



# 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](mailto:vijayatechfw@gmail.com) Website: [www.vitw.edu.in](http://www.vitw.edu.in)

College Code: NP, Enikepadu, Vijayawada-521108

## Department Of Information Technology

### List of Course Outcomes

Batch: 2016(R16)

Year & Sem	Subject Code	Course Code	Course Name	At The End of The Course, The Student Will Be Able To
I-I	R161101	C1101	English - I	CO1: The lesson motivates the readers to develop their knowledge different fields and serve the society accordingly.
				CO2: The lesson motivates the public to adopt road safety measures.
				CO3: The lesson creates an awareness in the readers that mass production is ultimately detrimental to biological survival
				CO4: The lesson helps to choose a source of energy suitable for rural India.
				CO5: The lesson creates an awareness in the reader as to the usefulness of animals for the human society.
				CO6: The lesson helps in identifying safety measures against different varieties of accidents at home and in the workplace.
I-I	R161102	C1102	Mathematics - I	CO1: Solve linear differential equations of first order and first degree and their applications
				CO2: Solve linear differential equations of second and higher order and their applications to various engineering fields.
				CO3: Determine Laplace transform and inverse Laplace transform of various functions. Apply the Laplace transforms for Solving Linear Differential Equations
				CO4: Calculate total derivative, Jacobian and minima of functions of two variables
				CO5: Formation of Partial differential Equations and solution of first order linear and non-linear equations.
				CO6: Solve Linear Partial differential Equations of higher order and classification of second order Partial differential Equations.
				CO1: Calculate a root of algebraic and transcendental equations.
				CO2: Explain relation between the finite difference operators. compute interpolating polynomial for the given data.



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I-I	R161109	C1103	Mathematics – II (Mathematical Methods)	CO3: Solve ordinary differential equations numerically using Euler's and RK method.
				CO4: Find Fourier series for certain functions.
				CO5: Identify/classify and solve the different types of partial differential equations.
				CO6: Find Fourier transforms for certain functions.
I-I	R161104	C1104	Applied Physics	CO1: Impart the knowledge of the concept of coherence and superposition and apply the knowledge to understand the utility of interference in our daily life.
				CO2: Analyse the intensity variation of light due to diffraction and apply the knowledge to understand the working of optical instrumentation with high resolution.
				CO3: Impart the knowledge of the physical optics phenomena like polarisation. Analyse the concept of population inversion and different types of emission. Comprehend the role of LASERS in the scenario of human development.
				CO4: Study the theoretical concepts underlying the EM fields and comprehend its role in the advancement of science and technology.
				CO5: Conceive the concepts related to quantum mechanics and apply the knowledge to different problems. Provide a clear understanding about the different electron theories and their defects.
				CO6: Discern the classification of crystalline solids and comprehend the relevance of Einstein's equations in the drift and diffusion mechanisms in the conduction of semiconductors, Hall effect and its applications.
I-I	R161107	C1105	Computer Programming	CO1: Understand the basic terminology used in computer programming
				CO2: Write, compile and debug programs in C language.
				CO3: Use different data types in a computer program
				CO4: Design programs involving decision structures, loops and functions.
				CO5: Explain the difference between call by value and call by reference
				CO6: Understand the dynamics of memory by the use of pointers.
				CO1: Construct the polygons, curves and various types of scales.



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I-I	R161112	C1106	Engineering Drawing	CO2: Project the points and lines parallel to one other.
				CO3: Draw the projections of the lines inclined to both of the planes.
				CO4: Draw the projections of the line.
				CO5: Draw the projections of the various types of solids in different positions.
				CO6: Represent and convert the isometric view to orthography view.
I-II	R161201	C1201	English – II	CO1: The lesson underscores that the ultimate aim of Education is to enhance wisdom.
				CO2: The lesson enables the students to promote peaceful co-existence and universal harmony among people and society.
				CO3: The lesson imparts the students to manage different cultural shocks due to globalization.
				CO4: The theme projects society's need to reexamine its traditions when they are outdated.
				CO5: The lesson offers several inputs to protect environment for the sustainability of the future generations.
				CO6: Pupil get inspired by eminent personalities who toiled for the present-day advancement of software development.
I-II	R161203	C1202	Mathematics - III	CO1: Find rank and solve simultaneous linear equations numerically using various matrix methods
				CO2: Determine Eigen values and Eigen vectors of a given matrix and solve Simultaneous linear equations.
				CO3: Determine double integral over a region and triple integral over a volume.
				CO4: Evaluation of Integrals by using special functions.
				CO5: Calculate gradient of a scalar function, divergence and curl of a vector function.
				CO6: Determine line, surface and volume integrals. Apply Green, Stokes and Gauss divergence theorems to calculate line, surface and volume integrals
				CO1: The advantages and limitations of plastic materials and their use in design would be understood.
				CO2: Fuels which are used commonly and their economics, advantages and limitations are discussed.



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I-II	R161211	C1203	Applied Chemistry	CO3: Reasons for corrosion and some methods of corrosion control would be understood.
				CO4: The students would be now aware of materials like nano-materials and fullerenes and their uses. Similarly liquid crystals and superconductors are understood.
				CO5: The importance of green synthesis is well understood and how they are different from conventional methods is also explained.
				CO6: Conductance phenomenon is better understood. The students are exposed to some of the alternative fuels and their advantages and limitations.
I-II	R161215	C1204	Object Oriented Programming through C++	CO1: Understand the basic terminology used in computer programming
				CO2: Design classes, objects and constructors
				CO3: Basic concepts of operator overloading, inheritance
				CO4: Design applications of polymorphism and virtual functions
				CO5: Design applications of generic programming with templates.
				CO6: Overview of standard templates programming.
I-II	R161212	C1205	Environmental Studies	CO1: The natural resources and their importance for the sustenance of the life and recognize the need to conserve the natural resources
				CO2: The concepts of the ecosystem and its function in the environment. The need for protecting the producers and consumers in various ecosystems and their role in the food web
				CO3: The biodiversity of India and the threats to biodiversity, and conservation practices to protect the biodiversity
				CO4: Various attributes of the pollution and their impacts and measures to reduce or control the pollution along with waste management practices
				CO5: Social issues both rural and urban environment and the possible means to combat the Challenges
				CO6: The environmental legislations of India and the first global initiatives towards sustainable development.



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I-II	R161216	C1206	Engineering Mechanics	CO1: Calculate the resultant of various force systems.
				CO2: The conditions of static equilibrium to various force systems.
				CO3: Calculate the centroid of composite figures and centre of gravity of composite bodies
				CO4: Calculate area moment of inertia of composite figures and mass moment of inertia of composite bodies.
				CO5: Calculate velocity, acceleration in rectilinear, curve linear motions of rigid body
				CO6: Calculate work energy, impulse momentum in translation.
II-I	R1621051	C2101	Statistics with R Programming	CO1: List motivation for learning a programming language
				CO2: Access online resources for R and import new function packages into the R workspace.
				CO3: Import, review, manipulate and summarize data-sets in R
				CO4: Explore data-sets to create testable hypotheses and identify appropriate statistical tests.
				CO5: Perform appropriate statistical tests using R Create and edit visualizations.
				CO6: Able to know linear models and regression.
II-I	R1621052	C2102	Mathematical Foundations of Computer Science	CO1: Comprehend mathematical Laws 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 skills in solving mathematical problems
				CO5: Manipulate and analyze data numerically and graphically using appropriate software
				CO6: Demonstrate knowledge of mathematical modelling and proficiency in using mathematical software
				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.



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II-I	R1621053	C2103	Digital Logic Design	CO3: An ability to define the Karnaugh map for a few variables and perform an algorithmic reduction of logic functions.
				CO4: An ability to define the other minimization methods for any number of variables Variable Entered Mapping (VEM) and Quine-McCluskey (QM) Techniques and perform an algorithmic reduction of logic functions.
				CO5: Design Moore and Mealy models
				CO6: Illustrate various registers and counters.
II-I	R1621054	C2104	Python Programming	CO1: Making Software easily right out of the box.
				CO2: Experience with an interpreted Language.
				CO3: To build software for real needs.
				CO4: Prior Introduction to testing software
				CO5: Apply OOPS concepts of Python and Exceptions.
II-I	R1621055	C2105	Data Structures through C++	CO1 Distinguish between procedures and object-oriented programming. Programming
				CO2: Apply advanced data structure strategies for exploring complex data structures. .
				CO3: Compare and contrast various data structures and design techniques in the area of Performance.
				CO4: Implement data structure algorithms through C++. Incorporate data structures into the applications such as binary search trees, AVL and B Trees.
				CO5: Implement all data structures like stacks, queues, trees, lists and graphs and compare their Performance and trade offs
				CO6: Explain sorting techniques.
II-I	R1621121	C2106	Software Engineering	CO1: Define and develop a software project from requirement gathering to implementation.
				CO2: Obtain knowledge about principles and practices of software engineering.
				CO3: Focus on the fundamentals of modelling a software project.
				CO4: Explain coding techniques and testing tools.
				CO5: Design and software quality management.
CO6: Analysing of software maintenance process models				



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II-II	R1622121	C2201	Computer Graphics	CO1: Know and be able to describe the general software architecture of programs that use 3D computer graphics.
				CO2: Know and be able to discuss hardware system architecture for computer graphics. This Includes, but is not limited to: graphics pipeline, frame buffers, and graphic accelerators /co-processors.
				CO3: Know and be able to select among models for lighting/shading: Colour, ambient light; distant and light with sources; Phong reflection model; and shading (flat, smooth, Gour and, Phong).
				CO4: Design adding shadows of objects, rendering models.
				CO5: Designing of Fractals and Self similarity.
				CO6: Overview of ray tracing.
II-II	R1622052	C2202	Java Programming	CO1: Understand Java programming concepts and utilize Java Graphical User Interface in Program writing
				CO2: Write, compile, execute and troubleshoot Java programming for networking concepts.
				CO3: Build Java Application for distributed environment
				CO4: Design and develop multi-tier applications.
				CO5: Identify and Analyze Enterprise applications.
				CO6: Explain AWT Tools
II-II	R1622122	C2203	E-Commerce	CO1: Identify, interpret and analyze stakeholder needs.
				CO2: Identify and apply relevant problem-solving methodologies.
				CO3: Design components, systems and/or processes to meet required specifications
				CO4: Design components, systems and/or processes to meet required specifications
				CO5: Demonstrate research skills
				CO6: Designing of Multimedia concepts.
II-II	R1622054	C2204	Computer Organization	CO1: Students can understand the architecture of modern computer.
				CO2: They can analyze the Performance of a computer using performance equation
				CO3: Understanding of different instruction types.
				CO4: Students can calculate the effective address of an operand by addressing modes.



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				CO5: They can understand how computer stores positive and negative numbers.
				CO6: Understanding of how a computer performs arithmetic operation of positive and negative numbers.
II-II	R1622123	C2205	Object Oriented Analysis and Design using UML	CO1: Ability to find solutions to the complex problems using object-oriented approach
				CO2: Ability to find solutions to the complex problems using object-oriented approach.
				CO3: Identify classes and responsibilities of the problem domain
				CO4: Basic concepts of Behavioural models.
				CO5: Advanced Behavioural models
				CO6: Design component and deployment.
II-II	R1622056	C2206	Principles of Programming Languages	CO1: Describe syntax and semantics of programming languages
				CO2: Explain data, data types, and basic statements of programming languages
				CO3: Design and implement subprogram constructs, Apply object-oriented, concurrency, and event handling programming constructs
				CO4: Develop programs in Scheme, ML, Prolog.
				CO5: Understand and adopt new programming languages
				CO6: Explain the concept of logic programming languages.
III-I	R1631121	C3101	Human Computer Interaction	CO1: Students are assessed on their ability to communicate and apply UCD methods in the capstone project course.
				CO2: Assessment includes examination of team reports and how HCI students can discuss challenges and solutions for adapting UCD methods to fit the practical needs of an actual project
				CO3: Understanding Business Functions.
				CO4: Explain Principles of good screen design.
				CO5: Illustrate screen-based controls
				CO6: Explain effective feedback guidance and assistance
				CO1: Documentation will demonstrate good organization and readability
				CO2 File processing projects will require data organization, problem solving and research.
				CO3: Scripts and programs will demonstrate simple effective user interfaces.



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III-I	R1631052	C3102	Unix and Shell Programming	CO4: Scripts and programs will demonstrate effective use of structured programming.
				CO5: Scripts and programs will be accompanied by printed output demonstrating completion of a test plan.
				CO6: Testing will demonstrate both black and glass box testing strategies.
III-I	R1631122	C3103	Advanced Java Programming	CO1: Construct a Web Application using Servlets.
				CO2: Construct a Web application using Java Server Pages
				CO3: Construct an enterprise application using Session Beans
				CO4: Construct an enterprise application using Entity Beans linked with Database
				CO5: Construct an asynchronous enterprise application using Message-Driven Beans
				CO6: Construction of connectivity between JAVA and JDBC.
III-I	R1631054	C3104	Database Management Systems	CO1: Describe a relational database and object-oriented database.
				CO2: Create, maintain and manipulate a relational database using SQL
				CO3: Describe ER model and normalization for database design.
				CO4: Examine issues in data storage and query processing and can formulate appropriate solutions.
				CO5: Understand the role and issues in management of data such as efficiency, privacy, security, ethical responsibility, and strategic advantage.
				CO6: Design and build database system for a given real world problem
III-I	R1631055	C3105	Operating Systems	CO1: Design various Scheduling algorithms
				CO2: Apply the principles of concurrency
				CO3: Design deadlock, prevention and avoidance algorithms
				CO4: Compare and contrast various memory management schemes.
				CO5: Design and implement a prototype file system.
				CO6: Perform administrative tasks on Linux Servers
				CO1: Understand OSI and TCP/IP models.



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III-II	R1632051	C3201	Computer Networks	CO2: Analyze MAC layer protocols and LAN technologies
				CO3: Design applications using internet protocols
				CO4: Understand routing and congestion control algorithms
				CO5: Understand how internet works
				CO6: Designing of Transport and application Layer.
III-II	R1632121	C3202	Data Mining	CO1: Understand stages in building a Data Warehouse
				CO2: Understand the need and importance of preprocessing techniques
				CO3: Understand the need and importance of Similarity and dissimilarity techniques.
				CO4: Analyze and evaluate performance of algorithms for Association Rules.
				CO5: Analyze Classification and Clustering algorithms.
				CO6: Explain in detail about Cluster analysis.
III-II	R1632122	C3203	Web Technologies	CO1: Analyze a web page and identify its elements and attributes.
				CO2: Create web pages using XHTML and Cascading Styles sheets
				CO3: Build dynamic web pages.
				CO4: Build web applications using PHP.
				CO5: Programming through PERL and Ruby
				CO6: Write simple client-side scripts using AJAX
III-II	R1632054	C3204	Software Testing Methodologies	CO1: Understand the basic testing procedures.
				CO2: Able to support in generating test cases and test suites
				CO3: Able to test the applications manually by applying different testing methods and automation tools.
				CO4: Apply tools to resolve the problems in Real time environment.
				CO5: Design state graphs and transition testing.
				CO6: Understanding of Software testing tools.
III-II	R163212B	C3205	Operations Research	CO1: Methodology of operation research.
				CO2: Linear programming solving methods.
				CO3: Design Integer Programming.
				CO4: Analyse Network Flows.
				CO5: Multi-criteria decision techniques.
				CO6: Decision making under the uncertainty and risk.



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IV-I	R1641051	C4101	Cryptography and Network Security	CO1: To be familiarity with information security awareness and a clear understanding of Its importance.
				CO2 To master fundamentals of secret and public cryptography
				CO3: To master protocols for security services
				CO4: To be familiar with network security threats and countermeasures
				CO5: To be familiar with network security designs using available secure solutions (such as PGP, SSL, IPS)
				CO6: Ability to know various system securities.
IV-I	R164105C	C4102	Mobile Computing	CO1: Able to think and develop new mobile application
				CO2: Able to take any new technical issue related to this new paradigm and come up with a solution(s).
				CO3: Able to develop new ad hoc network applications and/or algorithms/protocols.
				CO4: Able to understand & develop any existing or new protocol related to mobile environment s.
				CO5: Able to understand synchronization.
				CO6: Able to know various Manets.
IV-I	R1641121	C4103	Data Ware Housing and Business Intelligence	CO1: Describe the scope and application of business intelligence and decision support.
				CO2: Design systems for sourcing and structuring data to provide an integrated, non-volatile collection of data for decision support using data warehouses;
				CO3: Design multidimensional data models and implement them using star schemas and relational databases.
				CO4: Communicate and foster realistic expectations of the role of OLAP technology and business intelligence systems in management and decision support
				CO5: Explain the need for evolutionary development approaches to developing business intelligence and data warehouse systems;
				CO6: Develop a simple business intelligence system using an OLAP tool
				CO1 The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product and the knowledge of understanding of the Input-



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IV-I	R1641054	C4104	Managerial Economics and Financial Analysis	Output-Cost relationships and estimation of the least cost combination of inputs.
				CO2: One 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.
				CO3: The Learner is able to prepare Financial Statements and the usage of various accounting tools for Analysis and to evaluate various investment project proposals with the help of capital budgeting techniques for decision making.
				CO4: Explain the types of Business Cycles.
				CO5: Basic concepts of accounting.
				CO6: Able to Know various Capital Budgeting.
IV-I	R164105A	C4105	Big Data Analytics	CO1: Preparing for data summarization, query, and analysis.
				CO2: Applying data modelling techniques to large data set
				CO3: Creating applications for Big Data analytics.
				CO4: Building a complete business data analytic solution
				CO5: Construct the Pig Architecture.
				CO6: Applying structure to Hadoop data with Hive.
IV-I	R164105E	C4106	Software Project Management	CO1: To match organizational needs to the most effective software development model
				CO2: To understand the basic concepts and issues of software project management
				CO3: To effectively Planning the software projects
				CO4: To implement the project plans through managing people, communications and change
				CO5: To select and employ mechanisms for tracking the software projects
				CO6: To conduct activities necessary to successfully complete and close the Software projects
				CO1: Develop a familiarity with distributed file systems
				CO2: Describe important characteristics of distributed systems and the salient architectural features of such systems.



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IV-II	R1642051	C4201	Distributed Systems	CO3: Describe the features and applications of important standard protocols which are used in distributed systems
				CO4: Gaining practical experience of inter-process communication in a distributed environment
				CO5: Understand the distributed file systems.
				CO6: Illustrate transactions and Replications.
IV-II	R1642052	C4202	Management Science	CO1: After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational behaviour.
				CO2: Will familiarize with the concepts of functional management project management and strategic management.
				CO3: Design a Functional managements.
				CO4: Learning about Project management.
				CO5: Analysis steps in strategic management.
				CO6: Basic concepts of MIS and MRP.
IV-II	R1642121	C4203	Management Information System	CO1: MIS brings to the notice of the management strength (i.e., strong points) of the organization, to take advantage of the opportunities available.
				CO2: MIS reports on production statistics regarding rejection, defective and spoilage and their effect on costs and quality of the products.
				CO3: Analyze System information and decision theory.
				CO4: Identifying information needed to SDM.
				CO5: Discuss Information System application.
				CO6: Development of information systems.
IV-II	R164212A	C4204	Cyber Security	CO1: Cyber Security architecture principles
				CO2: Cyber Security architecture principles.
				CO3: Identifying different classes of attacks
				CO4: Cyber Security incidents to apply appropriate response
				CO5: Describing risk management processes and practices
				CO6: Evaluation of decision-making outcomes of Cyber Security scenarios.
IV-II	R1642125	C4205	Seminar	Able to know about Seminar.
IV-II	R1642126	C4206	Project	Design Engineering solutions to complex problems in systematic manner.