# Vidya Academy of Science & Technology

**(A unit of Vidya International Charitable Trust)**

Thalakkottukara PO, Thrissur, Kerala, India, Pin- 680 501

Phone: +91-4885-287751, 287752, Fax: 288366


## COURSE OUTCOMES

**Branch: DEPARTMENT OF AIML ENGINEERING**

**2019 SCHEME**

**After the completion of the course the Students will be able to**

| S. No. | SEM | Subject | CO | CO statement |
|---|---|---|---|---|
| 1 | S1 | MAT 101 LINEAR ALGEBRA AND CALCULUS | MAT101.1 | solve systems of linear equations, diagonalize matrices and characterise quadratic forms |
| | | | MAT101.2 | compute the partial and total derivatives and maxima and minima of multivariable functions |
| | | | MAT101.3 | compute multiple integrals and apply them to find areas and volumes of geometrical shapes,mass and centre of gravity of plane laminas |
| | | | MAT101.4 | perform various tests to determine whether a given series is convergent, absolutely convergent or conditionally convergent |
| | | | MAT101.5 | determine the Taylor and Fourier series expansion of functions and learn their applications. |
| 2 | S1 | PHT 100 ENGINEERING PHYSICS | PHT100.1 | compute the quantitative aspects of waves and oscillations in engineering systems. |
| | | | PHT100.2 | apply the interaction of light with matter through interference, diffraction and identify these phenomena in different natural optical processes and optical instruments. |
| | | | PHT100.3 | analyze the behaviour of matter in the atomic and subatomic level through the |

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| | | | | |
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| | | | | principles of quantum mechanics to perceive the microscopic processes in electronic devices. |
| | | | PHT100.4 | classify the properties of magnetic materials and apply vector calculus to static magnetic fields and use Maxwell's equations to diverse engineering problem |
| | | | PHT100.5 | analyze the principles behind various superconducting applications, explain the working of solid state lighting devices and fibre optic communication system |
| 3 | S1 | EST 100 ENGINEERING MECHANICS | EST100.1 | recall principles and theorems related to rigid body mechanics |
| | | | EST100.2 | identify and describe the components of system of forces acting on the rigid body |
| | | | EST100.3 | apply the conditions of equilibrium to various practical problems involving different force system. |
| | | | EST100.4 | choose appropriate theorems, principles or formulae to solve problems of mechanics. |
| | | | EST100.5 | solve problems involving rigid bodies, applying the properties of distributed areas and masses |
| 4 | S1 | EST 120 BASICS OF CIVIL AND MECHANICAL ENGINEERING | EST120.1 | recall the role of civil engineer in society and to relate the various disciplines of Civil Engineering with special focus on Building construction and basics of Surveying |
| | | | EST120.2 | summarize the basic infrastructure services MEP, HVAC, elevators, escalators and ramps and discuss the |

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| | | | | Materials, energy systems, water management and environment for green buildings. |
| | | | EST120.3 | analyse thermodynamic cycles and their efficiency for illustrating working of IC Engines. |
| | | | EST120.4 | explain the basic principles of refrigeration, air conditioning, hydraulic turbines and power transmission elements. |
| | | | EST120.5 | describe the basic manufacturing, metal joining and machining processes. |
| 5 | S1 | HUN 101 LIFE SKILLS | HUN101.1 | define and identify different life skills required in personal and professional life |
| | | | HUN101.2 | develop an awareness of the self and apply well-defined techniques to cope with emotions and stress |
| | | | HUN101.3 | explain the basic mechanics of effective communication and demonstrate these through presentations and use appropriate thinking and problem solving techniques to solve new problems |
| | | | HUN101.4 | take part in group discussions |
| | | | HUN101.5 | understand the basics of teamwork and leadership |
| 6 | S1 | PHL 120 ENGINEERING PHYSICS LAB | PHL120.1 | develop analytical/experimental skills and impart prerequisite hands on experience for engineering laboratories |
| | | | PHL120.2 | understand the need for precise measurement practices for data recording |
| | | | PHL120.3 | understand the principle, concept, working and applications of relevant |

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| | | | | technologies and comparison of results with theoretical calculations |
| | | | PHL120.4 | analyze the techniques and skills associated with modern scientific tools such as lasers and fiber optics |
| | | | PHL120.5 | develop basic communication skills through working in groups in performing the laboratory experiments and by interpreting the results |
| 7 | S1 | ESL 120 CIVIL AND MECHANICAL WORKSHOP | ESL120.1 | name different devices and tools used for civil engineering measurements and Explain the use of various tools and devices for various field measurements |
| | | | ESL120.2 | demonstrate the steps involved in basic civil engineering activities like plot measurement, setting out operation, evaluating the natural profile of land, plumbing and undertaking simple construction work. |
| | | | ESL120.3 | choose materials and methods required for basic civil engineering activities like field measurements, masonry work and plumbing and Compare different techniques and devices used in civil engineering measurements |
| | | | ESL120.4 | identify Basic Mechanical workshop operations with appropriate Tools and Instruments with respect to the mechanical workshop trades in accordance with the material and Objects. |
| | | | ESL120.5 | apply appropriate safety measures with respect to the mechanical workshop trades. |

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| 8 | S2 | MAT 102 VECTOR CALCULUS, DIFFERENTAIL EQUATIONS AND TRASNFORM | MAT102.1 | compute the derivatives and line integrals of vector functions and learn their applications |
| | | | MAT102.2 | evaluate surface and volume integrals and learn their inter-relations and applications. |
| | | | MAT102.3 | solve homogeneous and non-homogeneous linear differential equation with constant coefficients |
| | | | MAT102.4 | compute Laplace transform and apply them to solve ODEs arising in engineering |
| | | | MAT102.5 | determine the Fourier transforms of functions and apply them to solve problems arising in engineering |
| 9 | S2 | CYT 100 ENGINEERING CHEMISTRY | CYT100.1 | apply the basic concepts of electrochemistry and corrosion to explore its possible applications in various engineering fields. |
| | | | CYT100.2 | understand various spectroscopic techniques like UV-Visible, IR, NMR and its applications. |
| | | | CYT100.3 | apply the knowledge of analytical method for characterizing a chemical mixture or a compound. Understand the basic concept of SEM for surface characterisation of nanomaterials. |
| | | | CYT100.4 | learn about the basics of stereochemistry and its application. Apply the knowledge of conducting polymers and advanced polymers in engineering. |
| | | | CYT100.5 | study various types of water treatment methods to develop skills for treating wastewater. |

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| 10 | S2 | EST 110 ENGINEERING GRAPHICS | EST110.1 | draw the projection of points and lines located in different quadrants |
| | | | EST110.2 | prepare multi-view orthographic projections of objects by visualizing them in different positions |
| | | | EST110.3 | draw sectional views and develop surfaces of a given object |
| | | | EST110.4 | prepare pictorial drawings using the principles of isometric and perspective projections to visualize objects in three dimensions |
| | | | EST110.5 | convert 3D views to orthographic views and vice versa using CAD tools |
| 11 | S2 | EST 130 BASICS OF ELECTRICAL AND ELECTRONICS ENGINEERING | EST130.1 | apply fundamental concepts and circuit laws to solve simple DC electric circuits. |
| | | | EST130.2 | develop and solve models of magnetic circuits. |
| | | | EST130.3 | apply the fundamental laws of electrical engineering to solve simple ac circuits in steady state. |
| | | | EST130.4 | describe the working of a voltage amplifier and to outline the principle of an electronic instrumentation system. |
| | | | EST130.5 | explain the principle of radio and cellular communication. |
| 12 | S2 | HUN 102 PROFESSIONAL COMMUNICATION | HUN102.1 | develop vocabulary and language skills relevant to engineering as a profession. |
| | | | HUN102.2 | get the capability to analyze, interpret and effectively summarize a variety of textual content. |
| | | | HUN102.3 | create effective technical presentations. |
| | | | HUN102.4 | discuss a topic in a group setting and arrive at generalizations/ conclusions. |

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| | | | HUN102.5 | create professional and technical documents with required relevance and clarity. |
| 13 | S2 | EST 102 PROGRAMING IN C | EST102.1 | analyze a computational problem and develop an algorithm/flowchart to find its solution. |
| | | | EST102.2 | develop readable C programs with branching and looping statements, which uses Arithmetic, Logical, Relational or Bitwise operators. |
| | | | EST102.3 | write readable C programs with arrays,structure or union for storing the data to be processed. |
| | | | EST102.4 | divide a given computational problem into a number of modules and develop a readable multi-function C program by using recursion if required, to find the solution to the computational problem. |
| | | | EST102.5 | write readable C programs which use pointers for array processing and parameter passing. Develop readable C programs with files for reading input and storing output. |
| 14 | S2 | CYL 120 ENGINEERING CHEMISTRY LAB | CYL120.1 | understand and practice different techniques of quantitative chemical analysis to generate experimental skills and apply these skills to various analyses |
| | | | CYL120.2 | develop skills relevant to synthesize organic polymers and acquire the practical skill to use TLC for the identification of drugs |
| | | | CYL120.3 | develop the ability to understand and explain the use of modern spectroscopic techniques for analysing and interpreting |

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| | | | | the IR spectra and NMR spectra of some organic compounds |
| | | | CYL120.4 | acquire the ability to understand, explain and use instrumental techniques for chemical analysis |
| | | | CYL120.5 | learn to design and carry out scientific experiments as well as accurately record and analyze the results of such experiments |
| 15 | S2 | ESL 130 ELECTRICAL AND ELECTRONICS WORKSHOP | ESL130.1 | demonstrate safety measures against electric shocks. |
| | | | ESL130.2 | identify the tools used for electrical wiring, electrical accessories, wires, cables, batteries and standard symbols. |
| | | | ESL130.3 | develop the connection diagram, identify the suitable accessories and materials necessary for wiring simple lighting circuits for domestic buildings |
| | | | ESL130.4 | identify and test various electronic components |
| | | | ESL130.5 | make use of BIS/IEEE symbols to draw circuit schematics and experiment with and test electronic circuits on board |
| 16 | S3 | MAT 203 DISCRETE MATHEMATICAL STRUCTURES | MAT203.1 | check the validity of predicates in Propositional and Quantified Propositional Logic using truth tables, deductive reasoning and inference theory on Propositional Logic |
| | | | MAT203.2 | solve counting problems by applying the elementary counting techniques - Rule of Sum, Rule of Product, Permutation, Combination, Binomial Theorem, Pigeonhole Principle and Principle of Inclusion and Exclusion |

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| | | | MAT203.3 | classify binary relations into various types and illustrate an application for each type of binary relation, in Computer Science Illustrate an application for Partially Ordered Sets and Complete Lattices, in Computer Science |
| | | | MAT203.4 | explain Generating Functions and solve First Order and Second Order Linear Recurrence Relations with Constant Coefficients |
| | | | MAT203.5 | illustrate the abstract algebraic systems – Semigroups , Monoids, Groups, Homomorphism and Isomorphism of Monoids and Groups |
| 17 | S3 | CST 201 DATA STRUCTURES | CST201.1 | design an algorithm for a computational task and calculate the time/space complexities of that algorithm |
| | | | CST201.2 | produce algorithms for given computational problems like searching, scheduling and expression conversions by understanding basic data structures such as array, stack and queue. |
| | | | CST201.3 | identify the suitable data structure (array or linked list) to represent a data item required to be processed and write an algorithm to solve a given computational problem by understanding the basic concepts of memory allocation and deallocation. |
| | | | CST201.4 | write an algorithm to find the solution of a computational problem by selecting an appropriate data structure (binary tree/graph) to represent a data item to be processed. |

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| | | | CST201.5 | store a given dataset using an appropriate hash function to enable efficient access of data in the given set. Understand various sorting algorithms, select appropriate sorting algorithms to be used in specific circumstances |
| 18 | S3 | CST 203 LOGIC SYSTEM DESIGN | CST203.1 | illustrate decimal, binary, octal, hexadecimal and BCD number systems, perform conversions among them and do the operations - complementation, addition, subtraction, multiplication and division on binary numbers |
| | | | CST203.2 | simplify a given Boolean Function and design a combinational circuit to implement the simplified function using Digital Logic Gates |
| | | | CST203.3 | design combinational circuits - Adders, Code Convertors, Decoders, Magnitude Comparators, Parity Generator/Checker and design the Programmable Logic Devices - ROM and PLA. |
| | | | CST203.4 | design sequential circuits - Registers, Counters and Shift Registers |
| | | | CST203.5 | dse algorithms to perform addition and subtraction on binary, BCD and floating point numbers |
| 19 | S3 | CST 205 OBJECT ORIENTED PROGRAMMING USING JAVA | CST205.1 | write Java programs using the object oriented concepts - classes, objects, constructors, data hiding, inheritance and polymorphism |
| | | | CST205.2 | utilise datatypes, operators, control statements, built in packages & interfaces, Input/ Output Streams and Files in Java to develop programs |

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| | | | CST205.3 | illustrate how robust programs can be written in Java using exception handling mechanism |
| | | | CST205.4 | write application programs in Java using multithreading and database connectivity |
| | | | CST205.5 | Write Graphical User Interface based application programs by utilising event handling features and Swing in Java |
| 20 | S3 | EST 200 DESIGN AND ENGINEERING | EST200.1 | explain different concepts and principles involved in design engineering. |
| | | | EST200.2 | discuss and demonstrate the workability of solutions for design problems and Apply design thinking while learning and practicing engineering. |
| | | | EST200.3 | compare designs covering function, cost, environmental sensitivity, safety factors along with engineering analysis. |
| | | | EST200.4 | develop innovative, reliable, sustainable and economically viable designs incorporating knowledge in engineering. |
| | | | EST200.5 | judge the optimal solution from the available choice. |
| 21 | S3 | MCN 201 SUSTAINABLE ENGINEERING | MCN201.1 | understand the relevance and the concept of sustainability and the global initiatives in this direction |
| | | | MCN201.2 | explain the different types of environmental pollution problems and their sustainable solutions |
| | | | MCN201.3 | discuss the environmental regulations and standards |
| | | | MCN201.4 | outline the concepts related to conventional and non-conventional energy |

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| | | | MCN201.5 | demonstrate the broad perspective of sustainable practices by utilizing engineering knowledge and principles |
| 22 | S3 | CSL 201 DATA STRUCTURES LAB | CSL201.1 | write a time/space efficient program using arrays to provide necessary functionalities meeting a given set of user requirements |
| | | | CSL201.2 | write a time/space efficient program using linked lists to provide necessary functionalities meeting a given set of user requirements |
| | | | CSL201.3 | write a time/space efficient program graphs to provide necessary functionalities meeting a given set of user requirements |
| | | | CSL201.4 | write a time/space efficient program to sort a list of records based on a given key in the record |
| | | | CSL201.5 | design and implement an efficient data structure to represent given data |
| 23 | S3 | CSL203 OBJECT ORIENTED PROGRAMMING LAB | CSL203.1 | implement the Object Oriented concepts - constructors, inheritance, method overloading & overriding and polymorphism in Java |
| | | | CSL203.2 | implement programs in Java which use datatypes, operators, control statements, built in packages & interfaces, Input/Output streams and Files |
| | | | CSL203.3 | implement robust application programs in Java using exception handling |
| | | | CSL203.4 | implement application programs in Java using multithreading and database connectivity |
| | | | CSL203.5 | implement Graphical User Interface based application programs by utilizing |

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| | | | | event handling features and Swing in Java |
| 24 | S4 | MAT 216 MATHEMATICAL FOUNDATIONS FOR MACHINE LEARNING | MAT206.1 | make use of the concepts, rules and results about linear equations, matrix algebra and vector spaces to solve computational problems |
| | | | MAT206.2 | make use of the concepts of eigenvalues & eigenvectors and orthogonality & diagonalization to solve computational problems |
| | | | MAT206.3 | perform calculus operations on functions of several variables and matrices, including partial derivatives and gradients |
| | | | MAT206.4 | utilize the concepts, rules and results about probability, random variables, additive & multiplicative rules, conditional probability, probability distributions and Bayes' theorem to find solutions of computational problems |
| | | | MAT206.5 | Train Machine Learning Models using unconstrained and constrained optimization methods |
| 25 | S4 | CST 202 COMPUTER ORGANIZATION AND ARCHITECTURE | CST202.1 | identify the basic structure and roles of various functional units of a computer and analyze the effect of addressing modes during the execution time of a program. |
| | | | CST202.2 | explore the complete steps in an instruction execution and demonstrate computer arithmetic operations on integer and real numbers |
| | | | CST202.3 | select appropriate interfacing standards for I/O devices. |

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| | | | CST202.4 | understand memory hierarchy and its impact on computer cost/performance |
| | | | CST202.5 | build simple arithmetic and logical units.Identify and analyze pros and cons of different types of control logic design in processors. |
| 26 | S4 | CST 204 DATABASE MANAGEMENT SYSSTEMS | CST204.1 | summarize and exemplify fundamental nature and characteristics of database systems |
| | | | CST204.2 | model real word scenarios given as informal descriptions, using Entity Relationship diagrams. |
| | | | CST204.3 | model and design solutions for efficiently representing and querying data using relational model |
| | | | CST204.4 | demonstrate the features of indexing and hashing in database applications |
| | | | CST204.5 | discuss and compare the aspects of Concurrency Control and Recovery in Database Systems and Explain various types of NoSQL databases |
| 27 | S4 | CST 206 OPERATING SYSTEMS | CST206.1 | explain the relevance, structure and functions of Operating Systems in computing devices. |
| | | | CST206.2 | illustrate the concepts of process management and process scheduling mechanisms employed in Operating Systems. |
| | | | CST206.3 | explain process synchronization in Operating Systems and illustrate process synchronization mechanisms using Mutex Locks, Semaphores and Monitors |
| | | | CST206.4 | explain any one method for detection, prevention, avoidance and recovery for |

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| | | | | managing deadlocks in Operating Systems. |
| | | | CST206.5 | After the completion of the course the students will be able to Explain the memory management algorithms, security aspects and algorithms for file and storage management in Operating Systems. |
| 28 | S4 | HUT 200 PROFESSIONAL ETHICS | HUT200.1 | understand the core values that shape the ethical behaviour of a professional. |
| | | | HUT200.2 | adopt a good character and follow an ethical life. |
| | | | HUT200.3 | explain the role and responsibility in technological development by keeping personal ethics and legal ethics. |
| | | | HUT200.4 | solve moral and ethical problems through exploration and assessment by established experiments. |
| | | | HUT200.5 | apply the knowledge of human values and social values to contemporary ethical values and global issues. |
| 29 | S4 | MCN 202 CONSTITUTION OF INDIA | MCN202.1 | explain the background of the present constitution of India and features. |
| | | | MCN202.2 | utilize the fundamental rights and duties. |
| | | | MCN202.3 | understand the working of the union executive, parliament and judiciary. |
| | | | MCN202.4 | understand the working of the state executive, legislature and judiciary. |
| | | | MCN202.5 | utilize the special provisions and statutory institutions. |
| 30 | S4 | CSL 202 DIGITAL LAB | CSL202.1 | design and implement combinational logic circuits using Logic Gates |
| | | | CSL202.2 | design and implement sequential logic circuits using Integrated Circuits |

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| | | | CSL202.3 | simulate functioning of digital circuits using programs written in a Hardware Description Language |
| | | | CSL202.4 | function effectively as an individual and in a team to accomplish a given task of designing and implementing digital circuits. |
| | | | CSL202.5 | familiarize with different logic gates and IC's |
| 31 | S4 | CSL 204 OPERATING SYSTEMS LAB | CSL204.1 | illustrate the use of systems calls in Operating Systems |
| | | | CSL204.2 | implement Process Creation and Inter Process Communication in Operating Systems. |
| | | | CSL204.3 | implement Fist Come First Served, Shortest Job First, Round Robin and Priority- based CPU Scheduling Algorithms |
| | | | CSL204.4 | illustrate the performance of First In First Out, Least Recently Used and Least Frequently Used Page Replacement Algorithms |
| | | | CSL204.5 | implement modules for Deadlock Detection and Deadlock Avoidance in Operating Systems, implement storage management and disk scheduling algorithms |

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