



PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE

Gowrivakkam, Chennai-600073.

Affiliated to University of Madras, ISO 9001:2015 Certified Institution
Recognized by UGC under section 2(f) of UGC Act 1956

DEPARTMENT OF ELECTRONICS AND COMMUNICATION SCIENCE

2021-2022

COURSE OUTCOMES

YEAR/ SEM: I/ I – LA11A - TAMIL I

NO.	COURSE OUTCOME
C101.1	மரபு மற்றும் புதுக்கவிதைகளின் வாயிலாக அக்காலச் சூழல் மற்றும் சமூகச் சிக்கல்களை அறிகின்றனர்.
C101.2	நாட்டுப்புறப்பாடல்களின் வாயிலாக சமூகஅமைப்பு, வேளாண் செய்திகள் மற்றும் நீர்ப்பாசனம் போன்ற செய்திகளை அறிகின்றனர்.
C101.3	சிறுகதை மற்றும் உரைநடையின் வாயிலாகப் பல்வேறு காலச் சூழல்களை அறிகின்றனர்.
C101.4	நாற்காலிக்காரர் நாடகத்தின் வாயிலாக தேர்தல் களம் பற்றி அறிகின்றனர்.
C101.5	மொழிப்பயிற்சியின் வாயிலாக வாக்கியங்கள், இருவழக்குகள், சொல்வகைகள் ஆகியவற்றை அறிகின்றனர்.

YEAR/ SEM: I/ I – LE12A- HINDI I

NO.	COURSE OUTCOME
C102.1	To identify the theme and aims of prose lessons and functional Hindi
C102.2	To understand and summarise the theme
C102.3	To explain the ideology of literary works and writers
C102.4	To interpret the contextual meaning and differentiation
C102.5	To evaluate on the basis of elements, features and trends of prose



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YEAR/ SEM: I/I – LZ11A – COMMUNICATIVE ENGLISH

NO.	COURSE OUTCOME
C103.1	To develop the knowledge of skillful learning
C103.2	Ability to write coherent paragraphs with wide range of vocabulary
C103.3	To teach the aspects of grammar
C103.4	To learn word power and vocabulary skills other aspects of Communicative skill
C103.5	Ability to participate in short group conversations. Ability to use collocations, fixed and semifixed expressions.

YEAR/ SEM: I/I – SG21A – BASIC CIRCUIT THEORY

NO.	COURSE OUTCOME
C104.1	To simplify and identify solutions to electrical circuit
C104.2	To implement the techniques to solve simple circuits using ohm's law, Kirchhoff's law, and the properties of the elements
C104.3	To categorize series and parallel equivalents and using Thevenin and Norton equivalents
C104.4	To recognize resistors capacitors, inductors, and transient circuit responses
C104.5	To solve numerical problems based on circuits

YEAR/ SEM: I/I – SG211 – MAIN PRACTICAL I

NO.	COURSE OUTCOME
C105.1	To study CRO, Multimeter and other Testing Device
C105.2	To develop the ability to apply circuit analysis to DC circuits.
C105.3	To verify Ohm's Law using voltmeter and Ammeter
C105.4	To study Kirchhoff's law
C105.5	To construct Resistors in Series and Parallel



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YEAR/ SEM: I/I – SM3AA – MATHEMATICS I

NO.	COURSE OUTCOME
C106.1	To apply tools and ideas in Mathematics for Solving Applied Problems
C106.2	To understand the importance of Matrices and its Applications
C106.3	To acquire ideas on Theory of Equations and its Applications
C106.4	To understand knowledge about the Expansions of Trigonometric Functions, Hyperbolic Functions
C106.5	To acquire basics of differentiation, its applications and the notation of curvature and polar coordinates.

YEAR/ SEM: I/I – NLT1C – BASIC TAMIL

NO.	COURSE OUTCOME
C107.1	தமிழ் எழுத்துகளைத் தெரிந்து கொள்ளுதல்.
C107.2	தமிழ் ஒலியன்களை உச்சரிக்கக் கற்றுக் கொள்ளுதல்.
C107.3	எழுத்துக்களைக் கொண்டு சொற்களை உருவாக்குதல்.
C107.4	அன்றாடப் பயன்பாட்டு சொற்களைப் பயிற்றுவித்தல்.
C107.5	தமிழ்மொழியை அறிந்துகொள்ளுதல்.

YEAR/ SEM: I/I – SM5AA – FUNCTIONAL MATHEMATICS I

NO.	COURSE OUTCOME
C108.1	To apply Mathematical methodologies to understand and solve problems
C108.2	To understand brief description of learning objective
C108.3	To understand Quantitative Reasoning and improve mental alertness
C108.4	To increase arithmetic ability in problem solving and mathematical skills.
C108.5	To enable important measures for prospective business executive abilities.



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YEAR/ SEM: I/I – PZ1SA – ENGLISH FOR PHYSICAL SCIENCE I

NO.	COURSE OUTCOME
C109.1	To listen and comprehend complex academic texts
C109.2	To read and infer the denotative and connotative meanings of technical texts
C109.3	To write definitions, descriptions, narrations and essays on various topics
C109.4	To speak fluently and accurately in formal and informal communicative contexts
C109.5	To express their opinions effectively in both oral and written medium of communication

YEAR/ SEM: I/II – LA12A – TAMIL II

NO.	COURSE OUTCOME
C110.1	சங்க இலக்கியங்களின் வாயிலாக அக்கால மக்களின் வாழ்வியலை அறிகின்றனர்.
C110.2	புறநானூற்றின் வாயிலாக மன்னர்களின் போர்ச் சமூக அமைப்பை அறிகின்றனர்.
C110.3	முல்லைப்பாட்டின் வாயிலாக முல்லைநிலமக்களின் வாழ்வியல், பண்பாடு ஆகியவற்றை அறிகின்றனர்.
C110.4	திருக்குறள் மற்றும் நாலடியார் வாயிலாக ஈகை மற்றும் ஒழுக்கத்தை அறிகின்றனர்.
C110.5	மொழிப்பயிற்சி வாயிலாக தமிழைப் பிழையில்லாமல் எழுதவும் பேசவும் அறிகின்றனர்.

YEAR/ SEM: I/II – LE12A – HINDI II

NO.	COURSE OUTCOME
C111.1	To understand the Drama and the stories based on social problems.
C111.2	To understand the change in content and style of expression in short stories in the modern period
C111.3	To develop the skills of Translation from Hindi to English by using highly technical words
C111.4	To analyze the development of a one-act play



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C111.5	To learn technical words
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YEAR/ SEM: I/II – LZ12A – COMMUNICATIVE ENGLISH II

NO.	COURSE OUTCOME
C112.1	Ability to comprehend both the written and spoken texts. Ability to frame questions and answer them. Ability to write/speak grammatically correct sentences.
C112.2	To enroll people in our ideas, our visions, and our visions.
C112.3	To enhance listening skills
C112.4	Awareness of the art of personal letter/email writing without grammatical errors.
C112.5	To analyse crucial for effectiveness – particularly in sales or leadership roles.

YEAR/ SEM: I/II – SG22A – ELECTRONICS DEVICES

NO.	COURSE OUTCOME
C113.1	To Recognize the diodes as rectifiers
C113.2	To Identify the operation of transistors and as switching circuits
C113.3	To Compare the operation of transistors and FETs
C113.4	To Describe the fundamental operation of semiconductor electronic devices
C113.5	To analyze PN junctions in semiconductor devices under various conditions.

YEAR/ SEM: I/II – SG221 – MAIN PRACTICAL II

NO.	COURSE OUTCOME
C114.1	To study V-I Characteristics of Junction Diode.
C114.2	To learn Rectifier circuits – Half Wave, Center-tapped Full wave.
C114.3	To construct Bridge Rectifier



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C114.4	To observe V-I Characteristics of Zener Diode
C114.5	To note Regulated Power Supply using Zener Diode

YEAR/ SEM: I/II – SM3AE – MATHEMATICS II

NO.	COURSE OUTCOME
C115.1	To gain knowledge about basic concepts of Differential Equation, Laplace Transforms, Vector Analysis and Calculus
C115.2	To acquire the knowledge of mathematics to Computer studies
C115.3	To understand the different methods of solving. Laplace and Inverse Laplace Transforms problems and applying it on solving Differential Equations
C115.4	To understand the Types of Integration and Reduction Formula
C115.5	To apply ideas in vector analysis and understand the interpretation in science.

YEAR/ SEM: I/II – SM5AB – FUNCTIONAL MATHEMATICS II

NO.	COURSE OUTCOME
C116.1	To make mathematics functional in everyday life
C116.2	To include recognizing and being able to solve Mensuration problems
C116.3	To understand and evaluate problems in Time, Work and Distance
C116.4	To have a grasp of stock and shares
C116.5	To make effective use in better understanding the world and in meeting its challenges

YEAR/ SEM: I/II – NLT2D – BASIC TAMIL

NO.	COURSE OUTCOME
C117.1	தமிழ் இலக்கியங்களை அறிந்து கொள்ளுதல்.
C117.2	அற இலக்கியங்களைத் தெரிந்து கொள்ளுதல்.



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C117.3	திருக்குறளின் சிறப்புகளை அறிந்து கொள்ளுதல்.
C117.4	தமிழர்களின் பண்பாடு, நாகரிகம் போன்றவற்றைத் தெரிந்து கொள்ளுதல்.
C117.5	தமிழகத்தின் விழாக்களை அறிந்து கொள்ளுதல்.

YEAR/ SEM: I/II – PZ1SC – ENGLISH FOR PHYSICAL SCIENCES II

NO.	COURSE OUTCOME
C118.1	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
C118.2	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
C118.3	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.
C118.4	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
C118.5	To apply it for practical and oral presentation purposes by being honed up in presentation skills and voice-dynamics. They will apply techniques for developing inter-personal communication skills and positive attitude leading to their professional competence.

YEAR/ SEM: II/III – SG23A –ANALOG ELECTRONICS

NO.	COURSE OUTCOME
C201.1	To design and analyze electronic circuits
C201.2	To recognize power amplifier circuits, their design and uses in electronics and communication circuits
C201.3	To know the concept of Multistage and feedback amplifier and their characteristics
C201.4	To design the different oscillator circuits for various frequencies
C201.5	To study about design of circuits using Operational Amplifier and IC 555



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YEAR/ SEM: II/III – SG23B – NUMERICAL METHODS

NO.	COURSE OUTCOME
C202.1	To demonstrate the mathematical skills of the students in the areas of numerical methods
C202.2	To analyze the accuracy of common numerical methods
C202.3	Categorize to solve the numerical problems
C202.4	To define the most appropriate numerical method for its solution
C202.5	Locate the method to correctly interpret the results

YEAR/ SEM: II/III – SG23C – DIGITAL ELECTRONICS

NO.	COURSE OUTCOME
C203.1	To identify the structure of various number systems and its application in digital design
C203.2	To analyze various combinational and sequential circuits
C203.3	To analyze how to interface digital circuits with analog components
C203.4	To identify and differentiate digital electronics applications.
C203.5	To implement simple logical operations using combinational and sequential logic circuits.

YEAR/ SEM: II/III – SG33A – BASIC PHYSICS I

NO.	COURSE OUTCOME
C204.1	To define the basics of properties of matter, how Young's modulus and rigidity modulus are defined and how they are evaluated for different shapes of practical relevance
C204.2	To describe the fundamentals of harmonic oscillator model, including damped and forced oscillators and grasp the significance of terms like quality factor and damping coefficient
C204.3	To describe the general equation of wave motion in general and TM waves in stretched strings and longitudinal waves in gases



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C204.4	To recognize the general terms in acoustics like intensity, loudness, reverberation etc,
C204.5	To study in detail about production, detection, properties and uses of ultrasonic waves

YEAR/ SEM: II/III – SG231 – CORE PRACTICAL III

NO.	COURSE OUTCOME
C205.1	To design OPAMP - Inverting and Non-Inverting modes, Unity Follower
C205.2	To analyze OPAMP – Summing Amplifiers (Inverting and Non-Inverting Modes)
C205.3	To analyze OPAMP - Integrator and Differentiator
C205.4	To study OPAMP –Square Wave Generator
C205.5	To construct OPAMP – Sine Wave Generator

YEAR/ SEM: II/III – SG232 – CORE PRACTICAL IV

NO.	COURSE OUTCOME
C206.1	To study RS, D, T and JK Flip-Flops with IC's
C206.2	To study about Universality of NAND & NOR gates
C206.3	Verification of Boolean laws using NAND gates (Associative, Commutative & Distributive Laws)
C206.4	To learn about verification of Boolean laws using NOR gates (Associative, Commutative & Distributive Laws)
C206.5	To analyze Half and Full Adder using Simple & NAND Gates.

YEAR/ SEM: II/IV – TSSEG – PERSONALITY ENRICHMENT I

NO.	COURSE OUTCOME
C207.1	To develop and exhibit an accurate sense of self.
C207.2	To demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment



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C207.3	To evaluate and improve upon personal leadership strengths and weaknesses
C207.4	To build self-awareness, personal development, and life skills.
C207.5	To assert strengthened personal character and further, an enhanced ethical sense.

YEAR/ SEM: II/IV – SG24A – PRINCIPLES OF COMMUNICATION

NO.	COURSE OUTCOME
C208.1	To describe the basic principles of communication system.
C208.2	To differentiate analog and digital communication systems
C208.3	To demonstrate the parameters for various types of modulation and demodulation techniques
C208.4	To identify basic communication problem
C208.5	To analyze transmitter and receiver circuits

YEAR/ SEM: II/IV – SG24B – PROGRAMMING IN ‘C’

NO.	COURSE OUTCOME
C209.1	To implement programs using Functions, Pointers, and Structures in C language
C209.2	To implement files and perform file operations
C209.3	To perform the execution of programs written in C language
C209.4	To identify the C code for a given algorithm
C209.5	To study application of C language

YEAR/ SEM: II/IV – SG24C – MICROPROCESSOR (INTEL 8085)

NO.	COURSE OUTCOME
C210.1	To describe the architecture of 8085 microprocessor



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C210.2	To analyze assembly language Programmes
C210.3	To implement programme efficiency using various addressing modes
C210.4	To perform Interfacing of memory & various I/O devices with 8085 microprocessors
C210.5	To design simple interfaces to Intel-8085

YEAR/ SEM: II/IV – SG241 – PROGRAMMING IN C PRACTICAL

NO.	COURSE OUTCOME
C211.1	To understand the different types of variables and operators in C programming and their use in different types of operations
C211.2	To understand the decision making and looping structures in C and use it in program implementations
C211.3	To understand the purpose of functions in C
C211.4	To understand how data storage and access in arrays in C.
C211.5	To learn file operations and data manipulations using pointers in C

YEAR/ SEM: II/IV – SG242 – CORE PRACTICAL V

NO.	COURSE OUTCOME
C212.1	To recognize the microprocessor as a programmable digital system element.
C212.2	To learn basic concepts of microprocessors using assembly language programming
C212.3	To develop an in-depth understanding of the operation of microprocessors and machine language programming & interfacing techniques
C212.4	To design simple interfaces to Intel-8085.
C212.5	To comprehend the various peripheral interface circuits that are necessary for the operation of Intel-8085



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YEAR/ SEM: II/IV – SG34A – BASIC PHYSICS - II

NO.	COURSE OUTCOME
C213.1	To define the basic concepts behind Optics, Nuclear Properties and Radio Activity
C213.2	To describe the basics of Laser
C213.3	To implement the applications of fibre Optics
C213.4	To understand the fundamental laws and their applications in measuring many physical quantities
C213.5	To understand telecommunication.

YEAR/ SEM: II/IV – SG341 – BASIC PHYSICS PRACTICAL

NO.	COURSE OUTCOME
C214.1	To understand the basic principles and fundamentals of Physics
C214.2	To comprehend different fields of Physics.
C214.3	To analyze the tools and methods that Physicists use range from balance scales to ultrasonics, laser beam emitters
C214.4	To recognize the fundamental laws and their applications in measuring many physical quantities
C214.5	To understand where Physics principles can be applied to the development of Technology

YEAR/ SEM: II/IV – TSSSEN – QUANTITATIVE APPTITUDE

NO.	COURSE OUTCOME
C215.1	To apply quantitative reasoning and mathematical methodologies to understand and to solve problems
C215.2	To understand brief description of learning objective
C215.3	To acquire mental alertness and have a sharp mind.
C215.4	To ensure testing ability in various competitive examinations.



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C215.5	To enable the important measure for prospective business executive abilities.
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YEAR/ SEM: II/IV – ENV4B – ENVIRONMENTAL STUDIES

NO.	COURSE OUTCOME
C216.1	To know the scope and importance of environmental studies and to create public awareness for environmental protection.
C216.2	To elucidate the problems created by the over utilization of resources and to suggest alternate energy to meet our energy crisis/demand
C216.3	To give a neat sketch explanation of ecosystem, ecological succession, ecological pyramid, food chain and food web
C216.4	To know the different methods of biodiversity conservation
C216.5	To analyse the effects of pollution and the role of individual for pollution control programme

YEAR/ SEM: III/V – TAG5A – MICROPROCESSOR (INTEL 8085)

NO.	COURSE OUTCOME
C301.1	To know the microprocessor as a programmable digital system element
C301.2	To illustrate some basic concepts of microprocessors through the use of assembly language programming
C301.3	To develop an in-depth understanding of the operation of microprocessors and machine language programming & interfacing techniques
C301.4	To design simple interfaces to Intel-8085.
C301.5	To comprehend the various peripheral interface circuits that are necessary for the operation of Intel-8085

YEAR/ SEM: III/V – TAG5B – ANTENNAS AND TELEVISION ENGINEERING

NO.	COURSE OUTCOME
C302.1	To provide the basic knowledge about the fundamentals of antenna
C302.2	To describe the electromagnetic radiation with application to antenna theory and design
C302.3	To understand the applications of the electromagnetic waves in free space



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C302.4	To study the analysis and synthesis of TV Pictures, Composite Video Signal, Receiver Picture tubes and Television Camera Tubes
C302.5	To study the advanced topics in digital television and High-definition television

YEAR/ SEM: III/V – TAG5C – ELECTRICAL AND ELECTRONICS INSTRUMENTATION

NO.	COURSE OUTCOME
C303.1	To know the basic concepts related to the operation of Electrical and Electronic Measuring Instruments
C303.2	To understand the proper application of electronic instruments
C303.3	To study the basics of design of analog and digital circuits used in electronic instrumentation
C303.4	To understand basic electronic instrument terminology
C303.5	To study AC and DC Bridges

YEAR/ SEM: III/V – TAG51 – MAIN PRACTICAL 5

NO.	COURSE OUTCOME
C304.1	To know the microprocessor as a programmable digital system element
C304.2	To design simple interfaces to Intel-8085
C304.3	To develop an in-depth understanding of the operation of microprocessors and machine language
C304.4	To develop an in-depth understanding of the operation of microprocessors and machine language
C304.5	To develop skill in simple program writing for INTEL 8085

YEAR/ SEM: III/V – TEGAG – CONSUMER ELECTRONICS

NO.	COURSE OUTCOME
C305.1	To learn the functioning of microwave ovens
C305.2	To know about Washing machine hardware and software, Types of washing machines, Fuzzy logic washing machines, Features of washing machines



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C305.3	To know the operating principle of air conditioning systems, Unitary and central air conditioning systems, Split air conditioners.
C305.4	To know about Xerographic copier and Digital clocks
C305.5	To study about Barcode Scanner and decoder

YEAR/ SEM: III/V – VAE5Q – VALUE EDUCATION

NO.	COURSE OUTCOME
C306.1	To understand the importance of value education
C306.2	To learn about salient values for life and problem solving and decision-making skills
C306.3	To know the importance of human rights & social values
C306.4	To know the importance of environment and ecological balance
C306.5	To learn about social evils and how to tackle them.

YEAR/ SEM: III/VI – TAG6A - MICROCONTROLLER

NO.	COURSE OUTCOME
C307.1	To familiarize with different types of Microcontrollers
C307.2	To know 8051 microcontrollers in detail
C307.3	To learn Programming and Interfacing with 8051 microcontroller
C307.4	To develop an in-depth understanding of the operation of microcontrollers & interfacing techniques
C307.5	To understand and use various IO devices such as keypads, stepper motor, A to D.

YEAR/ SEM: III/VI – TAG6B – ADVANCED ELECTRONICS

NO.	COURSE OUTCOME
C308.1	To understand the fundamentals of optoelectronics and principles of the optoelectronic device's operation



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C308.2	To be familiar with recent trends in optoelectronics & MEMS
C308.3	To study the basic concepts of smart phones
C308.4	To understand the fundamental concepts of nanoelectronics
C308.5	To study the basic concepts of Data Communication

YEAR/ SEM: III/VI – TAG6C – COMPUTER NETWORKS

NO.	COURSE OUTCOME
C309.1	To learn the definition and basic terminology of Computer Networks
C309.2	To know about Multiplexing, transmission media and signals
C309.3	To learn the functioning of OSI model and to describe the responsibilities of each layer
C309.4	To know about the individual components and functioning of the Internet
C309.5	To learn about the hardware components used in the networking

YEAR/ SEM: III/VI – TAG61 – MAIN PRACTICAL 6

NO.	COURSE OUTCOME
C310.1	To familiarize with different types of Microcontroller
C310.2	To know 8051 microcontroller in detail
C310.3	To learn Programming and Interfacing with 8051 microcontroller
C310.4	To develop an in-depth understanding of the operation of microcontrollers & interfacing techniques
C310.5	To Understand and use various IO devices such as keypads, stepper motor, A to D

YEAR/ SEM: III/VI – TAG6Q - PROJECT

NO.	COURSE OUTCOME
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PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE

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C311.1	Ability to construct circuit with Arduino board
C311.2	Identify real-life problems and suggest possible solutions
C311.3	Design an electronic circuit using hardware-software interfacing.
C311.4	Ability to communicate technical information by means of written reports and oral presentation
C311.5	Apply project management skills in development of projects.

YEAR/ SEM: III/VI – TEGAB– INDUSTRIAL ELECTRONICS

NO.	COURSE OUTCOME
C312.1	To familiarize students to the principle of operation, design and applications of Thyristor
C312.2	To learn about the electronic devices used in industry
C312.3	To understand induction motors
C312.4	To understand the basic operation of Invertors
C312.5	To know the applications of LASER, Ultrasonics and Radar