



VIJAYA INSTITUTE OF TECHNOLOGY FOR WOMEN

An ISO 9001:2015 Certified Institute, Approved by AICTE, Affiliated to JNTU Kakinada, AP

Phone: 0866-2844444, Email: vijayatechfw@gmail.com Website: www.vitw.edu.in

College Code: NP, Enikepadu, Vijayawada-521108

Department of Computer Science and Engineering

List of Course Outcomes

Batch: 2020 (R20)

Year & Sem	Subject Code	Course Code	Course Name	At the end of the course, the student will be able to
I-I	R201102	C101	English	CO1:Ask and answer general questions on familiar topics and introduce oneself/others
				CO2:Recognize paragraph structure and be able to match beginnings/endings/headings with paragraphs
				CO3:To help and improve speaking skills through participation in activities such as role plays, discussions and structured talks /oral presentations
				CO4:Discuss specific topics in pairs or in groups for Functional English
				CO5:Understand social or transactional dialogues spoken by native speakers of English and identify the context, topic, and pieces of specific information
				CO6:Form sentences using proper grammatical structures and correct word forms
				CO1:Utilize mean value theorems to real life problems (L3)
				CO2:Solve the differential equations



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I-I	R201101	BS1101	Mathematics - I	of first order and their applications
				SCO3:olve the differential equations of second and higher order and applications.
				CO4:Solve the differential equations related to various engineering fields(L3).
				CO5:Familiarize with functions of several variables which is useful in optimization(L3)
				CO6: Apply double integration techniques in evaluating areas bounded by region and triple integral techniques over volume.
I-I		BS1106	Applied Chemistry	CO1:Analyze the different types of composite plastic materials and interpret the mechanism of conduction in conducting polymers.
				CO2:Utilize the theory of construction of electrodes, batteries and fuel cells in redesigning new engineering products and categorize the reasons for corrosion and study methods to control corrosion
				CO3:Summarize the preparation of semiconductors; analyze the applications of liquid crystals and superconductors.
				CO4:Synthesize Nanomaterials for modern advances of engineering technology.
				CO5:Analyze the principles of different analytical instruments and their applications, Design models for energy by different natural sources.



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				CO6: Obtain the knowledge of computational chemistry and molecular machines.
I-I		ES1112	Fundamentals of Computer Science	<p>CO1: Illustrate the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming.</p> <p>CO2: Recognize the Computer networks, types of networks and topologies.</p> <p>CO3: Summarize the concepts of Operating Systems and Databases.</p> <p>CO4: Recite the Advanced Computer Technologies like Distributed Computing & Wireless Networks.</p>
I-I		ES1103	Engineering Drawing	CO1: The student will learn how to visualize 2D & 3D objects.
I-II		BS1202	Mathematics – II	<p>CO1: Develop the use of matrix algebra techniques that is needed by engineers for practical applications and solve system of linear algebraic equations by Gauss elimination method.</p> <p>CO2: Find the inverse and powers of matrices by Cayley Hamilton theorem.</p> <p>CO3: Evaluate the approximate roots of polynomial and transcendental equations by different algorithms(L5)</p> <p>CO4: Solve system of linear algebraic equations using Gauss Jacobi, Gauss seidel (L3)</p> <p>CO5: Apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)</p> <p>CO6: Apply different algorithms for approximating the solution of Ordinary differential Equations with initial conditions to its analytical</p>



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				computations(L3)
I-II	BS1203	Mathematics – III	CO1: Interpret the physical meaning of different operators such as gradient, curl and divergence and Estimate the work done against a field, circulation and flux using vector calculus (L5)	
			CO2: Apply the Laplace transform for solving differential equations (L3)	
			CO3: Find or compute the Fourier series of periodic signals (L3)	
			CO4: Apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)	
			CO5: Identify solution methods for partial differential equations that model physical processes (L3)	
			CO6: Classify and Solve the different types of partial differential equations.	
I-II	BS1204	Applied Physics	CO1: Realize the need of coherent sources, engineering applications of interference, differences between interference and diffraction, the concept of polarization in the design of various optical instruments.	
			CO2: Enable to understand the concepts of LASER light sources, types of lasers, Engineering applications of lasers, Working principle of optical fibers, classification of optical fibers.	
			CO3: Interpret the dual nature of matter, significance of wave function.	
			CO4: Elucidate the classical and quantum free electron theories, K-P model, classification of materials, effective mass of electron.	



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				<p>CO5: Explain the dielectric constant and polarization, various types of polarization, Lorentz field and Clausius –Mosotti relation in dielectrics, classification of magnetic materials.</p> <p>CO6: Provide vivid comprehension on the classification of energy bands of semiconductors, Hall effect, Meissner effect, BCS theory & Josephson effect in superconductors.</p>
I-II		ES1201	Programming for Problem Solving using C	<p>CO1: To write algorithms and to draw flowcharts for solving problems</p> <p>CO2: To convert flowcharts/algorithms to C Programs, compile and debug programs · To use different operators, data types and write programs that use two-way/multi-way selection · To select the best loop construct for a given problem</p> <p>CO3: To design and implement programs to analyze the different pointer applications · To decompose a problem into functions and to develop modular reusable code · To apply File I/O operations</p>
I-II		ES1213	Digital Logic Design	<p>CO1: An ability to define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.</p> <p>CO2: An ability to understand the different switching algebra theorems and apply them for logic functions.</p> <p>CO3: An ability to define the Karnaugh map for a few variables and perform an algorithmic reduction of logic functions.</p> <p>CO4: Students will be able to design various logic gates starting from simple ordinary gates to complex programmable logic devices & arrays.</p>



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				CO5: Students will be able to design various sequential circuits starting from flip-flop to registers and counters.
II-I	R2021011	C201	Mathematics III	CO1: Interpret the physical meaning of different operators such as gradient, curl and divergence and Estimate the work done against a field, circulation and flux using vector calculus (L5)
				CO2: Apply the Laplace transform for solving differential equations (L3)
				CO3: Find or compute the Fourier series of periodic signals (L3)
				CO4: Apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)
				CO5: Identify solution methods for partial differential equations that model physical processes (L3)
				CO6: Classify and Solve the different types of partial differential equations.
II-I	R2021051	C202	Object Oriented Programming through C++	CO1: Classify object oriented programming and procedural programming
				CO2: Apply C++ features such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, file I/O, exception handling
				CO3: Build C++ classes using appropriate constructors and Destructors
				CO4: Build C++ classes using appropriate encapsulation and design principles
				CO5: Apply object oriented or non-object oriented techniques to solve bigger computing problems
				CO6: Build C++ classes using



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				appropriate constructors and Destructors
II-I	R2021052	C203	Operating Systems	CO1:Describe various generations of Operating System and functions of Operating System
				CO2:Describe the concept of program, process and thread and analyze various CPU Scheduling Algorithms and compare their performance
				CO3:Solve Inter Process Communication problems using Mathematical Equations by various methods
				CO4:Compare various Thrashing Techniques
				CO5:Compare various Memory Management Schemes especially paging and Segmentation in Operating System and apply various Page Replacement Techniques
				CO6:Outline File Systems in Operating System like UNIX/Linux and Windows
II-I	R2021053	C204	Software Engineering	CO1:Ability to transform an Object-Oriented Design into high quality, executable code
				CO2:Get familiar with Various process models
				CO3:Skills to design, implement, and execute test cases at the Unit and Integration level
				CO4:Get Familiar with various models
				CO5:Get Familiar with various and Debugging
				CO6:Compare conventional and agile software methods
II-I	R2021054	C205	Mathematical Foundations Of Computer Science	CO1:Comprehend mathematical Principles and logic
				CO2:Communicate effectively mathematical ideas/results verbally/in writing
				CO3:Apply the Knowledge of Number Theory in the areas of such



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				<p>cryptography</p> <p>CO4: Demonstrate knowledge of mathematical modelling and proficiency in using mathematical software</p> <p>CO5: Demonstrate skills in solving mathematical problems</p> <p>CO6: Manipulate and analyze data numerically and graphically using appropriate software</p>
II-II	R2022051	C212	Probability And Statistics	<p>CO1: Classify the concepts of data science and its importance (L4)</p> <p>CO2: Interpret the association of characteristics and through correlation and regression tools (L4)</p> <p>CO3: Make use of the concepts of probability and their applications (L3)</p> <p>CO4: Apply discrete and continuous probability distributions (L3)</p> <p>CO5: Infer the statistical inferential methods based on small and large sampling tests (L4)</p> <p>CO6: Design the components of a classical hypothesis test (L6)</p>
II-II	R2022052	C213	Database Management Systems	<p>CO1: Describe a relational database and object-oriented database</p> <p>CO2: Create, maintain and manipulate a relational database using SQL</p> <p>CO3: Describe ER model and normalization for database design</p> <p>CO4: Describe about SQL in Detail</p> <p>CO5: Examine issues in data storage and query processing and can formulate appropriate solutions</p> <p>CO6: Outline the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage</p>
II-II	R2022053	C214	Formal Languages	CO1: Classify machines by their power



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			And Automata Theory	to recognize languages. CO2:Summarize language classes & grammars relationship among them with the help of Chomsky hierarchy CO3:Employ finite state machines to solve problems in computing CO4:Discuss about Parse trees CO5:Illustrate deterministic and non-deterministic machines CO6:Quote the hierarchy of problems arising in the computer science
II-II	R2022054	C215	Java Programming	CO1:Able to realize the concept of Object Oriented Programming & Java Programming Constructs CO2:Able to describe the basic concepts of Java such as operators, classes, objects, inheritance, packages, Enumeration and various keywords CO3:Apply the concept of exception handling and Input/ Output operations CO4:Mention various types of arrays CO5:Able to design the applications of Java & Java applet CO6:Able to Analyze & Design the concept of Event Handling and Abstract Window Toolkit
II-II	R2022055	C216	Managerial Economics And Financial Accountancy	CO1:The Learner is equipped with the knowledge of estimating the Demand and demand elasticity for a product CO2:The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs CO3:The pupil is also ready to understand the nature of different markets and Price Output determination under various market conditions and also to have the knowledge of different Business Units CO4:Discuss about various phases of business cycle CO5:The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis CO6:The Learner can able to evaluate various investment project proposals



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				with the help of capital budgeting techniques for decision making UNIT I Introduction to Managerial Economics and demand Analysis: Definition of Managerial Economy
III-I	R2031051	C301	Computer Networks	CO1: Demonstrate different network models for networking links OSI, TCP/IP, B-ISDN, N-BISDN and get knowledge about various communication techniques, methods and protocol standards.
				CO2: Discuss different transmission media and different switching networks.
				CO3: Analyze data link layer services, functions and protocols like HDLC and PPP.
				CO4: ALOHA, Carrier sense multiple access (CSMA), CSMA with Collision Detection, CSMA with Collision.
				CO5: Compare and Classify medium access control protocols like ALOHA, CSMA, CSMA/CD, CSMA/CA, Polling, Token passing, FDMA, TDMA, CDMA protocols
				CO6: Determine application layer services and client server protocols working with the client server paradigms like WWW, HTTP, FTP, e-mail and SNMP etc.
III-I	R2031052	C302	Design and Analysis of Algorithms	CO1: Analyze the performance of a given algorithm, denote its time complexity using the asymptotic notation for recursive and non-recursive algorithms
				CO2: List and describe various algorithmic approaches and Solve problems using divide and conquer & greedy Method
				CO3: Synthesize efficient algorithms dynamic programming approaches to solve in common engineering design situations.
				CO4: The general method, multistage graphs, All pairs-shortest paths, optimal Binary search trees



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				CO5:Organize important algorithmic design paradigms and methods of analysis: backtracking, branch and bound algorithmic approaches
				CO6:Demonstrate NP- Completeness theory ,lower bound theory and String Matching
III-I	R2031053	C303	Data Warehousing and Data Mining	CO1:Illustrate the importance of Data Warehousing, Data Mining and its functionalities and Design schema for real time data warehousing applications.
				CO2: Demonstrate on various Data Pre-processing Techniques viz. data cleaning, data integration, data transformation and data reduction and Process raw data to make it suitable for various data mining algorithms.
				CO3: Choose appropriate classification technique to perform classification, model building and evaluation.
				CO4:General Approach to solving a classification problem, Decision Tree Induction: Attribute Selection Measures, Tree Pruning
				CO5:Make use of association rule mining techniques viz. Apriori and FP Growth algorithms and analyze on frequent item sets generation.
				CO6:Identify and apply various clustering algorithm (with open source tools), interpret, evaluate and report the result.
III-I	R203105A		Artificial Intelligence	CO1:Understand the fundamental concepts in Artificial Intelligence
				CO2:Analyze the applications of search strategies and problem reductions
				CO3:Apply the mathematical logic concepts.
				CO4:propositional calculus, propositional logic, natural deduction system, axiomatic system,
				CO5:Develop the Knowledge



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				representations in Artificial Intelligence.
				CO6: Explain the Fuzzy logic systems.
III-I	R203104Q		Digital Logic Design	CO1: Use number systems and complements
				CO2: Identifying importance of canonical forms
				CO3: Minimize functions using any type of minimizing algorithms
				CO4: Multiplexers and demultiplexures
				CO5: Analyse the design procedures of combinational and sequential Circuits
				CO6: Design the FSM using arithmetic state machine charts and perform simple projects with few flip-flops
III-II	R2032051		Machine Learning	CO1: Explain the fundamental usage of the concept Machine Learning system
				CO2: Demonstrate on various regression Technique
				CO3: Analyze the Ensemble Learning Methods
				CO4: Supervised Learning, Distance based Methods, Nearest Neighbours, Decision Trees, Naive Bayes
				CO5: Illustrate the Clustering Techniques and Dimensionality Reduction Models in Machine Learning.
				CO6: Discuss the Neural Network Models and Fundamentals concepts of Deep Learning
III-II	R2032052		Compiler Design	CO1: Demonstrate phases in the design of compiler
				CO2: Organize Syntax Analysis, Top Down and LL(1) grammars
				CO3: Design Bottom Up Parsing and Construction of LR parsers
				CO4: Intermediate Code Generation, Syntax Trees, Backpatching, Intermediate Code for Procedures.
				CO5: Analyze synthesized, inherited attributes and syntax directed translation schemes



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				CO6:Determine algorithms to generate code for a target machine
III-II	R2032053		Cryptography and Network Security	CO1:Explain different security threats and countermeasures and foundation course of cryptography mathematics.
				CO2:Classify the basic principles of symmetric key algorithms and operations of some symmetric key algorithms and asymmetric key cryptography
				CO3:Revise the basic principles of Public key algorithms and Working operations of some Asymmetric key algorithms such as RSA, ECC and some more
				CO4:Symmetric Encryption, Modern Symmetric Key Ciphers, Data Encryption Standard
				CO5:Design applications of hash algorithms, digital signatures and key management techniques
				CO6:Determine the knowledge of Application layer, Transport layer and Network layer security Protocols such as PGP, S/MIME, SSL,TSL, and IPsec
III-II	R203205B		Big Data Analytics	CO1:Illustrate big data challenges in different domains including social media, transportation, finance and medicine
				CO2:Use various techniques for mining data stream
				CO3:Design and develop Hadoop
				CO4:Design of HDFS, Hadoop Streaming, Task execution, Map Reduce Types
				CO5:Identify the characteristics of datasets and compare the trivial data and big data for various applications
				CO6:Explore the various search methods and visualization techniques
III-II	R203204Q		Data Communications	CO1:Know the categories and functions of various data communication networks
				CO2:Design and Analyse various error detection techniques
				CO3:discuss about connection less



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				protocols
				CO4:Demonstrate the mechanism of routing the data in network layer
				CO5:Domain Name System
				CO6:Know the significance of various flow control and condition control mechanism
IV-I		PE	Cloud Computing	CO1: Illustrate the key dimensions of the challenge of Cloud Computing
				CO2:Classify the Levels of Virtualization and mechanism of tools.
				CO3:Analyze Cloud infrastructure including Google Cloud and Amazon Cloud.
				CO4:Create Combinatorial Auctions for cloud resource and design scheduling algorithms for computing cloud
				CO5:Policies and Mechanisms for Resource Management, Applications of Control Theory to Task Scheduling on a Cloud
				CO6:Assess control storage systems and cloud security, the risks involved its impact and develop cloud application
IV-I		PE	Deep Learning Techniques	CO1: Demonstrate the fundamental concepts learning techniques of Artificial Intelligence, Machine Learning and Deep Learning.
				CO2: Discuss the Neural Network training, various random models.
				CO3: Explain the Techniques of Keras, Tensor Flow, Theano and CNTK
				CO4: Classify the Concepts of CNN and RNN
				CO5: Able to understand Recurrent Neural Networks: Introduction to RNN, RNN Code, learn how to use PyTorch Tensors: Deep Learning with PyTorch, CNN in PyTorch
				CO6: Implement Interactive Applications of Deep Learning.
IV-I		PE	Wireless Network	CO1: Explain the Threats in networks



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			Security	<p>and provide Authentication to real time problems.</p> <p>CO2: Identify and investigate in-depth both early and contemporary threats to wireless networks security</p> <p>CO3: Ability to analyze and determine for any organization the database security requirements and appropriate solutions</p> <p>CO4: Able to understand Cellular Digital Packet Data (CDPD), CDPD Architecture, CDPD Security.</p> <p>CO5: Determined IP Security Issues and solve real time problems.</p> <p>CO6: Build wireless Development Strategies in real time issues</p>
IV-I		OE-III	Environmental Management	<p>CO1: Plan and design the water and wastewater systems</p> <p>CO2: Identify the source of emissions and select proper control systems</p> <p>CO3: Design & estimation of water supply system for a city</p> <p>CO4: Learn about atmosphere, structure and composition of atmosphere, natural greenhouse effect, atmospheric pollution and its causes like smog, acid rain.</p> <p>CO5: To get knowledge about various environmental aspects</p> <p>CO6: Selection of suitable treatment flow for raw water treatments</p>
IV-I		OE-IV	Soft Computing Techniques	<p>CO1: Develop intelligent systems leveraging the paradigm of soft computing techniques.</p> <p>CO2: Implement, evaluate and compare solutions by various soft computing approaches for finding the optimal solutions.</p> <p>CO3: Recognize the feasibility of applying a soft computing methodology for a particular problem</p> <p>CO4: Able to learn basic concept of Genetic algorithm and detail algorithmic steps, Adjustment of free</p>



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				parameters, Solution of typical control problems using genetic algorithm
				CO5: Design the methodology to solve optimization problems using fuzzy logic, genetic algorithms and neural networks.
				CO6: Design hybrid system to revise the principles of soft computing in various application
IV-I	HS	Universal Human Values 2: Understanding Harmony		CO1: students are expected to become more aware of themselves, and their surroundings (family, society, nature); they would become more responsible in life.
				CO2: Able to handle problems with sustainable solutions, while keeping human relationships and human nature in mind.
				CO3: They would have better critical ability. They would also become sensitive to their commitment towards what they have understood (human values, human relationship and human society).
				CO4: It is hoped that they would be able to apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.
				CO5: This is only an introductory foundational input. It would be desirable to follow it up by a) faculty-student or mentor-mentee programs throughout their time with the institution
				CO6: This is only an introductory foundational input. It would be desirable to follow it up by Higher level courses on human values in every aspect of living. E.g. as a professional.



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