microeconomic theory.

II. Economics of Statistics

1. This course will help the students understand the issues regarding data collection, processing organizing and presentation and the issues involved therein.
2. Students will understand the basic concepts of descriptive and inferential statistics.
3. It will help students understand situations radically and solve them.
4. Students acquire the knowledge in descriptive statistics and its applications in economics.
5. Students acquire the knowledge in descriptive and inferential statistics and its applications in economics.
6. To acquaint students with basic statistical techniques and to develop the ability to organize data and interpret test results.
7. Students will work in small groups in this course; this will develop the skills required to work effectively and inclusively in groups, as in a real work environment.
8. Typically, one component of the assessment requires students to work in teams and collect and analyse data in order to answer a real-world problem of their own choosing.
9. By the end of this course, students should understand and know how to use statistics.
10. Students will also develop some understanding of the limitations of statistical inference and of the ethics of data analysis and statistics.

Semester II

III. Micro Economics I

1. After the completion of the course, students will be able to address economic issues related to uncertainty and risk in decision-making.
2. The students will learn to understand how in the real world market.
3. Contractual settings are characterized by conflict of interests as well as asymmetry of information among the individuals involved.
4. Also, the students will develop an understanding of how negotiations made under asymmetric.
5. Information conditions and how the sub-optimality problem can be addressed in economics.
6. Students are learn market structure, how to get easy market and get more profit with uses of modern ideas.

7. They understand price discrimination, profitable and price determination of the market and society.
8. Students are got idea from the micro economics market competitions, how play all the markets whether short term or long-term and oligopoly, price leadership, demand curve concepts.
9. What are the main functions are played the vital role of micro economics means of distribution, wages and rent and all the functions determination and features.
10. Students are studied interest and profit, what are the major uses, types, features and classical and modern theories.

IV. Economic Statistics I

1. In today's world, good decision making relies on data and data analysis.
2. This course helps students develop the understanding that they will need to make informed decisions using data, and to communicate the results effectively.
3. The course is an introduction to the essential concepts, tools and methods of statistics for students in business, economics and similar disciplines, although it may have wider interest.
4. The focus is on concepts, reasoning, interpretation and thinking rather than computation, formulae and theory.
5. Much of the work will require students to write effectively and communicate their ideas with clarity.
6. The course covers two main branches of statistics: descriptive statistics and inferential statistics.
7. Descriptive statistics includes collecting data and summarizing and interpreting them through numerical and graphical techniques.
8. Inferential statistics includes selecting and applying the correct statistical technique in order to make estimates or test claims about a population based on a sample.
9. Topics covered may include descriptive statistics, correlation and simple regression, probability, point and interval estimation, hypothesis testing, multiple regression, time series analysis and index numbers.

10. Students are well known about the time series analysis and probability theorems of the deep and good analysis.

Semester III

V. Macro Economics

1. Macro Economics-I paper provides elementary theoretical foundation of key issues and policies.
2. The paper attempts to discuss the functional relationships between aggregates. It helps understand the overall structure of the economy in theoretical and contemporary perspectives for graduate students.
3. Macro Economics paper provides theoretical foundation of some advanced issues and policies.
4. The paper attempts to discuss the functional relationships between economic aggregates. It helps understand the overall structure of the economy in a theoretical perspective at higher level.
5. To familiarize students with the major perspectives of Macroeconomic development.
6. To sensitize Scholars with the nature and magnitude of the main contemporary issues in development at national level.
7. To acquaint them with the Indian development challenges and enables them to development a sound understanding and problem solving exposure.
8. To familiarize students with the major perspectives of Macroeconomic development. To sensitize Scholars with the nature and magnitude of the main contemporary issues in development at national level.
9. To acquaint them with the Indian development challenges and enables them to development a sound understanding and problem solving exposure.
10. Students will understand and demonstrate core macro-economic terms, concepts, and theories.

VI. Mathematical Methods

1. Paper aims to familiarize the students with basic statistical techniques.
2. Whole syllabus is divided in to two parts; descriptive and inferential statistics, with major emphasis on inferential statistics.
3. Statistical techniques are discussed with examples from economics.
4. The student is exposed to economic concepts in mathematical format through simple illustrations and prepares the ground for more scientific study.
5. Econometric methods will prove particularly useful for understanding the interrelationships in the economic variables.
6. Students will learn the use of econometrics with greater precision and establishing such relationships.
7. Students understand the analytical geometry, derivatives, partial derivatives, integration and Matrices.
8. It enables the students learn the applications of mathematics in demand and supply, linear curves, marginal concepts in cost and revenue, maxima and minima conditions and input – output analysis.
9. Foundation to understand the axiomatic approach to explain micro economic theories.
10. Mathematical calculation of static optimization, static optimization and its related concepts.

Semester IV

VII. Marco Economics I

1. Students will be able to differentiate between positive and normative statements.
2. Students will be able to analyze data to solve complex economic problems.
3. Students will understand general economic concepts like supply & demand, comparative advantage, opportunity cost, etc.
4. Students will understand macroeconomic concepts wise GDP, unemployment, aggregate demand/supply, etc.
5. The overall structure of the economy in theoretical and contemporary perspectives for graduate students.

6. Students gain knowledge on the subject matter of macro economics, national income concepts and consumption concepts.
7. Students also gain theoretical knowledge of classical and Keynesian theories.
8. Detailed study on inflation and deflation, what are the conditions are situated in the modern economy.
9. The kinds, types and rate of inflation and deflation how demanded and drive for the economy.
10. Students are studied various economy policies like monetary and fiscal policy and uses of the policy within the uses how to develop the economy.\

VIII. Mathematical Economics

1. In order to understand economic problems clearly, the knowledge of quantitative techniques in the area of mathematics and statistics is very essential.
2. This course is meant to train the student in this direction.
3. Students will have skills related to the basic concepts of Mathematics such as straight line, differentiation, Partial derivatives, Integral calculus and Matrices.
4. The students can define econometrics and will have knowledge on various stages of econometric methods.
5. They will be able to distinguish between population and sample regression functions and systematic and random components in regression models.
6. They will acquire computational skills to estimate regression coefficients using sample observations and intermediate values.
7. The students will have learned the properties and assumptions of simple linear regression model and problems due to violations of these assumptions.
8. They will be able to apply the model estimation skill to test the hypothesis regarding parameters in the model.

Semester V

IX. Monetary Economics

1. Taking in to account to the fast development of Indian financial sector and increasing role of monetary policy, paper aims to generate theoretical and applied understanding of monetary economics.
2. Concept of money, money and near money. Supply of money, definition and measures.
3. Meaning, functions, assets and liabilities-balancing liquidity with profitability, process of credit creation by commercial banks.
4. Develops an understanding of various aspects public choice theory.
5. Familiarity with the different aspects of monetary aspects federalism.
6. Understanding of various aspects of new monetary policy and debt management.
7. The introduction, development and advancement of new subjects associated with economics and their analytical applications decipher many unknown behaviours of human beings.
8. By the introduction of the conditions of rationality in the areas of consumption, production and distribution, it tries to nurture rational thinking.
9. The students of economics can go for higher studies in the fields of economics.
10. Business Administration and Education after attaining under-graduation in economics.

X. History of Economic Thought

1. Compare and analyze the present changes in economic thinking.
2. Debates which school of economic thought would be most apt for our economy.
3. To gain knowledge on the perception of economic thinking of mercantilism and physiocracy.
4. Students will have a clear understanding of evolution of thought from classical to Keynesian.
5. Students able to learn the contributions made by Karl Marx and Alfred Marshall.
6. Students gain insights on Indian economics thinkers.
7. To gain knowledge on the perception of economic thinking of mercantilism and physiocracy.

8. Students will have a clear understanding of evolution of thought from classical to Keynesian.
9. Understanding the marginalize revolution and its application to the theories of general and partial equilibrium analyses.
10. Familiarity with the features and theories of Institutional Economics.

XI. Indian Economy

1. Indian economy course examines specific polices and their impact in shaping trends in key economic indicators in India. It highlights major policy debates and evaluates the Indian empirical evidence.
2. Topics include economic development since independence, population and human development, growth and distribution, and international comparisons.
3. Given the rapid changes taking place in India, the paper gives an insight into economic development which has taken place since independence, in terms of structural changes, savings and investments among other things. It also talks about demographic trends and issues, education, health and malnutrition, policies towards poverty, inequality, and unemployment. It provides information on these issues not only in terms of India, but also provides an international comparison to give a wider outlook to students.
4. Familiarize the students about the various concepts of national income.
5. Create awareness about the significance of agriculture, industry and service sectors of the economy.
6. Provide a basic understanding of the Indian economy. To enable the students to have an understanding of the various issues of the Indian economy particularly most important factor is agriculture.
7. Enable the students to comprehend and critically appraise current issues and problems of Indian economy.
8. The focus of this course is on the development of Indian economy since Independence and understands the importance of planning undertaken by the government of India.
9. Given the rapid changes taking place in India, the paper gives an insight into economic development which has taken place since independence, in terms of structural changes, savings and investments among other things. It also talks about demographic trends and

issues, education, health and malnutrition, policies towards poverty, inequality, and unemployment.

10. It provides information on these issues not only in terms of India, but also provides an international comparison to give a wider outlook to students.

XII. Application of Computer in Economics

1. Application of computer paper gives lighted on get hands-on training for well-knowing systematic knowledge, input and output devices.
2. We are gives practical training to the students how to operate windows, MS-word, MS-excel and power point.
3. The understanding of the importance of technology in development of a country with the help of practical knowledge and experienced differenced type of internet how it works.
4. Students understand the statistical concepts, calculate and apply measures of location and measures of dispersion. It will be teach for student's further studies improvement that is apply statistical tools for the research purpose.
5. Students are learned about what are input and output devices and they known uses of complier and assembler of the computer.
6. Windows are important one in the computer to create new documentation and presentation.
7. The present the data in graphical forms and classify the data into individual series, discrete series and continuous series with the help of micro soft office.
8. To familiarize the students with the statistical tools and techniques, enable them to apply these tools in economics.
9. We are educated to the students what is cell, column, toolbar, worksheets and row with excel sheet and spreadsheet well as they have exercised all the formats how it and how it works.
10. Students are understands what is internet and how it should be connected the globe, among the internet how the internet terminology will happen and they well known about internet terminology.

XIII. Economics of Marketing

1. Explain the basic concepts and terms used in capital market, money market and instruments, classify the functions of capital market.
2. Solve the problems arising in primary and secondary markets.
3. Analyze the functions of stock market, SEBI and its regulations to monitor the stock market.
4. Provides the students to know the role of marketing in economic development and to understand the marketing information system, marketing research, channels of distribution and sales promotion.
5. Students learn the factors which are responsible for the emergence of different economic systems and learn about the framework, working mechanism, and distinctive features of different economic systems.
6. The students to understand the relevance of different economic systems in relation to the present economic environment.
7. Students will learn the basic concept of economics, how markets organized core economic activities such as production, distribution, consumption and the growth of productive resources.
8. There are other courses at either undergraduate or postgraduate level that cover some aspects of marketing analytics.
9. There is no course that covers the state-of-the-art marketing analytics tools and frameworks.
10. Moreover, there is no course at the ANU which combines cases, tools, frameworks, and software in this area.

Semester VI

XIV. Environmental Studies

1. This course is meant to provide students an exposure to different debates and approaches in environmental economics.
2. It also provides theoretical and applied understanding on diverse frameworks of national and global environmental problems, analytical tools, institutional and regulatory mechanisms etc.

3. To make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country.
4. The paper also enlightens the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques.
5. To gradually develop the capability of a student so that he/she masters the significance and scope of environmental economics and also understand the environmental resource problems, environmental and social services and the problem of valuation of these services, environment-economy linkages.
6. The course will enhance knowledge of the environment in which businesses operates.
7. Student will understand the economic, operational and financial framework with particular application to the transaction of insurance business.
8. It will result in sharpening the analytical faculty of the student, by highlighting an integrated approach to the functioning aspects of the Indian business environment.
9. Students learn the relationship between environment and economics and the current environmental problems around the globe. Also get awareness in the conservation of economic resources.
10. Students also learn the ways and means to enhance the environmental quality.

XV. Fiscal Economics

1. Enable to provide a fundamental knowledge in fiscal economics. Students gain an understanding of core principles of fiscal economics.
2. The knowledge on the sources of revenue and different types of taxation and public expenditure.
3. Students gain an understanding of fiscal policy, instruments and knowledge on the principles of federal finance and budgetary procedures.
4. Represent demand, in graphical form, including the downward slope of the demand curve and what shifts the demand curve.

5. To identify and appraise economic development policy failures, and suggest adjustments or alternatives.
6. To analyze and describe significant policy options available to government and fiscal organization to address economic development challenges.
7. Students will trace the origins of various processes of fiscal economic integration, and to discuss their implications for the international patterns of productive specialization.
8. To introduce to the new policy or scheme of GST, we are gives some ideas in practical to gain knowledge to the students.
9. Teaches the public debt, how to get and how will be control it and how the government formulates finance commission and explained entire activity and policies of fiscal policy.
10. To explained how to get welfare of the state and society within that what are the major principle is available to get social advantage.

XVI. International Economics

1. To provide strong theoretical background to the students on the subject of international trade. It also help understands the empirical aspects such as trade reforms and their impact on India economy.
2. Nature and scope of international economics, international economics as a distinct branch of economics, basis of international trade-Ricardo's theory of international trade.
3. Types and causes of disequilibrium, measures of correct disequilibrium. Foreign exchange rates, determination of equilibrium exchange rates.
4. Understand the nature and scope of international economics, explain the Ricardo's theory of international trade, explain the structure of balance of payment, disequilibrium in balance of payment, causes of disequilibrium.
5. Describe the foreign exchange rate and determine its equilibrium exchange rate. The student will be acquainted with economic concepts and models of international trade.
6. Student will become aware about international trade blocks and their importance. The course is helpful to develop a systematic exposition of models that try to explain composition, direction and consequences of international trade.

7. After completing the course, the students will have knowledge on basic conceptual tools needed to analyze trade among countries. They will gain an insight into the classical and recent theories, which explain why countries trade and what are the ramifications of trade. They will be able to identify suitable trade policy a country can formulate to manage trade relations with other countries.
8. They will have learned recording of the economic transactions among countries and be able to suggest measures to remove imbalance in the transactions.
9. They will also learn the role played by international liquidity. They will be able to appraise the benefits and threats of international capital movement.
10. The students will take the cognizance of international institutional arrangements to counter the problems in international trade and capital and extend the benefits to all countries.

XVII. Tamil Nadu Economy

1. The course will help in sharpening the analytical faculty of the students.
2. It will highlight an integrated approach to the functioning aspects of the Tamil Nadu economy, keeping in view the scope for alternative approaches.
3. Explained about how the state the government maintain and distributed the domestic product, to increase the knowledge about per-capita income calculation, geographical and demographical features of Tamil Nadu.
4. The available resources of land, water, forest and mineral among those resources should be used for the purpose of local economy and public.
5. Enable the students to comprehend and critically appraise current issues and problems of Tamil economy like rain fed and road infrastructure.
6. Student will become aware about local trade blocks and their importance.
7. The course is helpful to develop a systematic exposition of models that try to explain composition, direction and consequences of international trade.
8. To sensitize with the nature and magnitude of the main contemporary issues in development at state level.

9. To give the knowledge of agriculture, poultry development, fisheries, land reforms, industrial development and employment opportunities and pattern of service sectors and growth of employment.
10. Students are known to the actions of manage and the movement of population status, poverty level, learn how to reduce the poverty and productivity of Tamil Nadu economy.

XVIII. Economics of Development and Planning

1. It helps in developing understanding of the students related to different sectors of Indian Economy.
2. Students will be able to understand how planning and infrastructure support can develop an economy.
3. To explain development economic growth theories, international trade development theories, and related economic development theories.
4. Learn hardcore economic prescriptions to development, concerns hitherto relegated to background like education, health, sanitation and infrastructural development, have found a place of pride in explaining the preference of various economies.
5. After studying the structure aspects of Indian economy, students will be exposed to economic reforms in India and problems of Indian economy.
6. It will help in developing the conceptual framework of government policies and programmes.
7. It will acquaint students with latest data and will enhance analytical skills.
8. Student will be able to understand the landscape of Indian economy.
9. Students will learn how to think critically about public policy issues.

SAIVA BHANU KSHATRIYA COLLEGE
ARUPPUKOTTAI
ANCILLARY BOTANY
&
NME BOTANY

PROGRAM OUTCOME

PO1 -Knowledge: Understand and Update the Knowledge of Different Group of Plants in Terms of their Habitat, Structure and Reproduction

PO2 -Practical skills: learn from the Field and in the Laboratory and Gain Experience by

- Observation in Morphological Studies with Specimens and Slides,
- Dissection in Taxonomical Studies,
- Taking Section in Anatomical Studies,
- Practices the Horticulture Techniques and
- Analysis the Physiological Experiments

PO3 -Intellectual skills: Thinking of Different Functions of Plants and their Environmental Relationships

PO4 Society: Communicate the Knowledge of Plants and their Role in Society by Social Interaction

PO5 Environment and Sustainability: Understand the Impact of the Plant Diversity in Environmental Contexts and Sustainable Development

PO6 Ethics: Apply Ethical Principles and Commit to Environmental Ethics and Responsibilities and Norms of the Biodiversity Conservation.

PROGRAM SPECIFIC OUTCOME

PSO1 –To Update the Knowledge of Different Groups of Plants and their Role in Ecology and Society

PSO2 –To Build Life Skills in Horticulture, Mushroom Cultivation, Vermicomposting, Coir Pith Compositing, Biofertilizers and Biofuel

PSO3 – To Understand the Role of Medicinal Plants for Human Health Aspects

COURSE OUTCOME

S.N	SUBJECT	SUBJECT CODE	PAPER	COURSE OUTCOMES
01	Ancillary Botany Theory Paper-I	SBYJA11	PLANT DIVERSITY	<p>CO1-To Understand the General Characters of Algae and the Structure and Reproduction of Algae -Oscillatoria, Oedogonium and Sargassum.</p> <p>CO2-To Know about the Economic Importance of Algae.</p> <p>CO3-To Understand the General Characters of Fungi and the Structure and Reproduction of Fungi –Aspergillus and Puccinia.</p> <p>CO4-To Know about the Economic Importance of Fungi.</p> <p>CO5-To Understand the General Characters of Bryophytes and the Structure and Reproduction of Funaria.</p> <p>CO6-To Know about the Economic Importance of Bryophytes.</p> <p>CO7-To Understand the General Characters of Pteridophytes and the Structure and Reproduction of Selaginella.</p> <p>CO8-To Know about the Economic Importance of Pteridophytes.</p> <p>CO9-To Understand the General Characters of Gymnosperm and the Structure and Reproduction of Pinus.</p> <p>CO10-To Know about the Economic Importance of Gymnosperm.</p>
02	Ancillary Botany Theory Paper-II	SBYJA21	PLANT ECOLOGY & APPLIED BOTANY	<p>CO1 -To Understand the Different Concepts of Ecosystem</p> <p>CO2 -To Recognize the Adaptation of Hydrophytes, Xerophytes and Halophytes.</p>

				<p>CO3 –To Know the Different Kinds vegetation in Tamil Nadu and also the Methods of Study of Vegetation.</p> <p>CO4 –To Know the Different Steps in Tissue Culture and their Application.</p> <p>CO5 –To Develop Life Skill in the Cultivation Of Mushroom and Preparation of Biofertilizers, Compost and Biofuel</p>
03	Ancillary Botany Theory Paper-III	SBYJA31	PLANT TAXONOMY, MEDICINAL BOTANY & EMBRYOLOGY OF ANGIOSPERM	<p>CO1 – To Acquire the Knowledge of Morphology of Root, Stem, Leaf, Inflorescence, Flowers, Fruits and Seeds for the Technical Description of Plant</p> <p>CO2 –To Practice the Technical Description of Selected Families – Nymphaeaceae, Rutaceae, Caesalpinaceae, Asclepiadaceae, Lamiaceae, Euphorbiaceae and Poaceae</p> <p>CO3 – To Understand the Structure and Development of Anther, Pollen, Male Gametophyte, Ovule, Embryo Sac and Embryo</p> <p>CO4 –To Analyses the Systematic Position, Morphology and Medicinal Uses of Beal Tree, Neem, Coriander, Malabar Lily, Holy Basil and Stone Breaker</p> <p>CO5 -To Find Solutions from Medicinal Plants for Health Problems, Disorders and Disease of Human Beings</p>
04	Ancillary Botany Theory Paper-IV	SBYJA41	PLANT PHYSIOLOGY & HORTICULTURE	<p>CO1 –To Know Importance and Scope of Plant Physiology.</p> <p>CO2 -To Know the Different Physiological Function of Plant</p> <p>CO3 -To Understand the Concept and Mechanism of Absorption, Ascent of Sap, Transpiration, Photosynthesis, Respiration and the Role of Plant Growth Regulators</p>

				<p>CO4 -To Understand the Horticulture Techniques like Cutting, Layering and Grafting.</p> <p>CO5 -To Know about the Planning and Layout of Kitchen Gardening, Orchard, Indoor Gardening and Hanging Pots, Bonsai, Rockery and Methods of Storage of Fruits.</p>
05	NME Botany Theory Paper-I	SBYJN51	MUSHROOM CULTIVATION	<p>CO1 –Understand the Historical Background of Mushroom, Present Status of Mushroom Cultivation in India and Distribution of Edible Mushroom in India</p> <p>CO2 –Know General Characters of Mushroom, Edible Mushroom and Non – Edible Mushroom, Nutritional Value, Medicinal Value and Importance of Mushroom, Recipes of Mushroom and the Importance Of Ganoderma,</p> <p>CO3 – To Know the Preparation and Storage of Spawn and Substratum Storage of Spawn</p> <p>CO4 -To Know the Cultivation Methods and Harvesting of Button Mushroom and Milky Mushroom and Oyster Mushroom.</p> <p>CO5 –To Understand the Different Pests and Disease affecting Mushroom and their Control Measures.</p>
06	NME Botany Theory Paper-II	SBYJN61	PLANT UTILITY AND EXPLOITATION	<p>CO1 –To Know the Origin of Cultivated Plants, Vavilov’s Centre’s of Origin.</p> <p>CO2 –To Understand the Plants as Source for Food, Fodder, Fibres, Spices, Beverages Drugs, Narcotics, Insecticides, Timber, Gums, Resin, Dyes, Latex, Cellulose, Starch and Perfume.</p> <p>CO3 - To Know the Importance of Ethno Botany in India Context</p> <p>CO4 –To Understand the Concepts of Energy Plantation</p> <p>CO5 - To Understand the Importance of Botanical Gardens and Herbaria.</p>

Course Outcomes

**Subject Name : MECHANICS, PROPERTIES OF MATTER
AND SOUND**

Subject Code : SPHJA11

In this Course, the students will

- CO1. Understand the concept of Physics law, friction and energy
- CO2. Know the concepts of angular momentum, torque and moment of inertia.
- CO3. Get the in-depth knowledge about principle of gravity.
- CO4. Learn about the principles of Elasticity and bending of beams
- CO5. The types of wave motions and their equations

Subject Name : THERMAL PHYSICS

Subject Code : SPHJA21

In this Course, the students will

- CO1. Get the knowledge about the basics of specific heat capacity and determination of specific heat capacities
- CO2. Understand the concepts conduction, convection and radiation
- CO3. Learn about Stefan's law, pyrometry and solar constant.
- CO4. Acquire the knowledge of the kinetic theory and transport phenomena of gases
- CO5. Study the Carnot's engine, Joule- Thomson effect and liquefaction of gases

Subject Name : ELECTRICITY & ELECTRONICS

Subject Code : SPHJA31

In this Course, the students will

CO1: Study about the fundamentals electrostatic parameters, Gauss's law and its application, Potential and Capacitance

CO2: Learn about Kirchhoff's Laws and principle of potentiometer.

CO3: Understand the principle & working of galvanometer and LCR circuits.

CO4: Know about performance of transistor amplifiers and operational amplifier

CO5: Study the principle and mathematical concepts of electronics

Subject Name : OPTICS, SPECTROSCOPY & MODERN PHYSICS

Subject Code : SPHJA41

In this Course, the students will

CO1. Understand the basics of optics

CO2. Get knowledge about the different technique in spectroscopy and photoelectricity.

CO3. Learn the basic knowledge about quantum physics

CO4. Understand the concept of relativity

SBK College, Aruppukottai
Department of Tamil (Unaided)
Course Outcome

I B.A. Tamil

ATMJC11 - இக்கால இலக்கியம்:

கதை, நாடகம், கவிதை, கட்டுரை முதலான இக்கால இலக்கிய வடிவங்கள் இப்பாடத்தில் உள்ளன. இதனைப் படிப்பதால் மாணவர்களுக்கு எழுத்தாற்றலும், நடிப்பாற்றலும் மேம்படுகிறது. மாணவர்கள் கதை, கட்டுரை, கவிதை எழுதவும் நாடகம் நடிக்கவும் கற்றுக் கொள்கிறார்கள்.

ATMJC12 - இலக்கணம் - நன்னூல் (எழுத்து):

எழுத்தியல்:

- முதல் எழுத்துக்கள், சார்பெழுத்துக்கள், எழுத்துக்களின் பிறப்பு முறை குறித்து அறிதல்.
- மொழி முதல் எழுத்துக்கள், மொழி இறுதி எழுத்துக்கள், இடைநிலை எழுத்துக்கள் பற்றிய விளக்கம்.

பதவியில்:

- ஓரெழுத்து ஒரு மொழிகள், பகுபத உறுப்புகள், காலம் காட்டும் விசுதிகள் போன்ற இலக்கண நெறிமுறைகளை முறைப்படுத்தி தெரிந்து கொள்ள முடிகிறது.

மெய்யீற்றுப்புணரியல்:

- மெய்யெழுத்துக்களை இறுதியாக உடைய சொற்களின் புணர்ச்சி நிலையினை அறிய முடிகின்றது.

உருபு புணரியல்:

- எட்டு வேற்றுமை உருபுகள் பற்றியும், வேற்றுமை உருபுகள் நிலை மொழியோடும் வருமொழியோடும் புணரும் விதத்தினைப் பற்றியும் அறிந்து கொள்ளுதல்.

ATMJJA11 - தமிழக வரலாறும் பண்பாடும் - I:

- பண்டைய மன்னர்களின் வீரம், கொடை, ஆட்சி சிறப்பு, வெற்றி சிறப்பு தோற்றம் மன்னர்களை மதித்தப்பண்பு, மன்னர்கள் செய்த அறப்பணிகள் மற்றும் சமுதாய கலாச்சாரப் பண்பாட்டை அறிந்துக்கொள்கின்றன
- தமிழரின் வரலாற்றையும் நாகரீக உணர்ச்சியும் பலப்படுத்துதல்.

- இலக்கியங்களை ஆழ்ந்து கற்பதற்கு உறுதியாக வரலாற்றுப் பின்புலத்தை அறிதல்.

UVEJV11 - Value Education:

- ஒருவருடைய ஆளுமை நன்னடத்தை ஒழுக்கம் போன்ற சிறந்த பண்புகளை மாணவர்கள் அறிந்துகொள்கின்றனர்.
- மதிப்புக்கல்வி என்பதன் கருத்து பற்றி புரிந்து கொள்வது.

UPCLP11 - Professional English I - Arts and Social Sciences:

- Students listening to live audio lectures to understand meaning, syntax and information.
- Comprehend the basics of the English language.
- New words and concepts introduced them to vocabulary enrichment.
- Speak and write without any errors.
- Students knowledge of the interview method through group discussion

UTMJL11 - Part I தமிழ் - பழந்தமிழ் இலக்கியமும் உரைநடையும்:

- சங்க இலக்கியங்களான எட்டுத்தொகை, பத்துப்பாட்டு, நீதி நூல்கள், உரைநடைப்பகுதிகள் பகுதிகள் வாயிலாக தமிழர்களின் வாழ்க்கை முறை, பண்பாடு, வீரம், கொடைத்திறம் பற்றி அறிந்து கொள்கின்றனர்.
- படைப்பாற்றல் பகுத்து மூலம் கடிதத்தின் அமைப்பையும் எழுதும் முறையையும் அறிந்து கொள்கின்றனர்.

ATMJJC21 - அற இலக்கியம்:

மனிதன், வாய்மை, ஈதல் முதலான செய்ய வேண்டிய அறச்செயல்கள் பற்றியும், கொலை, களவு முதலான செய்யக் கூடாத மறச் செயல்கள் பற்றியும் அற இலக்கியம் கற்பிக்கிறது. அற இலக்கியத்தைப் படிப்பதால் மாணவர்கள் நல்ல குடிமகனாக உருவாக முடியும்.

ATMJJC22 - இலக்கணம் - நன்னூல் (சொல்):

பெயரியல்:

- சொல்லின் பொது இலக்கணம், திணை, பால், வழக்கு, சொற்களின், வகைகள், பெயர்ச்சொற்கள் வரக்கூடிய முறைகள் குறித்தும் ஆகுபெயர், எட்டு வேற்றுமை உருபுகள் பற்றியும் அறிய பயன்படுகிறது.

வினையியல்:

- ஒரு மொழிக்கு இன்றியமையாத உறுப்பாக விளங்குவது வினைச்சொல் ஆகும். அவ்வகையில் தெரிநிலை வினை, குறிப்பு வினை, வினைமுற்றுப் பெயரெச்சம், வினையெச்சம் பற்றிய இலக்கணங்களை தெரியப்படுத்தவும் அதன் மூலம் மேற்கூறியவற்றை முறைப்படுத்தி விளக்கும் விதமாகவும் அமைகின்றது.

பொதுவியல்:

- நான்கு இயல்களிலுள் சொல்லப்படாத கருத்துக்கள் பொதுவியல் என்னும் இயலில் நான்கு சொற்களின் சிறப்புகளை நன்னூலார் மாணவர்களுக்கு புரியவைத்துள்ளதை அறிய முடிகின்றது.

இடையியல்:

- இடைச்சொல்லின் இலக்கணம், வகைகள், முன்னிலை அசை சொற்கள் குறித்து அறிய முடிகின்றது.

உரியியல்:

- உரிச்சொல்லின் பொது இலக்கணம், ஓரறிவு உயிர்கள் முதல் ஐந்தறிவு உயிர்கள் வரை புலன் உணர்வை அடிப்படையாகக் கொண்டு திகழ்பவை என்பதைப் பற்றியும் காண முடிகிறது.

ATMJ21 - தமிழக வரலாறும் பண்பாடும் - II:

- பண்டைய மன்னர்களின் வீரம், கொடை, ஆட்சி சிறப்பு, வெற்றி சிறப்பு தோற்றம் மன்னர்களை மதித்தப்பண்பு. மன்னர்கள் செய்த அறப்பணிகள் மற்றும் சமுதாய கலாச்சாரப் பண்பாட்டை அறிந்துக்கொள்கின்றன.
- தமிழரின் வரலாற்றையும் நாகரீக உணர்ச்சியும் பலப்படுத்துதல்.
- இலக்கியங்களை ஆழ்ந்து கற்பதற்கு உறுதியாக வரலாற்றுப் பின்புலத்தை அறிதல்.
- கல்வெட்டுகள், இலக்கியங்கள், வெளிநாட்டவர் பற்றிய செய்திகள், பழைய கற்காலம், புதிய கற்காலம், உலோக காலம் பற்றிய செய்திகளை அறிந்துக்கொள்கின்றன.

UESJD21 - Environmental Studies:

- சுற்றுச்சூழலின் பல்வேறு அறிவியல் தன்மைகளையும், புதுப்பிக்க மற்றும் புதுப்பிக்க இயலாத இயற்கை ஆற்றல் வளங்கள் பற்றியும் அறிந்து கொள்கின்றனர்.
- மக்கள் தொகைப் பெருக்கத்தால் ஏற்படக்கூடிய சுற்றுச்சூழல் பாதிப்பு குறித்தும் அறிகின்றனர்.

UTMJL21 - Part I காப்பிய இலக்கியமும் நாடகமும்:

- காப்பியங்களின் வழி அறம், பொருள், இன்பம் போன்ற வாழ்வியல் உறுதிப்பொருட்களை மாணவர்கள் அறிந்துக் கொள்கின்றனர்.
- பண்டையக்கால கால மக்களின் காதல் வீரம் போன்ற பண்புகளை மக்களுக்கு எடுத்து இயல்புகிறது.
- பல்வகை யாப்பில் காப்பியங்கள் எழுந்ததைப் பற்றி காப்பிய கற்றுக்கொள்கின்றனர்.
- நாடகத்தின் தோற்றம் வளர்ச்சி மற்றும் அதன் முக்கியத்துவம் பற்றி மாணவர்கள் அறிந்துக்கொள்கின்றனர்.

II B.A. Tamil

ATMJC31 - பக்தி இலக்கியம்

- பக்தி இலக்கியத்தின் தோற்றம், வளர்ச்சியினை அறிய இயலும்.
- பக்தி இலக்கியத்தின் வழி இறைத் தத்துவமும், புராண நம்பிக்கையையும் சூழலியல் சிந்தனைகளையும் மதிப்பிட முடியும்.
- சிவனடியார்களின் சிறப்புகளையும், சிவனின் திருவிளையாடல்களையும் பட்டியலிட்டு உணர முடியும்.
- ஆழ்வார்களின் பக்தி திறனை மதிப்பிட்டுத் தெளிவு பெற முடியும்.
- சைவ, வைணவ இலக்கியங்களை பண்பாட்டு நோக்கில் ஒப்பிட்டு அறிய முடியும்.

ATMJC32 - இலக்கணம் - யாப்பு:

சங்க கால இலக்கியங்களில் உள்ள வெண்பா, ஆசிரியப்பா, கலிப்பா, வஞ்சிப்பா முதலான பா வகைகள் பற்றி கற்பிக்கப்படுகிறது. ஒரு சங்க இலக்கியப் பாடலைப் பார்த்தவுடன் மாணவர்கள் அதனைச் சீர், தளை பிரித்து அதன் 'பா' வகையினை அறியக் கற்றுக் கொள்கிறார்கள். இப்பாடத்தைக் கற்பதால் அவர்கள் 'பா' இயற்றும் ஆற்றலைப் பெறுகிறார்கள்.

ATMJA31 - மக்கள் தகவல் தொடர்பியல் - அறிமுகம்:

- மக்கள் தகவல் தொடர்பியல் பாடத்தில் இடம்பெறும் பகுதிகளனைத்தும் இன்றைய சூழ்நிலைக்கேற்ப பொருந்தி பயன்தரும் வகையில் உள்ளதை உணர இயலும்.

- தொடர்பியல் சாதனங்களின் வகைகள், இதழ்கள் வளர்ச்சி சமுதாயத்தில் இதழ்களின் பங்கு, நெறிமுறைகள், நிர்வாக அமைப்பு பற்றி அறிய உதவுகிறது.
- வானொலி, தொலைக்காட்சி வரலாறு, இந்தியத் திரைப்பட வரலாறு, சினிமாவின் தொடக்க காலம், திரைப்பட விருதுகள் பற்றி அறிய முடிகிறது.
- தகவல் தொழில் நுட்பக் கருவிகள், கணினி, இணையம் ஆகிய தொடர்பு ஊடகங்களின் ஆற்றலையும் பயன்களையும் மேம்படுத்திக் காண இயலும்.

ATMJA31 - மொழிபெயர்ப்பியல்:

- மொழிபெயர்ப்பின் சிறப்பு மொழிபெயர்ப்பாளரின் தகுதிகள் மொழிபெயர்ப்பு வகைகள் பழமொழிகளின் திறமை போன்றவற்றை அறிதல்.
- சிறுகதை கவிதை புதினம் பத்திரிக்கை வானொலி கணினி போன்ற பல்வேறு மொழிபெயர்ப்புகள் குறித்து பயனடைதல்.
- உலக மொழிகள் அனைத்திலும் உள்ள அறிவியல் தொழிநுட்பம் படைப்புகள் போன்றவற்றை மொழி இனம் பண்பாடு கடந்த அறிவையும் நட்பையும் வளர்த்தல்.

UTMJL31 - Part I - Tamil - இடைக்கால இலக்கியமும் புதினமும்:

- பக்தியின் திறத்தையும், அது தரும் மன வலியையும் அறிய இயலும்.
- 96 வகைச் சிற்றிலக்கியங்களில் சிலவற்றை அறிய முடிந்தது.
- புதின இலக்கியம் வழியாக சமூக சிக்கல்களைப் பட்டியலிட்டு சமூகத்துடன் பொருத்தமுற வாழ இயலும்.
- சொற்களின் வகைகள் மற்றும் படிநிலைகள் பற்றியும் அறிய இயலும்.
- படைப்பாக்க நெறிகளைத் தொகுத்துக் காண இயலும்.
- சைவ, வைணவ, சிற்றிலக்கிய காலகட்டத்தில் பக்தியின் சிறப்பையும் இலக்கியங்களின் வளர்ச்சியையும் அறிய இயலும்.

ATMJC41 - காப்பிய இலக்கியம்:

- காப்பியங்கள் வரலாற்றைப் பதிவு செய்து மக்களுக்கு காலந்தோறும் பண்பாட்டை கடத்தும் பணி செய்பவை காப்பியங்களைக் கற்பதன் மூலம் வாழ்க்கை நெறிகள், ஒழுக்கம், பண்டைய பண்பாட்டுக் கலாச்சார நிகழ்வுகள், ஆடல், பாடல், இசை, இசைக்கருவிகள், வாணிகம் பொருளாதாரம், வரிவிதிப்பு முறைகள், கற்பனை வளம்,

காதல் வாழ்க்கை, நாட்டின் வளம், காடுகளின் தன்மை, ஐந்திணை வாழ்மக்களின் ஒழுக்க நெறிமுறைகளை, தெய்வ வழிபாடு போன்றவற்றைத் தெரிந்து கொள்கிறார்.

- காப்பியங்களை கற்பதால் மாணவர்கள் அறம், பொருள், இன்பம், வீடு என்னும் நான்கு உறுதிப்பொருள்களை கற்றுக் கொள்கிறார்கள்.

ATMJC42 - இலக்கணம் - அணி:

- பொதுவணியியல் மூலமாக செய்யுள் வகைகள், செய்யுள் நெறிகளை அறிந்து கொள்கிறார்.
- பொருளணியியல் வாயிலாக உவமை அணி, உருவக அணி, தீவக அணி, ஒட்டணி, மடக்கணி, அதிசயவணி போன்ற அணியின் பல்வேறு வகைகளை தெரிந்து கொள்கிறார்.
- நுட்பவணி, தன்மேம்பாட்டுரையணி அவநுதியணி, விரோதவணி ஆகியவற்றின் இயல்பறிந்து இலக்கிய இன்பம் பெறுகிறார்.
- சொல்லணியில் கற்பதன் மூலம் மடக்கு இலக்கணம், சித்திரகவியின் வகைகள், வழக்களின் வகைகளை கண்டறிகிறார்.
- தண்டியலங்காரம் கற்பதன் மூலம் மாணவர்கள் தமிழ்ச் செய்யுள்களின் பெருமையையும் தமிழ்ப்புலவர்களின் அறிவுக்கூர்மையையும் உணர்ந்து கொள்கிறார்.

ATMJA41 - நாட்டுப்புறவியல்:

- நாட்டுப்புற இலக்கியங்கள், பண்பாட்டு கருத்தாக்கங்களை அறிந்திட வாய்ப்பு உண்டு.
- நாட்டுப்புறக் கலைகளை வாழ்வியலோடு இணைத்துக் காண இயலும்.
- நாட்டுப்புறக் கோட்பாடுகள் குறித்தும் நாட்டுப்புறக் கதைகள் குறித்தும் மதிப்பிட இயலும்.
- நாட்டுப்புற விளையாட்டுகள், நாட்டுப்புற மருத்துவம் ஆகியவற்றையும் கற்று பயன்படுத்த இயலும்.
- நாட்டுப்புறக் கதைப் பாடல்களின் தன்மையினைப் பகுத்தாய முடியும்.

ATMJS41 - அறிவியல் தமிழ்:

- காலத்திற்கு ஏற்ப தமிழ் மொழியில் அறிவியல் சிந்தனைகளையும் அறிவியல் ஆக்கங்களையும் வளர்த்தல்.

- நவீன அறிவியல் தொழில்நுட்பத்தையும் தகவல் தொழில் நுட்பத்தையும் தமிழில் அறிந்து கொள்ளுதல்.
- பழந்தமிழரின் அறிவியல் சிந்தனை உலகளவில் தமிழ்மொழியின் அறிவியல் சிந்தனைகள் தமிழ் ஆக்கங்கள் வழி பயன்பெறுதல்.

UTMJL41 - Part I - Tamil - இக்கால இலக்கியமும் சிறுகதையும்:

கவிதை, ஹைக்கூ, சிறுகதை, நாவல், நாடகம் போன்ற இக்கால இலக்கியத்தின் பல்வேறு வடிவங்களை அறிந்து கொள்வதுடன் அதன் வழி சமூக பண்பாட்டுக் கலாச்சார நெறிமுறைகளை தெரிந்து கொண்டு பழமையைக் காக்கவும், புதுமையில் திளைக்கவும் தாம் அறிந்தவற்றை, அனுபவித்த இன்ப துன்பங்களை கதைகள், கவிதைகள், கட்டுரைகளின் வாயிலாக வெளிப்படுத்தவும் திறன் பெறுகிறார்.

III B.A. Tamil

ATMJ51 - சிற்றிலக்கியம்:

- அறம், பொருள், இன்பம், வீடு என்னும் நான்கு உறுதிப்பொருள்களில் ஒன்றோ, இரண்டோ குறைவுபட அமைவது சிற்றிலக்கியம்.
- 96 வகை சிற்றிலக்கியங்களில் முக்கியமானதாக கருதப்படும் தூது, பரணி, பள்ளு, கலம்பகம், உலா, மடல், பிள்ளைத்தமிழ் முதலானவற்றை படித்து இன்புறுவதோடு செய்யுள்களில் அமைந்துள்ள கற்பனை நயம், தொடை நயம், அணி நயம், சொல்லழகு மற்றும் புலவர்களின் திறம் ஆகியவற்றை அறிந்து கொள்கிறார், பண்டைக்கால ஆடை அணிகலன்கள், பழக்க வழக்கங்கள், வாழ்க்கை முறை மற்றும் வளங்களை சிற்றிலக்கிய பகுதியின் மூலம் இன்பம் பெறுகிறார்.

ATMJ52 - அகம்:

தலைவன் தலைவியின் காதல் வாழ்க்கையை திணை அடிப்படையில் நம்பியகப்பொருள் கற்பிக்கிறது. இதன் மூலம் மாணவர்கள் சங்க கால மக்களின் அறத்துடன் கூடிய காதல் வாழ்க்கையையும், திருமண நிகழ்வுகளையும் அதன் பிறகு ஏற்படக்கூடிய சிக்கல்களையும், அதனைத் தீர்க்கும் விதத்தையும் அறிந்து கொள்கிறார்கள். திருமண வாழ்க்கையின் புரிதலை மாணவனுக்கு ஏற்படுத்துகிறது.

ATMJ53 - தமிழ் மொழி வரலாறும் இலக்கண வரலாறும்:

- உலக நாடுகளில் மொழியியல் சார்ந்த அனைத்து விஷயங்களையும் அறிதல்.
- மாற்றிலக்கணம் ஒலியன் ஒருவன் தொடரியல் போன்றவற்றின் வழி இலக்கண அறிவையும் மொழி அறிவையும் தமிழ் வழி கற்று கற்பிக்கும் முறையை அறிதல்.
- தமிழ் மொழி வடமொழியோடு உலக மொழிகள் பலவற்றின் இலக்கண மரபை அறிந்து மொழியின் கட்டமைப்பையும் அறிதல்.

ATMJ54 - இலக்கியத் திறனாய்வியல்:

- திறனாய்வு செய்யும் திறனை வளர்த்தல்.
- தமிழ் மரபில் உள்ள கோட்பாடுகளையும் கண்டறியச் செய்வதோடு கற்றுக்கொண்ட கோட்பாடுகளைக் கொண்டு புதிய படைப்பு திறனை வளர்த்தல்.

ATMJ51 - கவின் கலைகள்:

- தமிழர்களின் மிக நுட்பமான அழகுக்கலைகள் பற்றி அறிய இயலும்.
- கட்டடக்கலையின் சிறப்புக்கள், கோயில்களின் அமைப்பு, கற்றளிகள், குகைக்கோயில்கள் குறித்து அறிய வாய்ப்பு உருவாகிறது.
- சிற்பக்கலை மற்றும் ஓவியக்கலையின் நுட்பங்களைக் கற்பின் வாயிலாக அதனை நடைமுறை வாழ்க்கையிலும் பயன்பெற முடியும்.
- கூத்துக்கலையைக் கற்பதன் மூலம் தற்போது அழிவின் விளிம்பில் இருக்கும் இக்கலையைப் பற்றிய விழிப்புணர்வை ஏற்படுத்த முடியும்.

ATMJ51 - ஆளுமைத் திறன்:

- ஆளுமைப் பண்பு குறித்த அடிப்படைச் செய்திகளையும் ஆளுமையை தீர்மானிக்கும் பண்புகளையும் தன்னகத்தே வளர்த்துக் கொள்ள இயலும்.
- மாணவர்கள் பிறரைச் சார்ந்திராது தன்னைப் பற்றிய சுயமதிப்புகளை உருவாக்கிட வழி வகுக்கும்.
- குழுக்களாகச் செயல்பட்டு குழுவுக்குத் தலைமை தாங்கி வழி நடத்தி முரண்பாடுகளை களைவதற்கான வழிவகைகள் உண்டாக்க முடியும்.
- மன அழுத்தம், நேர மேலாண்மை, தகவல் தொடர்பு வரையிலான அனைத்தையும் நிர்வகிக்க கற்றுக் கொள்ள இயலும்.

- தங்களது நன்னடத்தை மற்றும் சமூக நன்னடத்தில் உண்டாகும் சிக்கல்களை களைய வழி வகுக்க முடியும்.

ATMJC61 - சங்க இலக்கியம்:

- சங்க இலக்கியங்கள் அக்காலக் கட்டத்தில் வாழ்ந்த தமிழர்களின் தினசரி வாழ்கை நிலைகளை படம் பிடித்துக் காட்டுவதாய் அமைகின்றன.
- மக்களின் பழக்க வழக்கங்கள், சகுனம் பார்க்கும் நம்பிக்கை சார்ந்த நிகழ்வுகள் குறித்து அறிய முடிகின்றது.
- மன்னர்களின் போர்த்திறம், வீரச் சிறப்பினைப் பற்றியும் தெரிந்து கொள்ள முடிகின்றது.
- திருமுருகாற்றுப்படையில் முருகப் பெருமானின் அறுபடை வீடுகள் பற்றிய சிறப்பினை காண முடிகின்றது.
- சோழ நாட்டின் தலை நகரான காவிரிப்பூம்பட்டினத்தின் சிறப்பு, செல்வ வளம், மக்கள் வாழ்க்கை முறை திறம்பட அமைந்திருப்பதைத் தெரிந்து கொள்ள முடிகின்றது.

ATMJC62 - இலக்கணம் - புறப்பொருள்:

பழங்கால மக்களின் வீரம், கொடை, மன்னர்களின் ஆட்சிச்சிறப்பு, வெற்றிச்சிறப்பு, படை, கொடை, அரண்மனை, மக்களைக் காத்த விதம், போரில் தோற்ற மன்னர்களின் மதித்த பண்பு, புலவர்களின் புலமைத்திறம், மன்னர்களின் ஆதரவு, மன்னர்கள் செய்த அறப்பணிகள் மற்றும் பண்பாட்டை மாணவர்கள் அறிய உதவுவதோடு முன்னோர்களின் சிறப்பினைத் தெரிந்து கொள்ளும் நிலைக்களனாகத் தெரிகிறது.

ATMJS61 - பேச்சுக்கலை:

- பேச்சின் மூலமாக தமிழ் இலக்கியங்களை படிக்கும் ஆர்வத்தைத் தூண்டுகல்.
- மாணவர்கள் மேடைப் பேச்சாற்றலை வளர்த்து தங்களை தலைசிறந்த மாணவர்களாக உருவாக்கிட இயலும்.
- தமிழ் மொழியின் சரியான ஒலிப்பு முறை, உச்சரிப்புத் திறனை வளர்க்க முடியும்.
- பேச்சுத் திறனை வளர்க்கும் நூல்களைக் கற்க வழி வகுக்க இயலும்.
- சமுதாயத்தோடு திறம்பட பேசும் ஆற்றலை உருவாக்கி நன்முறையில் பேசுந் தன்மையினை உருவாக்கிட இயலும்.

ATMJS62 - மொழிப்பயன்பாடு:

- மொழியின் பயன்பாடுகளையும், விளம்பர உத்திகளையும் அறிந்து அதன் மூலம் வானொலி, தொலைக்காட்சியில் பணியாற்றும் வாய்ப்பினை அமைத்துத் தருகிறது.
- கடிதங்கள் எழுதும் அமைப்புமுறை பற்றி அறியலாம்.
- பத்திரிக்கைத் துறையில் பல்வேறு பிரிவுகளைப் பற்றி தெரிந்து அறிவை மேம்படுத்த இயலும்.
- தனித்திறமைகளை வெளிக்கொணர்ந்து தொலைக்காட்சி நிகழ்ச்சிகளில் பங்கு பெற முடியும்.

ATMJS63 - திரைப்படக் கலையும் விமர்சனமும்:

- பல்வேறு காலகட்டங்களில் வாழ்ந்த இயக்குனர்கள் இயக்கிய திரைப்படங்கள் குறித்து அறியலாம்.
- திரைப்படங்களால் சமுதாயத்தில் ஏற்பட்ட வாழ்க்கை மாற்றங்கள், சமுதாயப்புரட்சி பற்றியும் அறிந்து கொள்ள முடியும்.
- திரைப்படங்கள் மக்களிடையே எவ்வித நன்மை, தீமைகளைப் பயக்கிறது என மதிப்பீடு செய்ய இயலும்.

ATMJT62 - தமிழகக் கோயில் கலைகள்:

தமிழகத்தில் கோயில் தோன்றிய விதத்தினையும் கோயில் கட்டிடங்களைப் பற்றியும் தமிழகக் கோயிற்கலை கூறுகிறது. இதனைக் கற்பதால் மாணவர்கள் கோயில்கள் தோன்றிய வரலாறு, அதன் தொன்மை, அதன் கட்டிடக்கலை ஆகியவற்றின் சிறப்பை அறிந்து கொள்கின்றனர்.

ATMJT63 - இதழியல்:

- ஊடகங்களைப் பற்றிய தெளிவினைப் பெறுதல்.
- பணிசார் கல்வித்திறன் அடைதல்.
- பல்துறைக் கல்வியும் பெறுதல்.

III B.Com. (CA) & III B.A. (Economics) - Odd Semester

ATMJN51 - NME - தமிழ் இலக்கிய வரலாறு:

- பழம் தமிழ் இலக்கண இலக்கியங்களின் சிறப்புகளையும் தமிழ்மொழியின் சிறப்பு தமிழ்நாட்டு மக்களின் சிறப்பு, நீதி நூல்களின் அறக்கருத்துக்களை காப்பிய இலக்கிய வழி அறம் பொருள் இன்பம் உண்மை பொருளையும் பக்தி சிறப்பையும் பல்வேறு சமய சமயங்கள் ஆற்றிய தமிழ்த் தொண்டு அறிதல்
- பன்னிரு திருமுறைகள் நாலாயிரத் திவ்ய பிரபந்தம் போன்றவை மூலம் சைவ வைணவர்களின் தமிழ்த் தொண்டு அறிதல்.

III B.Com. (CA) & III B.A. (Economics) - Even Semester

ATMJN61 - NME - தமிழ் இலக்கிய வரலாறு:

- 96 வகை சிற்றிலக்கியங்கள் வழியாகத் தமிழ் இலக்கியத்தின் சொல்லணி ,பொருள் அணி, யாப்பு வடிவங்கள்பலவற்றை அறிந்து படைப்பாற்றலை வளர்த்தல்.
- தமிழ் மொழியில் ஐந்திலக்கணம், பாட்டியல் நூல்கள், நிகண்டுகள் கற்று மொழிப்புலமை அடைதல்.
- இயல் இசை நாடகம் முத்தமிழ் புலமை தெரிதல் சைவம் வைணவம் சமணம் பௌத்தம் இஸ்லாமியம் கிறிஸ்தவம் போன்ற சமயங்களில் தமிழ் தொண்டு அறிதல்.
- மறுமலர்ச்சி இலக்கியங்கள் வழி கதை கவிதை புதினம் போன்றவற்றில் உலக ஒற்றுமை கண்டு இதன்வழி தமிழ் மொழியை வளர்க்கும் பண்பை கற்றுக்கொள்ளுதல்.

COURSE OUTCOME- Department of English (unaided)

I BA ENGLISH- I SEMESTER

1) Part II English- Communicative English Paper I (UCELE11)

On the completion of the course, the students will be able to

- enrich their vocabulary
- hone their communicative skills
- acquire listening, speaking, reading and writing skills
- improve their English fluency

2) Prose (AENJC11)

On the completion of the course, the students will be able to

- appreciate the style of various prose writers
- understand different forms of prose writings
- enjoy the expression in English language
- grab the ideas of great writers

3) Short Stories (AENJC12)

On the completion of the course, the students will be able to

- read and enjoy the short stories
- appreciate the themes in the short stories
- comprehend the narrative technique
- come to know various vocabularies

4) Literary Forms (AENJA11)

On the completion of the course, the students will be able to

- know the various genres of literature and their characteristics
- appreciate the aesthetics of each literary form
- analyse the use of various literary devices
- understand the techniques employed by various writers

5) Professional English (UPCLP11)

On the completion of the course, the students will be able to

- comprehend the basics of English language
- understand the nuances of English language
- speak and write without any errors
- get through competitive examinations

6) Value Education (UVEJV11)

On the completion of the course, the students will be able to

- know the most important values
- apply the virtues in their practical life
- become good citizens
- differentiate virtue and vice

I BA ENGLISH – II SEMESTER

1) Part II English - Communicative English Paper II (UCELE21)

On completion of the course, the students will be able to

- speak and write choosing from a wider range of vocabulary
- interact confidently in situations like debates and group discussions and seminars.
- expose the different genres to acquire knowledge and apply that in the creative writing.
- improve their analytical skills and help them to evaluate the different types of works.

2) Poetry 1 (AENJC21)

On completion of the course, the students will be able to

- understand and appreciate poetry as a literary art form.
- identify a variety of forms and genres of poetry.
- broaden their vocabulary and develop the skill of appreciating the language and its connotations and denotations.
- recognize the rhythms, metrics and other musical aspects of poetry.
- unleash their creativity.
- analyse poetic devices.

3) Fiction (AENJC22)

On completion of the course, the students will be able to

- acquire a broad perspective of the novel as a literary genre and the relevant historical, geographical, and cultural identical backgrounds.
- analyse various types of novels with reference to thematics and other approaches.
- appreciate the working of various literary devices like irony in fiction.

4) The Social History of England (AENJA21)

On completion of the course, the students will be able to

- relate the socio-historical background to literature
- correlate social history and the history of genres.
- understand social changes that occurred over the centuries.
- know the impacts of social history of England.

5) Professional English – II (UPCLP21)

On completion of the course, the students will be able to

- understand the concepts of basic grammar.
- do exercises in grammar and apply them to write sentences on their own.
- apply the concepts of spoken English and be tested in Spoken English with an internal assessment.
- acquire the communication skills.
- enrich their vocabulary.

6) Environmental Science (UESJD21)

On completion of the course, the students will be able to

- understand the concepts and methods from ecological and physical sciences and their application in environmental problem solving.
- learn the transnational character of environmental problems.
- Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.

- Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
- get a general insight in the dimensions of disasters caused by nature as well as the disasters and environmental hazards induced by human developmental activities.
- become aware of the fundamentals of disaster assessment and environmental impact assessment.

II BA – I Semester

English for Communication & Pleasure – III UTMJE31

On completion of the course, the students will be able to

- learn English as second language
- understand the various genres of English language
- increase their language skills

Poetry- II - AENJC31

On completion of the course, the students will be able to

- consume the taste of the poetry
- understand the poetry own
- appreciate the poetry in various angles

Advanced English Grammar and Usage - AENJA31

On completion of the course, the students will be able to

- learn Grammar as a course
- speak without mistakes
- frame the error free sentences

History of English Literature – AENJT31

On completion of the course, the students will be able to

- understand the various ages of literature
- explore origin and the growth of literature
- get clear idea in the area of English literature from Chaucer

Word Power – AENJS31

On completion of the course, the students will be able to

- know the functions of word
- understand the proper usage of words
- consume vocabularies from English

Creative Writing – AENJS32

On completion of the course, the students will be able to

- write on their own
- acquire the tools of good writing
- develop their creative writing skills

II BA ENGLISH- IV SEMESTER

1) Part II English- Communicative English Paper I (UENJE41)

On the completion of the course, the students will be able to

- empower themselves for competitive examinations

- develop their literary sensibility
- enhance their competence in English through grammar and usage

2) Indian Writing in English (AENJC41)

On the completion of the course, the students will be able to

- understand how imperial English evince many changes among the Indian writer
- identify the literary engagements of the prominent Indian poets
- understand the cultural diversity of India as found in the play
- identify the Indianness in the prescribed pieces

3) Twentieth Century Literature (AENJC42)

On the completion of the course, the students will be able to

- comprehend the socio-political spirit of the modern era
- understand the changing literary scenario and the introduction of various 'isms'
- read and appreciate the new type of novel
- enjoy the newness in language

4) Phonetics and Spoken English (AENJA41)

On the completion of the course, the students will be able to

- explain how English speech sounds are articulated and used to create meaning
- specify phonemic transcription
- apply their knowledge of English phonetics and phonology to improve their own pronunciation

5) The History of English Literature -II (AENJT41)

On the completion of the course, the students will be able to

- delineate major writers and their works in chronological order
- analyse how the religious, social and political history of England influences the English writers from 19th-21st centuries
- classify all major literary genres
- compare English literature of one period with that of another

6) Presentation Skills (AENJS41)

On the completion of the course, the students will be able to

- deal with nerves and think more positively about public speaking
- consider ways of grabbing the listener's attention, holding their interest and concluding strongly
- use body language and tone of voice to enhance their presentation
- use slides and visual aids effectively

7) Job Seeking Skills (AENJS42)

On the completion of the course, the students will be able to

- develop and revise appropriate job search plans and materials
- prepare for execute effective informational and job interviews
- identify career opportunities and target specific jobs that match current skills and career goals
- identify strategies to manage their public information

III BA ENGLISH – V SEMESTER

1) DRAMA- II (AENJC51)

On the completion of the course, the students will be able to

- analyze plays for their structure and meaning using correct terminology.
- know the dramatic trends in plays by the most important playwright from differing time periods.

- grab the ideas of great writers.
- gain knowledge about the culture of different countries.

2) THE AMERICAN LITERATURE (AENJC52)

On the completion of the course, the students will be able to

- understand the changing faces of texts with developments in culture.
- critically analyze American literary texts in the light of several movements in Literature.
- understand the progression of ideas across genres and times and get a clear idea of the literary space of America.
- gain an insight into the themes in the writings of American writers.

3) NEW LITERATURES IN ENGLISH (AENJC53)

On the completion of the course, the students will be able to

- illustrate various countries and its literatures.
- Compare and contrast various literature in English.
- examine the variations of life styles of colonized countries.
- explain the nuances of the multiculturalism of various countries.
- make a comparative study of the understanding of new literature to the experience of learning British literature.

4) WOMEN'S WRITING IN ENGLISH (AENJC54)

On the completion of the course, the students will be able to

- identify the different issues related to women in general.
- analyze the various roles of women and the challenges faced by them in the society.
- demonstrate knowledge of the history of women's studies as an academic discipline.
- understand the works of the major women writers in English.

5) JOURNALISM AND MASS COMMUNICATION (AENJC55)

On the completion of the course, the students will be able to

- students would be able to relate to the emerging trends in the field of Journalism.
- understand the latest trends in Journalism and mass communication.
- students would be able to analyze the various aspects of Journalism with objectivity.
- identify the fundamentals of journalism.

LITERARY CRITICISM-I (AENJT51)

On the completion of the course, the students will be able to

- understand the critical traditions of English literature.
- trace the development of criticism through the ages.
- recognize the value of multiple perspective and develop competence in giving and receiving constructive criticism.
- understand the beginnings of literary criticism.

INTRODUCTION TO INFORMATION TECHNOLOGY (SNTJN51)

On the completion of the course, the students will be able to

- aware of various fundamentals of computer system like computer Hardware, software, memory and networking.

III BA English –VI Semester

1) Shakespeare (AENEC61)

On the completion of the course, the students will be able to

- familiarise themselves with the social milieu through Shakespeare theatre and plays which established new trends in Elizabethan Drama.
- acquire knowledge of the dramatic skills exemplified in the plays.
- identify and appreciate the humour in comedies.
- learn the different dramatic techniques employed by Shakespeare.
- combine the theatrical conventions of Shakespeare with their own ideas to convert into stage plays.

2) English Language Teaching (AENEC62)

On the completion of the course, the students will be able to

- define the aims and principles of teaching English as a Second Language.
- explain the various approaches and theories of teaching language.
- analyse and develop the basic skills in English.
- appraise the assorted talents in teaching.
- discuss the key concepts related to language and apply them to their area of interest.

3) Translation Theory and Practice (AENEC63)

On the completion of the course, the students will be able to

- understand the evolution of the translation studies as an academic discipline.
- recognize major milestones in the history of translation.
- translate different types of text in both source and target language.

4) Introduction to Literary Theories (AENEC64)

On the completion of the course, the students will be able to

- get knowledge about literary theory.
- understand the different aspects of literary theories.
- learn the major concepts of various literary theorists

5) English for Employment (AENEC65)

On the completion of the course, the students will be able to

- classify the various components of English grammar.
- distinguish the phrases in sentences.
- improve the vocabulary usage and enrichment.
- appraise the hardships in framing sentences.
- construct the style of effective writing.
- acquire knowledge about the employability skills.

6) Literary Criticism-II (AENET61)

On the completion of the course, the students will be able to

- understand the origin and development of Literary Criticism.
- show an understanding of the critical observations made by important critics.
- compare and contrast different critical approaches to find the relevance of a text to the society.
- evaluate the modern literary trends and techniques employed in literary works.

7) Internet and its Applications (SNTJN61)

On the completion of the course, the students will be able to

- aware of basic concepts in internet and its application areas like World Wide Web, URL, Web Browser and ip address.

I MA ENGLISH- I SEMESTER

1) Chaucer to Marvell (TENJC11)

On the completion of the course, the students will be able to

- familiarize themselves with the 14th Century Social Life.
- get knowledge of the aftermath of the Renaissance ethos.
- understand the techniques employed by the dramatists and Metaphysical poets during the period from Chaucer to Marvell

2) Shakespeare (TENJC12)

On the completion of the course, the students will be able to

- understand the themes of the plays of Shakespeare
- enjoy and appreciate the language of Shakespeare
- learn the uniqueness and universal appeal of the plays of Shakespeare
- identify and appreciate the dramatic techniques of the plays of Shakespeare

3) American Literature (TENJC13)

On the completion of the course, the students will be able to

- understand and appreciate the representative American poets
- comprehend the socio- political and cultural issues depicted in American fiction
- appreciate the evolving techniques and trends in theatre
- appreciate the unique features of American Literature and its significance

4) Introduction to Comparative Literature (TENJC14)

On the completion of the course, the students will be able to

- study the literature from different cultures, nations and genres
- explore relationship between literature and other forms of cultural expression
- understand that literature can be compared with Literature across countries with other arts
- analyse authors and works on comparative lines in treatment of theme and structure

5) English for Career Communication Level-I (TENJC15)

On the completion of the course, the students will be able to

- acquire reading and writing skills
- understand different parts of speech
- enrich their vocabulary
- get ready for placement

6) Practical English Grammar (TENJT11)

On the completion of the course, the students will be able to

- construct grammatically correct sentences
- understand the nuances of English language
- speak and write without grammatical errors
- comprehend the basics of English grammar

I MA English – II Semester

1) The Augustan Age – TENJC21

On the completion of the course, the students will be able to

- know the socio-economic developments in the society.
- understand the trends and movements of the period.
- identify and analyze the language and literature of the Augustan age.
- comprehend the principles of liberty and imagination and advocated by the Augustan movements.

2) The Romantic Age – TENJC22

On the completion of the course, the students will be able to

- understand the social and cultural background of the Romantic age.
- analyze and appreciate the thematic and stylish features of Romantic literature.
- understand the aims and ideals of Romantic literature and appreciate its variety.
- perceive the idea that romanticism is a revolt against the restricted ideals of classicism.

3) The Victorian Age – TENJC23

On the completion of the course, the students will be able to

- understand the analytical and critical attitudes of the Victorian writers.
- comprehend the spirit of inquiry and skepticism of the Victorian age.
- learn the development of literary criticism in the Victorian age.
- know the socio-economic developments in the Victorian society.

4) Canadian Literature – TENJC24

On the completion of the course, the students will be able to

- gain knowledge about the cultures of different countries.
- become familiar with the major representative writers of Canadian Literature.
- enjoy and appreciate the richness and variety in literatures of different countries.
- get an insight into the various aspects of Canadian literature.

5) Indian Diasporic Fiction – TENJT21

On the completion of the course, the students will be able to

- know the characteristics features of the diasporic writings.
- analyze literature and fiction using appropriate theoretical, historical, and cultural apparatus.
- know various cultures and construction of gender, nation and race throughout the history.
- identify and distinguish the various forms of literature.

6) English for Career Communication – Level II – TENJS21

On the completion of the course, the students will be able to

- heighten their awareness of correct usage of English grammar in writing and speaking.
- improve their speaking ability in English both in terms of fluency and comprehensibility.
- develop abilities as a critical thinker, readers, and writers.
- get through competitive examinations.

II MA – III Semester

Indian Writing in English – TENJC31

On the completion of the course, the students will be able to

- understand the origin and the growth of Indian writing in English.
- appreciate the works of Indian writers and their works.
- know different kinds of reading and their purpose .

Study of English & English Language Teaching - TENJC32

On the completion of the course, the students will be able to

- understand the rules of English phonetics
- master the way of using and pronouncing the words
- explore the role of English language in competitive world

Twentieth century Literature- TENJC33

On the completion of the course, the students will be able to

- learn the specific era of literature
- differentiate the Twentieth century Literature from other Periods of Literature
- appreciate the Twentieth Century poems and its language.

Literary Criticism – TENJC34

On the completion of the course, the students will be able to

- learn the literary critical works in English Literature
- appreciate the literary text with the help of critical works
- understand the various literary criticisms in detail

English for Success – TENJT32

On the completion of the course, the students will be able to

- understand the usage of modern English grammar
- aware of the do's and don'ts in the usage of English language
- enrich their vocabularies and its proper usage

II MA English – IV Semester

1) New Literatures In English (TENJC41)

On the completion of the course, the students will be able to

- get the information on Colonialism and Post Colonialism
- gain knowledge about the cultures of different countries.
- identify the colonial and post colonial works
- know the effects of Colonialism in Literature

2) Translation Theory And Practice (TENJC42)

On the completion of the course, the students will be able to

- familiarise with the origin and development of translation theories.
- translate literary and non literary texts
- evaluate translation method by translating texts from English to Indian Languages and vice versa
- know about famous works in different languages.

3) Research Methodology (TENJC43)

On the completion of the course, the students will be able to

- gain knowledge about research style of writing.
- learn the format of research paper.
- know the importance of documentation
- perceive the techniques for project presentation.

4) Project (TENJC4R)

On the completion of the course, the students will be able to

- learn about research and it's types.
- choose their own areas for research.
- analyse their research topics
- be a good researcher.

5) Modern Fiction (TENJT42)

On the completion of the course, the students will be able to

- familiarise with the name of Modern Novelists
- know the techniques and attitude of Modern Novelists.
- grasp the salient features of novels.
- learn various critical works on Novels.

6) English For Effective Oral Communication (TENJC44)

On the completion of the course, the students will be able to

- gain reading and writing skills
- enrich their vocabulary and communication skills
- improve English Language skills
- speak flawless sentence in English

S.B.K. COLLEGE, ARUPPUKOTTAI
DEPARTMENT OF MATHEMATICS (CA)
B.SC MATHEMATICS WITH COMPUTER APPLICATION

PROGRAMME OUTCOME

- PO1:** Students will be able to communicate in written and oral forms in such a way so as to demonstrate their ability to present information clearly, logically and critically.
- PO2:** Realize ethical and moral values in personal and social life.
- PO3:** Understand the issues of environmental contexts and sustainable development.
- PO4:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technology.
- PO5:** Cultivate unparallel comprehension of fundamental concepts relevant to an individual and career advancement at the National and Global levels.

PROGRAMME SPECIFIC OUTCOME

- PSO1:** Understanding of Mathematical concepts help students to analyse and solve problems which is useful in clearing competitive exams and cultivate the practice of constructing proofs using basic axioms which helps in research and advance programme.
- PSO2:** Identifying the applications of Mathematics in other disciplines and society to solve real life programme. Logical thinking and reasoning enhances the capability of solving complex problems to meet the opportunities of career development and higher studies.
- PSO3:** Provide programme in Mathematics that enable students to define Mathematical concepts, calculate quantities, estimate solutions, solve problems, represent Mathematical information, interpret data and communicate Mathematical thoughts.
- PSO4:** The ability to understand, analyse and develop computer programs in the areas related to Mathematics, Algorithm, System software, Web design and Networking for efficient designs of Computer-based programs.
- PSO5:** Explore technical knowledge in diverse areas of Mathematics and Computer Applications and experience on environment conducive in cultivating skills for successful career, Entrepreneurship.

Subject Name: Calculus

Year: I

Subject Code: SMCJC11

Semester: I

COURSE OUTCOME

CO1: To study functions in detail which is a fundamental structure in all sciences, and to be able to check continuity of a function.

CO2: To learn basic properties of real numbers and its subsets which is backbone of Real Analysis

CO3: To apply notion of derivative in mean value theorem and also in higher order derivatives which arise in all applied sciences

Subject Name: Theory of equations & Trigonometry

Year: I

Subject Code: SMCJC12

Semester: I

COURSE OUTCOME

CO1: To solve cubic and biquadratic equations.

CO2: To find the logarithm of complex numbers.

Subject Name: Fundamental of Computer

Year: I

Subject Code: SMCJA11

Semester: I

COURSE OUTCOME

CO1: To study the types of computers & its features, the types of Programming languages and memory.

CO2: To use the secondary storage devices, Input/output devices.

CO3: To know operating systems and the system of working windows.

Subject Name: Discrete Mathematics

Year: I

Subject Code: SCAJA11

Semester: I

COURSE OUTCOME

CO1: Ability to apply logic to solve problems.

CO2: Able to formulate the problems and solve recurrence relations

CO3: Able to model and the real world problems using graphs and trees.

Subject Name: Differential Equation

Year: I

Subject Code: SMCJC21

Semester: II

COURSE OUTCOME

CO1: To solve linear equations with variable coefficients

CO2: To study partial differential equations

CO3: Applications of Differential equations in real life

Subject Name: Analytical Geometry of 3D and Vector Calculus

Year: I

Subject Code: SMCJC21

Semester: II

COURSE OUTCOME

CO1: To study 3-dimensional Structures

CO2: To study vector differentiation and vector integration

Subject Name: Database Management System

Year: I

Subject Code: SMCJA21

Semester: II

COURSE OUTCOME

CO1: Acquire the knowledge of handling large volume of data

CO2: Develop skills to deal with real life database implementation.

CO3: Response off faster queries.

Subject Name: Lap-DMS Practical

Year: I

Subject Code: SMCJA2P

Semester: II

COURSE OUTCOME

CO1: Create and manage SQL Commands.

CO2: Study the commands for joins (cross join, inner join, outer join) and the various set operations.

CO7: Analyze the various scalar functions & string functions.

Subject Name: Mechanics

Year: II

Subject Code: SMCJC31

Semester: III

COURSE OUTCOME

CO1: To study the equilibrium of a particle.

CO2: To study moving velocity of a particle.

Subject Name: Visual Programming

Year: II

Subject Code: SMCJA31

Semester: III

COURSE OUTCOME

CO1: Demonstrate fundamental skills in utilizing the tools of a visual environment such as command, menus and toolbars.

CO2 Implement SDI and MDI applications using forms, dialogs, and other types of GUI components.

Subject Name: Programming in C

Year: II

Subject Code: SMCJA32

Semester: III

COURSE OUTCOME

CO1: Recollect various programming constructs and to develop C programs.

Co2: Understand the fundamentals of C programming.

CO3 Choose the right data representation formats based on the requirements of the problem.

CO4 Implement different Operations on arrays, functions, pointers, structures, unions and files.

Subject Name: Basic of Analysis

Year: II

Subject Code: SMCJC41

Semester: IV

COURSE OUTCOME

CO1: To understand the countable concepts of real number system.

CO2: To study the behavior of sequences and series

CO3: To provide a rich foundation for studying real analysis

Subject Name: Programming in JAVA

Year: II

Subject Code: SMCJA41

Semester: IV

COURSE OUTCOME

CO1: Understand the fundamentals of objects oriented programming.

CO2: Achieve knowledge of multi-threading and to comprehend the event-handling techniques.

CO5: Develop software in the JAVA programming language.

CO6: Develop interactive programs using applets and swings.

Subject Name: Programming in C++

Year: II

Subject Code: SMCJA42

Semester: IV

COURSE OUTCOME

CO1: Study the characteristics of Procedure and Object Oriented Programming Languages.

CO2 Understand the fundamentals of C++ programming structure, function overloading and constructors.

CO3 To be able to program using C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.

CO4 Apply the concepts in object oriented programming in terms of software reuse and managing complexity to solve real-world problems.

Subject Name: Programming in JAVA Lab

Year: II

Subject Code: SMCJA4P

Semester: IV

COURSE OUTCOME

CO1: Determine the simple program using control statements and Recursive Functions.

CO2: Perform the string operations using string handling functions.

CO3: Implement the classes and objects.

CO4: Develop JAVA application programs using inheritance, interfaces and Packages.

CO5: Create multithreaded programs.

CO6: Write JAVA programs to implement error handling techniques using exception handling and develop programs using class.

CO7: Create streams and applet.

Subject Name: C and C++ Programming Lab

Year: II

Subject Code: SMCJA4Q

Semester: IV

COURSE OUTCOME

CO1: Implement the concepts of object oriented programming.

CO2: Apply string functions to perform operator overloading,

CO3: Demonstrate virtual functions and inheritance.

CO4: Implement files and command line argument

Subject Name: Modern Algebra

Year: III

Subject Code: SMCJC51

Semester: V

COURSE OUTCOME

CO1: Learning to count the elements of a finite group.

CO2: Constructing quotient groups using integral domain

Subject Name: Real Analysis

Year: III

Subject Code: SMCJC52

Semester: V

COURSE OUTCOME

CO1: To analyze the real line structure

CO2: To study properties of Riemann integral

Subject Name: Fundamentals of statistics

Year: III

Subject Code: SMCJC53

Semester: V

COURSE OUTCOME

CO1: To analyze the data

CO2: To study the qualitative characteristics - Attributes

Subject Name: Operation research

Year: III

Subject Code: SMCJC54

Semester: V

COURSE OUTCOME

CO1: To study linear programming problem and methods of solving it

CO2: To study transportation and assignment problems

CO3: To study the inventory – replacement policies and game theory

Subject Name: Graph theory

Year: III

Subject Code: SMCJA51

Semester: V

COURSE OUTCOME

CO1: Describe the origin of Graph Theory

CO2: Explain independent sets and covering sets and some basic theorems.

CO3: Define Bipartite Graph and Prove theorem.

CO4: Characterize tree.

CO5: Derive some properties of planarity and Euler's formula.

CO6: Find vertex chromatic number and edge chromatic number and some theorems.

CO7: Prove five color theorem and Explain basic definition of directed graph.

Subject Name: Fourier series and Laplace Transform

Year: III

Subject Code: SMCJS51

Semester: V

COURSE OUTCOME

CO1: Find Fourier series expansion for given function.

CO2: Find cosine and sine series expansion for given function.

CO3: Expand odd or even functions periodically.

CO4: Define Laplace Transform and solve some problems.

CO5: Define Inverse Laplace Transform and solve some problem.

CO6: Solve ordinary differential equations using Laplace Transform.

Subject Name: Fundamental mathematics

Year: III

Subject Code: SMTJN51

Semester: V

COURSE OUTCOME

CO1: Understand the basic operations on Numbers.

CO2: Develop mathematical skill.

CO3: Analyze simplifications method like BODMAS rules, Vinculum.

CO4: Understand the problems on numbers and problems on ages.

CO5: Explain the concept of percentage.

CO6: Find profit and loss for given data.

Subject Name: Linear Algebra

Year: III

Subject Code: SMCJC61

Semester: V

COURSE OUTCOME

CO1: To study about the algebraic system – vector space

CO2: To know about Eigen values and Eigen vectors

Subject Name: Complex analysis

Year: III

Subject Code: SMCJC62

Semester: VI

COURSE OUTCOME

CO1: To study the differentiation of complex valued function

CO2: To study the integration of complex valued function

Subject Name: Statistics

Year: III

Subject Code: SMCJC62

Semester: VI

COURSE OUTCOME

CO1: To study probability and distributive functions

CO2: To study the tests of significance

Subject Name: Fuzzy set and Fuzzy logic

Year: III

Subject Code: SMCJC64

Semester: VI

COURSE OUTCOME

CO1: Define concept of fuzzy sets and operations of fuzzy set.

CO2: Distinguish between crisp set and fuzzy set concepts.

CO3: Study fuzzy arithmetic concepts.

Subject Name: Numerical Analysis

Year: III

Subject Code: SMCJC65

Semester: VI

COURSE OUTCOME

CO1: Analyze Algebraic and Transcendental equations.

CO2: Understand different methods of solving these equations

CO7: Study maxima-minima of the interpolating polynomial.

Subject Name: Logic and Boolean algebra

Year: III

Subject Code: SMCJC66

Semester: VI

COURSE OUTCOME

CO1: Understand Bicondition arguments, Implication and Quantifiers.

CO5: Study Boolean algebra and logic gates and proved some related theorems.

CO6: Analyze Logic circuits, Minimal Boolean expressions, Farnaugh maps and Minimal AND –OR circuits.

Subject Name: Quantitative Aptitude

Year: III

Subject Code: SMTJN52

Semester: VI

COURSE OUTCOME

CO1: Understand the basic concept of quantitative ability.

CO2: Solve the campus placements aptitude papers covering Quantitative ability.

CO3: Compete in various competitive exam like CAT, CMAT, GATE, GRE, UPSC, GPSC etc.,

S.B.K COLLEGE, DEPARTMENT OF PHYSICS (UNAIDED)

B.Sc PHYSICS PROGRAMME OUTCOMES

On successful completion of the **B.Sc. Physics programme**, the students will be able to

PSO1	understand the basics to modern Physics concept through some physical and mathematical principles
PSO2	Explore the foundation for higher learning and Be initiated into the fundamentals of research
PSO3	Apply and verify theoretical concepts through physics laboratory experiments
PSO4	Absorb the proper ethical values and become conscious of environmental and societal responsibilities
PSO5	Attain good communication skills and in order to get the high level career opportunity

I B.Sc PHYSICS

SUBJECT NAME: MECHANICS AND PROPERTIES OF MATTER

SUBJECT CODE: SPHJC11

CO1	Understand the concept of force, friction and energy.
CO2	Get the knowledge about the angular momentum, torque and moment of inertia.
CO3	Understand principle of gravity.
CO4	Learn about the principles of Elasticity and bending of beams.

SUBJECT NAME: PROGRAMMING IN C

SUBJECT CODE: SPHJS11

CO1	Get basic knowledge about C language.
CO2	Learn about constants, variables and keywords.
CO3	Understand various operators and statements.
CO4	Utilize programming language to solve mathematical problems.

SUBJECT NAME: SOLAR ENERGY

SUBJECT CODE: SPHJC12

CO1	Get basic knowledge about various forms of energy.
CO2	Understand the concept of the nature of solar radiation.
CO3	Utilize the application area of solar energy like crop dryers, space cooling, solar cooker and water desalination.
CO4	Learn about wind energy, biomass energy, and geothermal energy.

SUBJECT NAME: THERMAL PHYSICS AND ACOUSTICS

SUBJECT CODE: SPHJC21

CO1	Acquire the knowledge of the fundamentals of thermodynamics.
CO2	Understand the concept of conduction, convection and radiation.
CO3	Understand reversible and irreversible process, entropy.
CO4	Understand the vibration of sound waves in strings air columns.

SUBJECT NAME : MEDICAL PHYSICS

SUBJECT CODE : SPHJS22

CO1	Understand the basics about the Anatomical Terminology , physics of skeleton and its applications of medicine
CO2	Learn the physics of cardiovascular system and electricity within the body
CO3	Be familiar with the sound and light in medicine, physics of ear and hearing
CO4	Understand the basic operation of X rays and Electro Cardio Graph (ECG) setup
CO5	Acquire knowledge about the working of the bio medical instrumentation (EEG,EMG and CT scanner)

SUBJECT NAME: ASTRO PHYSICS

SUBJECT CODE: SPHJS21

CO1	Understand the basics about the Kepler's theory.
CO2	Learn the concept of black holes.
CO3	Understand the basic about stars and galaxy.
CO4	Knows about the sunspot spectrum.

II B.Sc PHYSICS

SUBJECT NAME: ELECTRICITY AND ELECTROMAGNETISM

SUBJECT CODE: SPHJC31

CO1	Learned to test electrical conductivity on various materials, and identify each material as a conductor or insulator.
CO2	Understand the principles and laws of electromagnetic induction.
CO3	Understand the uses of electrical devices such as ammeters, voltmeters and multimeters in sample circuits.
CO4	Understand the need of bridge circuits in AC circuits.

SUBJECT NAME : PHYSICS OF ELECTRONIC DEVICES

SUBJECT CODE : SELJA31

CO1	Acquire knowledge about the basic principles of energy band in solids and charge carrier in semiconductors
CO2	Understand the principles of excess carrier in semiconductors
CO3	Learn the working and designing of p-n junction diodes
CO4	Describe the basic operation of optoelectronics and its applications
CO5	Understand the principles of transistors, semiconductor controlled rectifier and its applications

SUBJECT NAME: OPTICS AND SPECTROSCOPY

SUBJECT CODE: SPHJC41

CO1	Understand nature of light.
CO2	Get knowledge about the phenomena like, interference, diffraction and polarization.
CO3	Learn about basic concept of electromagnetic spectrum.
CO4	Understand the different kinds of spectroscopy corresponding to the different molecules.

SUBJECT NAME : APPLICATION OF ELECTRONIC

DEVICES AND INSTRUMENTATION

SUBJECT CODE : SELJA41

CO1	Acquire the knowledge of the mechanism of DC indicating instruments
CO2	Learn the basic operation of oscilloscope
CO3	Understand the types of transducers and basic operation of sensors
CO4	Knows about the principles and mechanism of bio-potential recorder
CO5	Understand the working of home electrical appliances

III B.Sc PHYSICS

SUBJECT NAME: MODERN PHYSICS

SUBJECT CODE: SPHJC51

CO1	Understand the basics of concept of atom models.
CO2	Get basic knowledge about quantum physics.
CO3	Understand the concept of relativity.

SUBJECT NAME: NUCLEAR PHYSICS

SUBJECT CODE: SPHJC52

CO1	Understand the theories behind Nuclear forces.
CO2	Learn the different types of Nuclear models.
CO3	Learn the process of Nuclear Reactions
CO4	Be imparted the knowledge of Nuclear fission and fusion.

SUBJECT NAME: ANALOG ELECTRONICS**SUBJECT CODE: SPHJC53**

CO1	Learn About the working and characteristics of diode and rectifier behaviour
CO2	Understanding the transistor working and related characteristics
CO3	Become a knowledge about the small signal amplifier (two port network parameters), Power amplifier and operational –amplifier
CO4	Understanding the feedback, operation of oscillators and Its types

SUBJECT NAME: LINEAR INTEGRATED CIRCUITS**SUBJECT CODE: SELJA51**

CO1	Identify and utilize fundamentals of operational amplifier circuits to amplify the signals.
CO2	To learn the features and advantages of Integrated circuits.
CO3	Design electronic circuits using Op-Amp for various mathematical operations.
CO4	Understand the uses of multivibrators in various electronic devices.

SUBJECT NAME: NANO PHYSICS**SUBJECT CODE: SPHJS51**

CO1	Craft the elementary concepts of nanophysics
CO2	Understand the scientific perspective of nanomaterials
CO3	Understand the application of quantum mechanics in nanophysics
CO4	Get Knowledge about the fabrication techniques of nanomaterials
CO5	Enumerate the different applications of nanotechnology (Energy, Medicine, Chemistry)

SUBJECT NAME: CLASSICAL AND STATISTICAL MECHANICS

SUBJECT CODE: SPHJC61

CO1	Understand the classical concepts of the mechanics.
CO2	Get knowledge about Lagrangian, Hamiltonian Mechanics.
CO3	Understand the Fundamentals and distribution laws of statistical mechanics such as Maxwell Boltzmann, Fermi-Dirac and Bose Einstein distribution laws.
CO4	Understand the black body radiation and Fermi energy

SUBJECT NAME: SOLID STATE PHYSICS

SUBJECT CODE: SPHJC62

CO1	Knowing the detail theory of bonding in solid substances, concept of phonon and specific heat capacity of solids
CO2	Learn the electronic theory of metals and BCS theory
CO3	Acquire the basic knowledge about the types of magnetism and related mathematical derivations
CO4	Understand the performance of dielectric crystalline structures and its properties

SUBJECT NAME: DIGITAL ELECTRONICS

SUBJECT CODE: SPHJC63

CO1	Understand different number systems and Boolean algebra.
CO2	Get knowledge about different logic gates.
CO3	Learn about the different arithmetic circuits.
CO4	Understand the functioning of Clocks, timer Circuits and Registers.

SUBJECT NAME: ELECTRONIC COMMUNICATION

SUBJECT CODE: SELJA61

CO1	Obtain knowledge of operations and issues associated with digitization and information transmission: sampling, encoding, quantization, distortion, channel capacity and filtering.
CO2	Ability to analyze digital techniques and digital transmission media.
CO3	Ability to describe the reasoning behind design decisions.
CO4	To Understanding distinguishes between analog and digital communication with examples of communication system.

SUBJECT NAME: OPTOELECTRONICS

SUBJECT CODE: SPHJS61

CO1	Be familiar with the various methods of preparation of thin films.
CO2	Understand thin film characterization techniques.
CO3	Acquire knowledge about electrical and optical properties of thin films.
CO4	Have an in-depth knowledge about photoconductivity.

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI
DEPARTMENT OF COMPUTER SCIENCE
ODD SEMESTER

Course Outcome

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
1	Programming in C	SCSJC11	<ul style="list-style-type: none"> • The Course is designed to provide complete knowledge of c language • Students will be able to develop logics which help them to create programs ,Application in C • To learn the basic programming construct so that they can easily switch over to any other language in future
2	Programming in C Lab	SCSJC1P	<ul style="list-style-type: none"> • Understand the fundamentals of C programming • Utilize looping and decision making statements to solve the problem" • Understand in array, function pointers, structures and unions • Acquire knowledge to implement file operations in C programming
3	Value Education	UVEJV11	<ul style="list-style-type: none"> • Students understand the important of value based living • Students gain deeper understanding about the purpose of their life • To understand and start applying the essential steps to become a good leader • Students will become a value based professional
4	Office Automation lab	SCSJS1P	<ul style="list-style-type: none"> • Understand all the tools in Msword 2010 • Understand all the tools in Msexcel 2010 • Understand all the tools in Mspowerpoint 2010
5	Digital principles and computer organization	SCSJC32	<ul style="list-style-type: none"> • Understand the functions of basic electronic gates. • Obtain a basic knowledge of digital electronic circuits. • To Design sequential and combinational circuits such as flip-flop, half-adder ad full-adder etc. • Understand about Register, Addressing mode, Common bus system

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
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6	Multimedia lab	SCSJS3P	<ul style="list-style-type: none"> • Edit photo using photo editor tool • Create graphical designs • Apply various animation on images • Develop various effects on images using Flash
7	Data Structure and Computer Algorithms	SCSJC31	<ul style="list-style-type: none"> • Identify appropriate data structure as applied to specified problem definition • Acquire skill to Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures • Gain knowledge to describe and simulate various linear data structures like stacks, queues, linked lists using static and dynamic allocation and use them in solving problems • Acquire knowledge to simulate nonlinear data structures like binary search tree and use them in designing applications like sorting, expression trees etc
8	Data Structure Lab	SCSJC3P	<ul style="list-style-type: none"> • Understand recollect and Implement the algorithms concepts • Understand the ways to develop the practical skills in sorting concepts • It provides the student awareness about data Analysis
9	Relational Database Management System	SCSJC51	<ul style="list-style-type: none"> • Understand the database concepts • Gain adequate knowledge to design various database models, schemas and sql statements • Understand the insights of security and authorization • Improve database efficiency using normal form. • Qualify to write queries using algebraic and calculus notations • Access data from various databases.

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
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10	Operating System	SCSJC52	<ul style="list-style-type: none"> • Learn different types of operating systems along with concept of file systems and CPU scheduling algorithms used in operating system • Acquire knowledge in memory management and deadlock handling algorithms. • Understand the process and scheduling algorithms, Dekkers Algorithms and Bankers Algorithms.
11	Software Engineering	SCSJC53	<ul style="list-style-type: none"> • Learn different software development process models and software engineering principles and develop an ability to apply them to software design of real life problems • Understanding towards teamwork and quality management in software project management • Create a test plan for the software • Analyze and test a software system, when it is evolved to accommodate a set of change requirements such as adding new functionalities, bug fixing
12	Relational Database Management System Lab	SCSJC5P	<ul style="list-style-type: none"> • Create table with necessary fields. • Obtain knowledge to Capable to create data from multiple tables using DDL,DML,DCL,DCL Commands • Understand the usage of triggers,cursor,procedures are used • Qualify to through built-in function,Date and Time
13	Python Programming	SCSJS5P	<ul style="list-style-type: none"> • To acquire the knowledge about the Python language syntax including control statements, loops and functions to write programs for a wide variety problem in mathematics. • Examine the core data structures like lists, dictionaries, tuples and sets in Python to store, process and sort the data.

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
14	Client server computing	SCSJA51	<ul style="list-style-type: none"> • Impact and services available with client server technology and distributed computing. • Student will explore various type of client server implementation : SQL databases,transaction server,distributed objects,groupware,web Applications and web server
15	Professional English-I(Physical Science)	UPALP11	<ul style="list-style-type: none"> • Recognise their own ability to improve their own competence in using the language • Use language for speaking with confidence in an intelligible and acceptable manner • Understand the importance of reading for life • Read independently unfamiliar texts with comprehension • Understand the importance of writing in academic life • Write simple sentences without committing error of spelling or grammar
16	Introduction to computer and office Automation	SCSJN51	<ul style="list-style-type: none"> • to perform documentation · • to perform accounting operations · • to perform presentation skills

SAIVA BHANU KSHATRIYA COLLEGE, ARUPPUKOTTAI
DEPARTMENT OF COMPUTER SCIENCE
EVEN SEMESTER

Course Outcome

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
1	Object Oriented Programming in C++	SCSJC21	<ul style="list-style-type: none"> • Understand the difference between object oriented programming and procedural oriented languages and data types in C and C++ • Develop programmes using C and C++ features such as composition of objects, operator overloading, inheritance, polymorphism etc • Understand the concept of object-oriented language, and create a static object functions and a dynamic behavioural functions of the system. • Understand the approaches to class design and object design, and the techniques of translating design to implementation.
2	Object Oriented Programming in C++ Lab	SCSJC2P	<ul style="list-style-type: none"> • Exposed to create classes and Objects • Gain familiar its with use and Access of Constructor and Destructor • Acquire skills to implement the concepts of Function overloading & operator Overloading Understand the Concepts of Inheritance
3	Linux lab	SCSJS2P	<ul style="list-style-type: none"> • Understanding the basic set of commands and utilities in Linux systems. • develop software for Linux systems. • Understand the important Linux library function ,Linux shell programs and File Programs.
4	Environmental Studies	UESJD21	<ul style="list-style-type: none"> • Understand core concepts and methods from ecological and physical sciences and their application in environmental problem-solving. • Appreciate key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
5	System Software	SCSJC42	<ul style="list-style-type: none"> • Understand system Architecture such as SIC,SIC/XE,VAX,Pentium pro, ultra spark etc., • Understand system software's such as assembler, interpreter, linker, loader and compilers • Understanding towards design for Intermediate Code Generation in compiler.
6	Java Programming	SCSJC41	<ul style="list-style-type: none"> • Understand the difference between object oriented programming and procedural oriented languages • Understand the designing of complex classes: friend functions and static member functions, inline functions, constant functions • Understand the inheritance: single inheritance, multi-level inheritance, hierarchical inheritance, hybrid inheritance and multiple inheritance • Understand the file handling: Writing and reading data from the file, reading and writing the objects into the file • Ability to understand the Exception Handling: Catch, block, make user-defined exceptions. • Understand the concepts of Objects, Classes, Methods, Constructors and Destructors
7	Java Programming Lab	SCSJC4P	<ul style="list-style-type: none"> • Understanding the concepts of Operators • Gain skill to Implement the concepts of Method Overloading • Understanding in concepts of Various Inheritance • Implement the concepts of Interface • Implement the concepts of Multithreading • Work skilfully with Packages • Apply the concepts of String
8	PHP Lab	SCSJS4P	<ul style="list-style-type: none"> • Gain knowledge in Basic HTML Tags • Learn how to embed PHP coding with HTML Tags • Analyze the concepts of Cookies & Sessions and apply in Websites • Qualify to create Database in SQL and learn to insert, Update and Delete rows in SQL table from PHP

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
9	Data Communication computer networks	SCSJC61	<ul style="list-style-type: none"> • Learn the fundamentals of computer science. • Gain knowledge in the functionalities of each and every layer in network. • Ability to realize and compare different LAN topologies. • Implement and Compare the performance of Data Link Layer protocols. • Analyze the services and features of the various layers in the protocol stack. • Differentiate different routing algorithms and their usage.
10	Data mining	SCSJC62	<ul style="list-style-type: none"> • Understand warehouse architecture. • Gain knowledge on various data storage models. • Retrieve interesting patterns. • Acquire skills to plot data in multidimensional space. • Qualify to generate rule from data-set. • Gain Familiarity with classification algorithm.
11	Computer Graphics	SCSJA61	<ul style="list-style-type: none"> • Analyse the Basic output primitive, drawing algorithms along with 2D Transformation concepts • Learn the core concepts of CG □ Design algorithms for graphics applications • Gain knowledge of Windows Clipping & view object representation in relation to images displayed on screen • Create interactive graphics applications • Discern the rapid change of technology & methodology in multimedia environment
12	Quantitative Apptitude	SCSJS61	<ul style="list-style-type: none"> • Solve number problems, probability and profit and loss. • Develop reasoning ability. • Got introduction to the competitive exams. • Acquire knowledge to solve train and boat, work and age problem.

S.NO	SUBJECT	SUBJECT CODE	OUTCOME
13	Web Technology-Lab	SCSJC6P	<ul style="list-style-type: none"> Analyze a web page and identify its elements and attributes. . Create web pages using HTML and Cascading Style Sheets. . Build dynamic web pages using JavaScript (Client side programming). . Create a webpage design using ASP.Net and Connect the SQL database
14	Project-Lab	SCSJC6R	<ul style="list-style-type: none"> Gain knowledge in programming concepts and basics of software development life cycle model for the implementation of the project. Acquire Knowledge in different software development process models and develop their ability to apply them in software design of real life problems. Plan,analyze,design and implement a software project using programming languages like java,ASP,PHP,etc., Gain confidence at having conceptualized, designed and implemented a working major project with their team. Ability to work as a team and to focus on getting a working project done within a stipulated period of time. Ability to develop their own projects with their own ideas.
15	Introduction to Internet	SCSJN61	<ul style="list-style-type: none"> Enrich knowledge in origin and growth of internet. Gain knowledge to send mail and subscribe in news groups. Develop simple websites. Acquire knowledge to access internet connection.
16	Professional English-II(Physical Science)	UPALP21	<ul style="list-style-type: none"> Students will be enabled to understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, Writing, Listening, Thinking and Speaking Students will apply it at their work place for writing purposes such as Presentation/official drafting/administrative communication and use it for document/project/report/research paper writing. Students will be made to evaluate the correct & error-free writing by being well-versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses.

S.B.K.COLLEGE, ARUPPUKOTTAI
DEPARTMENT OF COMPUTER APPLICATION
BCA DEPARTMENT OUTCOME

Program outcome

At the end of the three year BCA programme the students will be able to:

To develop the students' caliber to cope up with the challenging expectations of Software Industry and prepare them to meet global competency.

Understand, analyze and develop computer programs in the areas related to algorithm, web

design and networking for efficient design of computer based system.

Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.

Apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success.

program Specific Outcome

- Understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics and networking for efficient design of computer based systems of varying complexity.
- Apply standard software practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.
- Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.
- Equip themselves to potentially rich & employable field of computer applications.
- Pursue higher studies in the area of Computer Science/Applications.
- Take up self-employment in Indian & global software market.

- Meet the requirements of the Industrial standards.

Course outcome

- The necessary technical, scientific as well as basic managerial and financial procedures to analyze and solve real world problems within their work domain
- Clarity on both conceptual and application oriented skills in computers, Accounting and IT Applications
- Awareness on ethics, values, sustainability and creativity aspects.
- The ability and the mindset to continuously update and innovate.

S.B.K COLLEGE, ARUPPUKOTTAI.

DEPARTMENT OF INFORMATION TECHNOLOGY.

COURSE OUTCOME

I-YEAR

I SEMESTER

SNTJC11	Introduction to Information Technology and Programming in C	Credit
		4

COURSE OUTCOME

- To gain the knowledge of types of computer and its usage
- To understand the working principles of secondary storage devices
- To understand the fundamentals of C programming.
- To choose the right data representation formats based on the requirements of the problem.
- To implement different Operations on arrays, functions, pointers, structures, unions and files.

I-YEAR

I-SEMESTER

SNTJC1P	LAB: Programming in C	Credit
		4

COURSE OUTCOME

- To develop programming skills using the fundamentals and basics of C Language.
- To develop programs using the basic elements like control statements, Arrays and Strings
- To enable effective usage of arrays, structures, functions and pointers.
- To implement files and command line arguments.

I-YEAR

I-SEMESTER

SNTJSIP	LAB: Linux Programming (Skill Based)	Credit
		2

COURSE OUTCOME

- To understand the basic commands of LINUX operating system
- To learn and write shell scripts for various operation
- To create file systems and directories and operate them

I-YEAR**I-SEMESTER**

UVEJV11	Value Education	Credit
		2

COURSE OUTCOME

- Students will understand the importance of value based living.
- Students will gain deeper understanding about the purpose of their life.
- Students will understand and start applying the essential steps to become good leaders.
- Students will emerge as responsible citizens with clear conviction to practice values and ethics in life.
- Students will become value based professionals.
- Students will contribute in building a healthy nation

I-YEAR**I-SEMESTER**

UPALA11	Professional English	Credit
		2

COURSE OUTCOME

- Students will be enabled to understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, Writing, Listening, Thinking and Speaking.
- Students would be able to create substantial base by the formation of strong professional vocabulary for its application at different platforms and through numerous modes as Comprehension, reading, writing and speaking etc.
- Students will be made to evaluate the correct & error-free writing by being well-versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses.

I-YEAR**II-SEMESTER**

SNTJC21	Object Oriented Programming with C++	Credit
		4

COURSE OUTCOME

- To understand the difference between object oriented programming and procedural oriented language and data types in C++.
- To understand the C++ features such as composition of objects, Operator overloading, inheritance, Polymorphism etc.
- To implement exception handling and templates.
- To develop applications using Console I/O and File I/O
- To understand dynamic memory allocation and pointers.

SNTJC2P	LAB: Object Oriented Programming Using C++	Credit
		4

COURSE OUTCOME

- To implement the concepts of object oriented programming.
- To apply string functions to perform operator overloading.
- To implement constructor, destructor overloading concepts.
- To demonstrate virtual functions and inheritance.
- To implement files and command line arguments.

SNTJS2P	LAB : Desktop Publishing (Skill Based)	Credit
		2

COURSE OUTCOME

- To understand the basic tools used in Photoshop
- To apply various effects on images like mirror effect, text and transforming tool and change the color of an image
- To apply various filtering effect like Blur effect, Lighting effect, etc.,
- Using CorelDraw creating a drawing, set rules, grid, guidelines and view documents.
- Using CorelDraw formatting text and paragraph and 3D special effects.

I-YEAR

II-SEMESTER

UESJD21	Environmental Studies	Credit
		2

COURSE OUTCOME

- To give awareness about immediate/wider surroundings through lived experiences on various themes related to daily life for example Family, Plants, Animals, Food, Water, Travel, and Shelter etc.
- To understand the nurture and natural curiosity and creativity for the immediate surroundings.
- To develop various processes/skills e.g. observation, discussion, explanation, experimentation, logical reasoning, through interaction with immediate surroundings.
- To develop sensitivity for the natural, physical and human resources in the immediate environment.

I-YEAR

II-SEMESTER

UPALP21	Professional English	Credit
		2

COURSE OUTCOME

- Students will be enabled to understand the basic objective of the course by being acquainted with specific dimensions of communication skills i.e. Reading, Writing, Listening, Thinking and Speaking.
- Students would be able to create substantial base by the formation of strong professional vocabulary for its application at different platforms and through numerous modes as Comprehension, reading, writing and speaking etc.
- Students will be made to evaluate the correct & error-free writing by being well-versed in rules of English grammar & cultivate relevant technical style of communication & presentation at their work place & also for academic uses.

II-YEAR

III-SEMESTER

SNTJC31	.NET programming Using ASP	Credit
		4

COURSE OUTCOME

- To understand the goals of ASP .NET 2.0 Visual studio 2005.
- To learn the properties of List box, Dropdown list box, checkbox and one or more server controls.
- To understand the SQL Data Source and XML Data source
- To gain knowledge about Site navigation and working with master pages.

II-YEAR

III-SEMESTER

SNTJC3P	LAB: .NET programming Using ASP	Credit
		4

COURSE OUTCOME

- To understand .NET framework
- To understand the basic structure of ASP.Net and features of IDE
- To design a website using ASP
- To handle controls in Forms (Message Box, Input Box), Windows MDI forms and Controls (Textbox, Creating Multiline, Word Wrap textboxes)
- To understand various controls in ASP.NET and able to develop programs using controls
- To connect database by using ADO.NET and manipulate the database

II-YEAR

III-SEMESTER

SNTJC32	Data structure and Computer Algorithms	Credit
		4

COURSE OUTCOME

- To understand the concept of Dynamic memory management, data types, algorithms, Big O notation.
- To understand basic data structures such as arrays, linked lists, stacks and queues.
- To describe the hash function and concepts of collision and its resolution methods
- To solve problem involving graphs, trees and heaps
- To apply Algorithm for solving problems like sorting, searching, insertion and deletion of data.

II-YEAR

III-SEMESTER

SNTJA31	DIGITAL Principles and Computer organization (Allied)	Credit
		4

COURSE OUTCOME

- To apply the principles of number system, binary codes and Boolean algebra to minimize logic expressions
- To develop K-maps to minimize and optimize logic functions up to 4 variables.
- To understand various combinational and sequential circuits such as encoders , decoders and counters using multiplexers, and flip – flops.
- To understand the basic computer organization and Micro programmed control.
- To understand the CISC, RISC and some memory peripheral devices.

II-YEAR

III-SEMESTER

SNTJS3P	LAB : Multimedia (Skill Based)	Credit
		2

COURSE OUTCOME

- To understand the basic tools in Flash
- To develop the Flash application using tween.
- To develop the Flash application using various effects like masking, layer based animations and guide layer animation.
- To develop the Flash application using Action script.

II-YEAR

IV-SEMESTER

SNTJC41	Java Programming	Credit
		4

COURSE OUTCOME

- To understand the fundamentals of programming such as variables, conditional statements and iterative execution statements.
- To understand the concepts of arrays, strings, packages and multithreading.
- To analyze the concepts of applet programming, graphics programming and files.
- To create a software application using the Java programming language.

II-YEAR

IV-SEMESTER

SNTJC4P	LAB : Java Programming	Credit
		4

COURSE OUTCOME

- To understand the basics of Java programming, multi-threaded programs and Exception handling
- To analyze and use Java in a variety of applications.
- To develop the debugging software application using the Java programming language.
- To animate the objects using Java Applet.

II-YEAR

IV-SEMESTER

SNTJC42	Operating System concepts	Credit
		4

COURSE OUTCOME

- To understand the basics of operating systems like kernel, shell, types and views of operating systems
- To describe the various CPU scheduling algorithms and remove deadlocks.
- To understand various memory management techniques and concept of thrashing
- To use disk management and disk scheduling algorithms for better utilization of external memory.
- To recognize file system interface, protection and security mechanisms.
- To gain knowledge about various features of distributed OS like Unix, Linux, windows etc.

II-YEAR

IV-SEMESTER

SNTJS4P	LAB: Web Programming (PHP & My SQL) (Skill based)	Credit
		2

COURSE OUTCOME

- To develop a basic PHP program for some Mathematical calculations
- To understand the concepts of server page and client page.

- To understand the concept of functions and for each loop.
- To develop a PHP program using My-SQL commands i.e., SELECT, DML and TCL commands

III-YEAR

V-SEMESTER

SNTJC51	Computer Network	Credit
		4

COURSE OUTCOME

- To understand computer network basics, network architecture, TCP/IP and OSI reference models.
- To identify and understand various techniques and modes of Transmission
- To describe data link protocols, multi-channel access protocols and IEEE 802 standards for LAN
- To describe routing and congestion in network layer with routing algorithms and classify IPV4 addressing scheme.
- To understand network security and define various protocols such as FTP, HTTP, Telnet, DNS

III-YEAR

V-SEMESTER

SNTJC52	Software Engineering	Credit
		4

COURSE OUTCOME

- To understand software engineering process life cycle , including the specification, design, implementation, and testing of
- software systems that meet specification, performance, maintenance and quality requirements
- To able to elicit, analyze and specify software requirements through a productive working relationship with various stakeholders of the project
- To analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
- To know how to develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice
- To able to use modern engineering tools necessary for software project management, time management and software reuse.

SNTJC53	Relational Database Management System	Credit
		4

COURSE OUTCOME

- To understand RDBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
- To identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.
- To learn and apply structured query language (SQL) for database definition and database manipulation.
- To demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
- To understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

SNTJC5P	LAB : Relational Database Management System	Credit
		3

COURSE OUTCOME

- To understand the DDL commands, Primary key and Candidate keys
- To apply the various DML commands for retrieval of information
- To perform all the Table join operations
- To develop simple applications using PL/SQL procedure

SNTJA51	Mobile Computing(Elective)	Credit
		4

COURSE OUTCOME

- To understand wireless networking and MAC protocols.
- To understand the Mobile internet protocols and Transport layer
- To understand Mobile Tele communication system.
- To gain the knowledge about mobile AD-hoc network.
- To develop the mobile platform and Applications.

III-YEAR

V-SEMESTER

CCRJN51	NME: Business Accounting	Credit
		2

COURSE OUTCOME

- To enable the students to learn principles and concepts of accountancy
- To introduce subsidiary books, trial balance system of accounts.
- To understand the system of preparing trading and profit and loss account and balance sheet

III-YEAR

V-SEMESTER

SNTJS5P	LAB: Networking (Skill based)	Credit
		2

COURSE OUTCOME

- To understand the concept of client and server using java program
- To send data from client to server using UDP and TCP
- To manipulate the mathematical operations using RMI concepts.
- To find the routing using CISCO Packet Tracer.

III-YEAR

VI-SEMESTER

SNTJC61	Android Programming	Credit
		4

COURSE OUTCOME

- To study about basic of Android OS.
- To understand the mobile application development
- To understand the concepts of building user interface
- To understand Action Bar, Dialogs, Notification and animation.
- To understand Home Screen Widgets, App Widgets
- To understand Android Databases

III-YEAR

VI-SEMESTER

SNTJC6P	LAB: Android Programming	Credit
		4

COURSE OUTCOME

- To design mobile simple application like display message, login module.
- To create spinner with string
- To develop mobile application with various control like menu, list, option button etc.,
- To create mobile application with databases
- To work with Edit Text and button
- To create camera application.
- To create media player and media recorder.

III-YEAR

VI-SEMESTER

SNTJC62	Computer Graphics	Credit
		4

COURSE OUTCOME

- To understand the survey of computer graphics and graphics system.
- To understand the various output primitives like filled area primitives
- To understand the two –dimensional geometric transformations.
- To understand the clipping and viewing techniques.

III-YEAR

VI-SEMESTER

SNTJA63	Python Programming(Elective)	Credit
		4

COURSE OUTCOME

- To understand the knowledge of basic Types and operations and string basics operations
- To understand the python statements and Boolean values.
- To able to understand the looping statements i.e., for loop.
- To analyses the Python scope basics.

III-YEAR

VI-SEMESTER

SNTJS61	Quantitative Aptitude(Skill based)	Credit
		2

COURSE OUTCOME

- To understand the concept of HCF and LCM.
- To understand the problems on numbers, square roots, cube roots, average, and problems on age.
- To understand the Percentage, Profit and Loss problems.
- To practice time and work and Time and distance sums.
- To calculate simple interest and compound interest.

SNTJC6R	Project work /Viva voice	Credit
		5

COURSE OUTCOME

- Students should be able to design and construct a hardware and software system, component, or process to meet desired needs.
- Students are provided to work on multidisciplinary Problems.
- Students should be able to work as professionals, with portfolio ranging from data management, network configuration, designing hardware, database and
- Software design to management and administration of entire systems.

SNTJN61	NME(Advertising and salesmanship)	Credit
		2

COURSE OUTCOME

- To study the Advertising and media
- To understand the concepts of personal selling and salesmanship
- To understand role of salesmanship and methods.



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Aruppukottai

Department of Commerce with Computer Application

PROGRAMME NAME: B.Com(CA)

Programme Outcome:

- Upon successful completion of this course it is expected that student will be capable to producing innovative solution to business activities.
- Applying computer based knowledge and skill to business challenges.
- Build a strong foundation in accounting management and business subjects.
- Enter master programmes like M.Com(CA), MBA and pursue professional programmes like C.A, CMA, C.S etc.
- Develop entrepreneurial skills.

Programme Specific Outcome:

- The students can get the knowledge, skills and attitudes during the end of the B.Com(CA) degree course.
- Understand the basic concepts and functions of accounting, trade and computer software.
- Analyses the scope of the business by adopting modern technology in the business practice.
- Determine the procedures and schedules to be followed on preparing financial statements of companies.
- Attain skills in conducting business transactions online.

Course Outcome:

SEMESTER-I

Vanikakkadithangal	<ul style="list-style-type: none">• To develop awareness regarding new trends in business communication, various media of communication and communication devices.• To make the students aware about the business communication.• To understand the process and importance of communication.
Introduction to PC Software and MS Office	<ul style="list-style-type: none">• To make the students to gain an in depth understanding of why computers are essential

	<p>components business.</p> <ul style="list-style-type: none"> To understand the use of MS office applications Word, Excel, Access and PowerPoint. It provide students about the key concepts and MS-Office terminologies.
Financial Accounting I	<ul style="list-style-type: none"> To enable the students to learn principles and concept of accountancy. To introduce single entry system of accounts. To understand the system of preparing Bill of Exchange.
Value Education	<ul style="list-style-type: none"> It helps the students to develop their characters. It improves inner personality of the students. It acts as a backbone in society.

SEMESTER-II

Kappeedu Kotpadugalum Nadaimuraigalum	<ul style="list-style-type: none"> To familiarize the students with basic concepts and practice of the principles of Insurance. To provide the students an understanding about the concept of risk and various types of Insurance. Gain knowledge of various kinds of Life Insurance and General Insurance in India.
Business Application Programming	<ul style="list-style-type: none"> Use the fundamentals of C programming in trivial problem solving. Enhance skill on problem solving by constructing algorithms.
Financial Accounting II	<ul style="list-style-type: none"> To gain knowledge about preparation of accounts in consignment and joint venture. To understand the system of preparing non-trading accounts and methods of depreciation.
Environmental Studies	<ul style="list-style-type: none"> Gain in-depth knowledge on natural process that sustain life and govern economy. Adopt sustainability as a practice in life society and industry. Develop critical thinking for scientific, social, economic and legal environmental protection.

SEMESTER-III

Data Base Applications	<ul style="list-style-type: none"> Students will be aware of the key concepts and database terminologies. It provide the students awareness about different data models and relationships in database and how to efficiently organize data in a database.
Financial Accounting III	<ul style="list-style-type: none"> To gain knowledge on preparation of accounts in their purchase and installment system To acquire the skill to prepare different type of branch accounts and department accounts.
Business Statistics	<ul style="list-style-type: none"> To understand the different concept of population and sample and to make students familiar with calculation of various types of averages and

	<p>variation.</p> <ul style="list-style-type: none"> To use regression and correlation analysis to estimate the relationship between two variables and to use frequency distribution to make decision. To understand the techniques and concept of different types of Time Series Analysis.
Cost Accounting	<ul style="list-style-type: none"> To understand basic concepts, elements of cost and cost sheet. To understand the difference between financial accounting and cost accounting. Ascertainment of material and labour cost.
Retail Marketing	<ul style="list-style-type: none"> To study the practical knowledge and tactics in the retail marketing. To study and analyses the basic concept of the product, market and consumer.

SEMESTER-IV

Introduction to Visual Programming	<ul style="list-style-type: none"> To study the key concept and database terminology. It provides the students awareness about different data models.
Banking Theory, Law and Practice	<ul style="list-style-type: none"> To familiarize the students with the basic concepts and practice of banking. To provide students understanding about recent trends and innovations in the banking sector.
Business Mathematics	<ul style="list-style-type: none"> To learn the application of matrices in business. To understand the different concept of number system, logarithms and interest calculations.
Financial Accounting IV	<ul style="list-style-type: none"> To familiarize the students with the provision relating partnership accounting. To familiarize the students with the procedure involved in admission, retirement and dissolution of partnership.
Goods and Services Tax	<ul style="list-style-type: none"> To understand concept and importance of goods and services tax. To study the impact of GST and types of GST. To understand the registration procedure for GST.

SEMESTER-V

Introduction to Multimedia and DTP	<ul style="list-style-type: none"> To provide knowledge regarding multimedia in Photoshop and Painting tools. To be acquainted with facts about Corel Draw basics including formatting text.
Business Law	<ul style="list-style-type: none"> To understand Laws related to sale of goods act 1930, consumer production act 1986. To provided a briefly idea about the contract, consideration and cyber law and contract the frame work of India Business Laws.
Income Tax Law and Practice I	<ul style="list-style-type: none"> Help students to know various tax procedures.

	<ul style="list-style-type: none"> • Update students with current taxation polices.
Financial Accounting V	<ul style="list-style-type: none"> • Create awareness about company accounts with provisions of various companies act. • To provide knowledge about issues of shares, debentures valuation of goodwill and amalgamation.
Export and Import Procedures and Document	<ul style="list-style-type: none"> • To impart basic knowledge on export documentation and procedures. • To provide basic concepts on import documentation and procedures.

SEMESTER VI

Fundamentals of Internet and Web Technology	<ul style="list-style-type: none"> • To provide basic knowledge of Internet. • To learn about designing a web page using scripting language. • To understand the concept of JSP.
Industrial Relations and Labour Laws II	<ul style="list-style-type: none"> • Examine the labour relation issues and its management. • To acquires skills in handling employer and employee relation.
Income Tax Law and Practice II	<ul style="list-style-type: none"> • To make the students to know about latest income tax laws and regulation. • Students get the knowledge of different tax provisions. • To understand the Income Tax system properly.
E-Commerce	<ul style="list-style-type: none"> • Helps the students to know about online business sectors. • To understand electronic payment system and its environment.
Tally	<ul style="list-style-type: none"> • To develop practical skills in the application of Tally accounting packages. • To make the students aware of the payroll information and vouchers.
Project Work on Job Training	<ul style="list-style-type: none"> • Provides learning experience to students. • Provides opportunity to students to synthesize knowledge from various area of learning.
Commerce Practical	<ul style="list-style-type: none"> • To enable the students to have practical knowledge of various forms. • To collect commercial related forms.



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Aruppukottai

Department of Commerce with Computer Application

PROGRAMME NAME: M.Com(CA)

Programme Outcome:

- Enables learners to get theoretical and practical exposure in the commerce with computer sector which includes Accounts, Commerce, Marketing, Management, Environment computer etc.
- Develops communication skills and build confidence to face the challenges of the corporate world.
- Enhances the capability of decision making at personal and professional levels.
- Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
- Develops entrepreneurial skills amongst learners.
- Strengthens their capacities in varied areas of commerce and industry aiming towards holistic development of learners.
- Thus, after completing their post graduation learners develop a thorough understanding of the fundamentals in Commerce and Finance with computer.

Course Outcome:

SEMESTER-I

Principles of information technology	<ul style="list-style-type: none">• To understand the basics of operating system• To know about programming language• To acquire knowledge about types of computer
Advanced Financial Accounting	<ul style="list-style-type: none">• To provide students sound and in-depth conceptual knowledge of advanced accounting topics• Understand the partnership accounting• Recognize, measure and analyze the effects of

	branch and departmental accounts
Auditing & Assurance	<ul style="list-style-type: none"> • To understand the basic principles of audit • Understand the concept of verification and valuation of assets and liabilities • To identify the role of auditors of detection of detection in frauds
Applied Cost accounting	<ul style="list-style-type: none"> • To ascertain the cost of manufacturing • To study the methods of costing • To impart knowledge of cost accounting standards
Entrepreneur Resource Planning	<ul style="list-style-type: none"> • To create reengineered business process for successful ERP implementation • Analyze the strategic options for ERP identification and adoption

SEMESTER -II

Computer Network	<ul style="list-style-type: none"> • Understand the concept of OSI layer • Understand the concept of • Use appropriate network tools to build network topologies • Conceptualize all the OSI layers protocols
Programming in C++	<ul style="list-style-type: none"> • To understand the basic structure and function of C++ • To understand the concept of function overloading, operator overloading for solving simple problems • To learn the concept of program with arrays, pointers, structure, union & files
Entrepreneurial development and project financing	<ul style="list-style-type: none"> • To understand the role of entrepreneurship in the process of economic development • To study the various theories of entrepreneurship • To obtain the knowledge of various institutions for entrepreneurial assistants
Financial management	<ul style="list-style-type: none"> • To study the outline of financial system in India • To understand the techniques of capital budgeting
Advanced business statistics	<ul style="list-style-type: none"> • The study the statistical tools • Apply probability rules

SEMESTER-III

Advanced corporate accounting and reporting	<ul style="list-style-type: none"> • To understand the accounting requirements for a corporate group
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	<ul style="list-style-type: none"> • To prepare consolidated groups
Database management systems	<ul style="list-style-type: none"> • To study the RDBMS • To understand the queries • To constructs queries with relational algebra
Web programming and technologies	<ul style="list-style-type: none"> • An ability to develop webpages • Use javascript for dynamic effects
Applied direct taxation E-filing	<ul style="list-style-type: none"> • To understand the basic concept of direct tax and basic definition related to direct tax and assessee

SEMESTER-IV

Research methodology	<ul style="list-style-type: none"> • To create a knowledge of research process • To familiarize the students to choose methodology appropriate to research and objectives
Operations research	<ul style="list-style-type: none"> • Identify and develop operational research models • To develop linear programming models • To study the use of CPM and PERT techniques
Computerized accounting and OA	<ul style="list-style-type: none"> • To study importance of computerized accounting • To know about stock maintenance through tally
Applied in direct taxation	<ul style="list-style-type: none"> • To acquire the knowledge of goods and services • Explores the process registration place and value of supply and computation of tax liability
Computer application oriented project	<ul style="list-style-type: none"> • Plan, analyze, design and implement a software project