



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 Information Technology

List of Course Outcomes

Batch: 2019

Year & Sem	Subject Code	Course Code	Course Name	At the end of the course, the student will be able to
I-I	R19HS11	HS1101	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.
I-I	R19BS11	BS1101	Mathematics - I	CO1: Utilize mean value theorems to real life problems(L3)
				CO2: Solve the differential equations of first order and their applications
				CO3: Solve 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	R19BS11	BS1106	Applied Chemistry	CO1: Outline the properties of polymers and various additives added and different methods of forming plastic materials. Explain the preparation, properties and applications of some plastic materials. Interpret the mechanism of conduction in conducting polymers. Discuss natural and synthetic rubbers and their applications.
				CO2: Explain the theory of construction of battery and fuel cells and can categorize the reasons for corrosion and study some methods



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				of corrosion control.
				CO3: Analyze the liquid crystals, superconductors and the preparation of semiconductors.
				CO4: Analyze the importance of materials like Nanomaterials and fullerenes and their uses.
				CO5: Obtain the knowledge of computational chemistry and analyze the importance of molecular machines.
				CO6: Explain the different applications of analytical instruments and design sources of energy by different natural sources and analyze the principles of different analytical instruments.
I-I	R19ES11	ES1112	Fundamentals of Computer Science	CO1: Illustrate the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming.
				CO2: Problem solving and programming.
				CO3: Recognize the Computer networks, types of networks and topologies.
				CO4: Evolution of operating systems.
				CO5: Summarize the concepts of Operating Systems and Databases.
				CO6: Recite the Advanced Computer Technologies like Distributed Computing & Wireless Networks.
I-I	R19ES11	ES1103	Engineering Drawing	CO1: The student will learn how to visualize 2D & 3D objects.
I-I	R19MC1	MC1101	Environmental Science	CO1: Basic concepts of environmental studies.
				CO2: Define natural and associated problems.
				CO3: Learn about concepts of biodiversity.
				CO4: Conservation of biodiversity
				CO5: Able to learn about environmental pollutions and life studies
				CO6: Describe social issues and the environment
I-II	R19BS1202	BS1202	Mathematics – II	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.
				CO2; Find the inverse and powers of matrices by Cayley Hamilton theorem.
				CO3: Evaluate the approximate roots of polynomial and transcendental equations by different algorithms(L5)
				CO4: Solve system of linear algebraic equations using Gauss Jacobi, Gauss seidel (L3)



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				CO5: Apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)
				CO6: Apply different algorithms for approximating the solution of Ordinary differential Equations with initial conditions to its analytical computations(L3)
I-II	R19BS1203	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	R19BS1204	BS1204	Applied Physics	CO1: Elucidate the need of coherence and the conditions for sustained interference. Analyse the differences between interference and diffraction with applications. Illustrate the resolving power of various optical instruments.
				CO2: Explain the fundamentals of quantum mechanics. analyse the Physical significance of wave function. Apply Schrodinger wave equation for energy values of a free particle.
				CO3: Explain the various electron theories and calculate the Fermi energy.
				CO4: Interpret the effects of temperature on Fermi-Dirac distribution function. summarise various types of solids based on Band Theory.
				CO5: Classify the energy bands of semiconductors. Outline the properties of n-type & p-type semiconductors. Identify the types of semiconductors using Hall effect.
				CO6: Explain the concepts of polarisation and summarise various types of polarisation of dielectrics. Interpret Lorentz field and Clausius-Mossotti relation in dielectrics. Classify the magnetic materials based on susceptibility and their temperature dependence. Explain the applications of dielectric and magnetic materials.
				CO1: To write algorithms and to draw



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I-II	R19ES1201	ES1201	Programming for Problem Solving using C	flowcharts for solving problems
				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
				CO3: · To decompose a problem into functions and to develop modular reusable code.
				CO4: To solve array applications.
				CO5: To design and implement programs to analyze the different pointer applications.
				CO6: To apply file, I/O operations.
I-II	R19ES1213	ES1213	Digital Logic Design	CO1: An ability to define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.
				CO2: An ability to understand the different switching algebra theorems and apply them for logic functions.
				CO3: An ability to define the Karnaugh map for a few variables and perform an algorithmic reduction of logic functions.
				CO4: Students will be able to design various logic gates starting from simple ordinary gates to complex programmable logic devices & arrays.
				CO5: Students will be able to design various sequential circuits starting from flip-flop to registers and counters.
				CO6: Study about registers and counters.
II-I	R1921121	IT2101	Discrete Mathematical Structures	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 cryptography
				CO4: Demonstrate knowledge of mathematical modeling and proficiency in using mathematical software
				CO5: Demonstrate skills in solving mathematical problems
				CO6: Manipulate and analyze data numerically and graphically using appropriate software
				CO1: Transform an Object-Oriented Design into high quality, executable code
				CO2: Skills to design, implement, and execute test cases at the Unit and Integration level



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II-I	R1921122	IT2102	Principles of Software Engineering	CO3: Compare conventional and agile software methods
				CO4: Design behavioural models.
				CO5: Skills to design, implement, and execute test cases at the Unit and Integration level
				CO6: Design different types of testing.
II-I	R1921053	ES2101	Python Programming	CO1: Develop essential programming skills in computer programming concepts like data types, containers
				CO2: Apply the basics of programming in the Python language
				CO3: Solve coding tasks related conditional execution, loops
				CO4: Solve coding tasks related to the fundamental notions and techniques used in object-oriented programming.
				CO5: Solve file operations and design with classes
				CO6: Apply errors and exceptions of Programs.
II-I	R1921054	IT2103	Data Structures	CO1: Summarize the properties, interfaces, and behaviors of basic abstract data types
				CO2: Discuss the computational efficiency of the principal algorithms for sorting & searching
				CO3: linked structures, stacks, queues, trees in writing programs
				CO4: Discuss Use arrays, records, and expressions
				CO5: Demonstrate different methods for traversing trees
				CO6: Discuss the representations of graphs and algorithms.
II-I	R1921056	IT2104	Computer Organization	CO1: Develop a detailed understanding of computer systems
				CO2: Cite different number systems, binary addition and subtraction, standard, floating-point, and micro-operations
				CO3: Develop a detailed understanding of architecture and functionality of central processing unit
				CO4: Derived microprogrammed control memory
				CO5: Exemplify in a better way the I/O and memory organization
				CO6: Illustrate the concepts of parallel



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				processing, pipelining and inter processor communication
II-I	R1921123	IT2105	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 encapsulation and design principles CO4: Build C++ classes using inheritance CO5: Apply object oriented or non-object-oriented techniques to solve bigger computing problems. CO6: Use generic programming with templates.
II-II	R1922051	BS2201	Probability and Statistics	CO1: Classify the concepts of data science and its importance (L4) or (L2) CO2: Interpret the association of characteristics and through correlation and regression tools (L4) CO3: Make use of the concepts of probability and their applications (L3) CO4: Apply discrete and continuous probability distributions (L3) CO5: Design the components of a classical hypothesis test (L6) CO6: Infer the statistical inferential methods based on small and large sampling tests (L4)
II-II	R1922052	IT2201	Java Programming	CO1: Discuss and understand java programming constructs, Control structures CO2: Illustrate and experiment Object Oriented Concepts like classes, objects CO3: Apply Object Oriented Constructs such as Inheritance, interfaces, and exception handling CO4: Construct applications using multithreading and I/O CO5: Develop Dynamic User Interfaces using applets and Event Handling in java CO6: Develop Code Snippets using Abstract Window Toolkit and Swings
II-II	R1922121	IT2202	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: Describe the concept of memory management. CO4: Compare various Memory Management



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				<p>Schemes especially paging and Segmentation in Operating System and apply various Page Replacement Techniques</p> <p>CO5: Able to know deadlocks and file systems.</p> <p>CO6: Outline File Systems in Operating System like UNIX/Linux and Windows</p>
II-II	R1922054	IT2203	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: Examine issues in data storage and query processing and can formulate appropriate solutions</p> <p>CO5: Outline the normalization and 1NF, 2NF, 3NF and 4NF.</p> <p>CO6: Describe transaction and indexing techniques.</p>
II-II	R1922122	IT2204	Theory of Computation	<p>CO1: Classify machines by their power to recognize languages</p> <p>CO2: Describe regular expressions and its rules.</p> <p>CO3: Employ finite state machines to solve problems in computing</p> <p>CO4: Attain the knowledge of language classes & grammars relationship among them with the help of Chomsky hierarchy</p> <p>CO5: Illustrate deterministic and non-deterministic machines</p> <p>CO6: Able to know about turning machine.</p>
III-I	R1931121	IT3101	Advanced Data Structures	<p>CO1: Illustrate several sub-quadratic sorting algorithms.</p> <p>CO2: Demonstrate recursive methods</p> <p>CO3: Apply advanced data structures such as balanced search trees, hash tables, priority queues and the disjoint set union/find data structure</p> <p>CO4: Describe Red Black Trees and AVL.</p> <p>CO5: Define M – way search tress and B+ tree</p> <p>CO6: Digital search structures, binary tries and multi-way tries.</p>
III-I	R1931125	IT3102	Computer Networks	<p>CO1: Illustrate the OSI and TCP/IP reference model</p> <p>CO2: Analyze MAC layer protocols and LAN technologies</p> <p>CO3: Design Data link layer and its types.</p> <p>CO4: Describe CRC and Checksum.</p>



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				CO5: Able to know about ALOHA and CSMA/CD.
				CO6: Define Ethernet protocols and V-Lans.
III-I	R1931123	IT3103	Compiler Design	CO1: Design, develop, and implement a compiler for any language
				CO2: Use of syntax analysis and LR parsing.
				CO3: Design and implement SDD and applications.
				CO4: Design intermediate code generation.
				CO5: Apply algorithms to generate machine code and Run time environments.
				CO6: Able to learn about machine independent optimizations.
III-I	R1931054	IT3104	Artificial Intelligence	CO1: Outline problems that are amenable to solution by AI methods, and which AI methods may be suited to solving a given problem
				CO2: Apply the language/framework of different AI methods for a given problem
				CO3: Implement basic AI algorithms
				CO4: Design and carry out an empirical evaluation of different algorithms on problem formalization and state the conclusions that the evaluation supports
				CO5: To get Knowledge Representation and CYC theory.
				CO6: Design a system applications and fuzzy model.
III-I	R1931	PE3101	Software Testing Methodologies	CO1: Identify and understand various software testing problems, apply software testing knowledge and engineering methods and solve these problems by designing and selecting software test models, criteria, strategies, and methods
				CO2: Design and conduct a software test process for a software project
				CO3: Analyze the needs of software test automation
				CO4: Use various communication methods and skills to communicate with their teammates to conduct their practice-oriented software testing projects
				CO5: Basic understanding and knowledge of contemporary issues in software testing, such as component-based, web based and object-oriented software testing problems
				CO6: Write test cases for given software to test it before delivery to the customer and write test scripts for both desktop and web-based



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				applications
III-I	R1931124	IT3105	Design and Analysis of Algorithms	CO1: Describe asymptotic notation used for denoting performance of 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: Dynamic programming approaches to solve in the traveling salesperson problem
				CO5: Organize important algorithmic design paradigms and methods of analysis: backtracking, branch and bound algorithmic approaches.
				CO6: Demonstrate an understanding of NP-Completeness theory and lower bound theory
III-II	R1932121	IT3201	Data Warehousing and Data Mining	CO1: Design a Data warehouse system and perform business analysis with OLAP tools
				CO2: Apply suitable pre-processing and visualization techniques for data analysis
				CO3: Apply frequent pattern and association rule mining techniques for data analysis
				CO4: Drive the model building and pattern evaluations.
				CO5: Apply appropriate classification techniques for data analysis.
				CO6: Apply appropriate clustering techniques for data analysis.
III-II	R193204J	OE3201	Principles of Communication	CO1: Analyze the performance of analog modulation schemes in time and frequency domains.
				CO2: Analyze the performance of angle modulated signals.
				CO3: Characterize analog signals in time domain as random processes and noise.
				CO4: Characterize the influence of channel on analog modulated signals
				CO5: Determine the performance of analog communication systems in terms of SNR
				CO6: Analyze pulse amplitude modulation, pulse position modulation, pulse code modulation and TDM systems.
				CO1: Illustrate the basic concepts of HTML and CSS & apply those concepts to design static web pages
				CO2: Identify and understand various concepts



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III-II	R1932122	IT3202	Web Technologies	related to dynamic web pages and validate them using JavaScript
				CO3: Outline the concepts of Extensible markup language & AJAX
				CO4: Describe the working with XML.
				CO5: Develop web Applications using Scripting Languages & Frameworks.
				CO6: Create and deploy secure, usable database driven web applications using PHP and RUBY.
III-II	R1932054	HS3201	Managerial Economics and Financial Accountancy	CO1: The Learner is equipped with the knowledge of estimating the Demand and demand elasticities 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: Able to learn about firm and pricing policies.
				CO5: The Learner is able to prepare Financial Statements and the usage of various accounting tools for Analysis.
IV-I	R1941051	IT4101	Cryptography and Network Security	CO1: Identify information security goals, classical encryption techniques and acquire fundamental knowledge on the concepts of finite fields and number theory
				CO2: Compare and apply different encryption and decryption techniques to solve problems related to confidentiality and authentication
				CO3: Apply the knowledge of cryptographic checksums and evaluate the performance of different message digest algorithms for verifying the integrity of varying message sizes
				CO4: Apply different digital signature algorithms to achieve authentication and create secure applications
				CO5: Apply network security basics, analyze different attacks on networks and evaluate the performance of firewalls and security protocols like SSL, IPsec, and PGP
				CO6: Apply the knowledge of cryptographic utilities and authentication mechanisms to



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				design secure applications
IV-I	R1941053	IT4102	Machine Learning	CO1: Identify machine learning techniques suitable for a given problem
				CO2: Solve the problems using various machine learning techniques
				CO3: Apply Dimensionality reduction techniques
				CO4: Design application using machine learning techniques
				CO5: Describe ANN and SVM.
				CO6: Bayesian and instance-based learning.
IV-I	R1941121	IT4103	Advanced Computer Networks	CO1: Illustrate reference models with layers, protocols and interfaces
				CO2: Describe the routing algorithms, Sub netting and addressing of IP V4and IPV6
				CO3: Describe and Analysis of basic protocols of computer networks, and how they can be used to assist in network design and implementation
				CO4: Describe the concepts Wireless LANS, WIMAX, IEEE 802.11, Cellular telephony and Satellite networks
				CO5: Explain SCTP and QoS.
				CO6: Able to know about WWW, HTTP, SNMP and internet.
IV-I	R194104K	OE4101	Embedded Systems	CO1: Understand the basic concepts of an embedded system and able to know an embedded system design approach to perform a specific function.
				CO2: The hardware components required for an embedded system and the design approach of an embedded hardware.
				CO3: The various embedded firmware design approaches on embedded environment.
				CO4: Understand how to integrate hardware and firmware of an embedded system using real time operating system.
				CO5: Able to know about real time operating and co-design systems.
				CO6: Describe Embedded System tools, implementation and testing.
IV-I	R194105G	PE4101	Cloud Computing	CO1: Interpret the key dimensions of the challenge of Cloud Computing
				CO2: Examine the economics, financial, and technological implications for selecting cloud computing for own organization
				CO3: Assessing the financial, technological, and organizational capacity of employer's for



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				actively initiating and installing cloud-based applications
				CO4: Evaluate own organizations' needs for capacity building and training in cloud computing-related IT areas
				CO5: Illustrate Virtualization for Data-Center Automation
				CO6: Illustrate AWS and EC2, S3.
IV-I	R194112F	PE4102	Internet of Things	CO1: Demonstrate knowledge and understanding of the security and ethical issues of the Internet of Things
				CO2: Conceptually identify vulnerabilities, including recent attacks, involving the Internet of Things
				CO3: Develop critical thinking skills
				CO4: Compare and contrast the threat environment based on industry and/or device type
				CO5: Define the concepts of data link layer.
				CO6: Describe data acquiring and IoT/M2M.
IV-I	R1941123		Project - I	Defining the problem and know about the Abstract.
IV-II	R1942051	HS4201	Management and Organizational Behaviour	CO1: After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational structure
				CO2: Will familiarize with the concepts of functional management that is HRM and Marketing of new product developments
				CO3: The learner is able to think in strategically through contemporary management practices
				CO4: Define SWOT, Business strategies.
				CO5: The learner can develop positive attitude through personality development and can equip with motivational theories
				CO6: The student can attain the group performance and grievance handling in managing the organizational culture
IV-II	R194201M	OE4201	Disaster Management	CO1: Affirm the usefulness of integrating management principles in disaster mitigation work
				CO2: Distinguish between the different approaches needed to manage pre-during and post-disaster periods.
				CO3: Explain the process of risk management
				CO4: Able to learn about vulnerability.



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				CO5: Relate to risk transfer.
				CO6: Illustrate multi sectional issues.
IV-II	R194212B	PE4201	Network Programming	CO1: Demonstrate functional layering of network software architectures
				CO2: Write your own socket-based network application programs
				CO3: Apply software tools for network troubleshooting
				CO4: Different kernel levels and API.
				CO5: Able to know about different memory and network IPC functions.
				CO6: Describe TCP and UDP functions, client and server applications.
IV-II	R1942121		Project – II	Engineering is the practice of using natural science and the engineering design process to solve technical problems.