

An ISO 9001:2015 Certified Institute, Approved by AICTE, Affiliated to JNTU Kakinada, AP Phone: 0866-2844444, Email: <a href="wijayatechfw@gmail.com">wijayatechfw@gmail.com</a> Website: <a href="www.vitw.edu.in">www.vitw.edu.in</a> College Code: NP, Enikepadu, Vijayawada-521108

## **Department of Computer Science and Engineering**

## **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
				CO1:Develop their knowledge on different fields and serve the society accordingly.
				CO2:Get motivated and adopt road safety measures.
				CO3:Creates an awareness in the readers that mass production is ultimately detrimental to biological survival
I-I		HS1101	English	CO4:To choose a source of energy suitable for rural India
				CO5:Acquisite writing skills
				CO6:Indentify safety measures against different varieties of accidents at home and in the work place.
				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.
I-I		BS1101	Mathematics - I	CO3:Determine Laplace transform and inverse Laplace transform of various functions. Apply the Laplace transforms for Solving Linear Differential Equations
				CO4:Calculate total derivative, Jocobian 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:Analyze the advantages and limitations of plastic materials and their use in designing analysis.  CO2:Know the properties, limitations and advantages of Fuels namely Coal, Petrol, Diesel and Biodiesel etc.
			CO3:Redesign engineering products by making use of concepts as on construction and working methodologies of electrodes, batteries and fuel cells and classify the reasons for corrosion and methods to control corrosion.
I-I	BS1106	Applied Chemistry	CO4:Adapt Nanomaterials for modern advances of engineering technology.
			CO5:Prepare Semiconductors and gain knowledge about phenomenon of semiconductors
			CO6:Design models for energy by different natural sources and gets exposure about alternative fuels and their advantages and limitations
			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: Recognize the Computer networks,
I-I	ES1112	Fundamentals of Computer Science	types of networks and topologies.  CO3: Summarize the concepts of Operating Systems and Databases.  CO4: Recite the Advanced Computer
		Engineering	Technologies like Distributed Computing & Wireless Networks.  CO1: The student will learn how to
I-I	ES1103	Drawing	visualize 2D & 3D objects.



			CO1:Calculate a root of algebraic and transcendental equations.
			CO2:Explain relation between the finite difference operators. Compute interpolating polynomial for the given data.
			CO3:Solve ordinary differential equations numerically using Euler's and RK method
I-II	BS1202		CO4:Find Fourier series for certain functions
		Mathematics – II	CO5:Identify/classify and solve the different types of partial differential equations
			CO6:Find Fourier Transforms for certain functions
			CO1:Find rank and Solve simultaneous linear equations numerically using various matrix methods
			CO2:Determine Eigen values and Eigen vectors of a given matrix.
			CO3:Determine double integral over a region and triple integral over a volume.
			CO4:Evaluation of Improper Integrals by using special functions.
I-II	BS1203	Mathematics – III	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: Impart the knowledge of the concept of coherence and superposition and apply the knowledge to understand



I-II	BS1204		the utility of interference in our daily life.
		Applied Physics	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.
			CO1: To write algorithms and to draw flowcharts for solving problems
I-II	ES1201	Programming for Problem Solving using C	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 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
I-II		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.
II-I	R1621051	C201	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 with CO6:Use R in their own research
II-I	R1621052	C202	Mathematical Foundation Of Computer Science	CO1:Comprehend mathematical Principles and logic  CO2:Communicate effectively mathematical ideas/results verbally/in writing



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				CO3:Apply the Knowledge of Number Theory in the areas of such cryptography
				CO4:Demonstrate knowledge of mathematical modelling and proficiency in using mathematical software
				CO5:Demonstrate skills in solving mathematical problems
				CO6:Manipulate and analyze data numerically and graphically using appropriate software
II-I	R1621053	C203	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:An ability to define the other minimization methods for any number of variables Variable Entered Mapping (VEM)  CO5:Quine-MeCluskey (QM) Techniques and perform an algorithmic reduction of logic functions  CO6:To learn simple digital circuits in preparation for computer engineering
II-I	R1621054	C204	Python Programming	preparation for computer engineering CO1:Introduction to Scripting Language CO2:Making Software easily right out of the box CO3:Experience with an interpreted Language. CO4:To build software for real needs CO5:Prior Introduction to testing software
				CO6:Operating System Interface CO1:Distinguish between procedures and



II-I	R1621055	C205	Data Structures	CO2:object oriented programming
11.1	1021033	C203	Through C++	CO3:Apply advanced data structure
			Timough C++	strategies for exploring complex data
				structures.
				CO4:Compare and contrast various data
				structures and design techniques in the
				area of Performance.
				CO5:Implement data structure algorithms
				through C++. • Incorporate data structures
				into the
				applications such as binary search trees
				CO6:AVL and B Trees
				CO7:Implement all data structures like
				stacks, queues, trees, lists and graphs and
				compare their Performance and trade off
				CO1:Know and be able to describe the
				general software architecture of programs
			that use 3D computer graphics.	
			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
II-I	R1621056	C206		buffers, and graphic accelerators/co-
11-1	1021030	C200	Computer Grapines	processors.
				CO3:Know and be able to select among
				models for lighting/shading: Color,
				ambient light; distant and light with
				sources;
				CO4:Phong reflection mode
			CO5:shading (flat, smooth)	
				CO6:Overview of Ray Tracing
				CO1:Define and develop a software
		1 C209		project from requirement gathering to
				implementation
				CO2:Obtain knowledge about principles
				and practices of software Engineering
				CO3:Forcus on Fundamentals of
II-II	R1622051		Software	Modeling a software Project
	K1022031		Engineering	CO3: coding
				CO4:Define and develop a software
				project from requirement gathering to
				implementation
				CO5:Obtain knowledge about principles
				and practices of software Engineering
				CO1:Understand Java programming
II-II	R1622052	C210	Java Programming	
	L			concepts and utilize Java Graphical User



II-II R1622053 C211  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  CO5: Operation (CO5: Operation) (C			I	I	T
troubleshoot Java programming for networking CO3:concepts. CO4:Build Java Application for distributed environment. CO5:Inheritance, types of inheritance CO6:Design and Develop multi-tier applications. CO7:Identify and Analyze Enterprise applications CO1:Be able to understand and apply amortised analysis on data structures, including binary search trees, mergable heaps, and disjoint sets. CO2:Understand the implementation and complexity analysis of fundamental algorithms such as RSA, primarily testing, max flow, discrete Fourier transform CO3:Simple Implementation, Binary Heap-Structure Property-Heap-Order Property-Basic CO4:Binamial queue Structure, Binomial Queue Operation CO5:Optimal Binary Search Trees, Red Black Trees CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory. CO1:Students can understand the architecture of modern computer.					Interface in Program writing.
II-II R1622053 C211  R1622053 C211  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  CO5: Optimal Binary Search Trees, Red Black Trees  CO6: Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  CO1: Students can understand the architecture of modern computer:					1
II-II R1622053 C211  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  CO3: On: Design and Develop multi-tier applications.  CO2: Understand the implementation and complexity analysis of fundamental algorithms such as RSA, primarily testing, max flow, discrete Fourier transform  CO3: Simple Implementation, Binary Heap-Structure Property-Heap-Order Property-Basic  CO4: Build Java Applications  CO7: Identify and Analyze Enterprise applications  CO1: Be able to understand and apply amortised analysis on data structures, including binary search trees, mergable heaps, and disjoint sets.  CO2: Understand the implementation and complexity analysis of fundamental algorithms such as RSA, primarily testing, max flow, discrete Fourier transform  CO3: Simple Implementation, Binary Heap-Structure Property-Heap-Order Property-Basic  CO4: Binamial queue Structure, Binomial Queue Operation  CO5: Optimal Binary Search Trees, Red Black Trees  CO6: Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  CO1: Students can understand the architecture of modern computer.					troubleshoot Java programming for
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II-II R1622053 C211  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  Advanced Data Structures  Advanced Data Structure Property-Heap-Order Property-Basic C04:Binamial queue Structure, Binomial Queue Operation C05:Optimal Binary Search Trees, Red Black Trees  C06:Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  C01:Students can understand the architecture of modern computer.					
II-II R1622053 C211  Advanced Data Structures  Advanced Data Structure Property-Heap-Order Property-Basic CO4:Binamial queue Structure ,Binomial Queue Operation CO5:Optimal Binary Search Trees, Red Black Trees  CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality , string matching game theory.  CO1:Students can understand the architecture of modern computer.					1
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II-II R1622053 C211 Structures CO4:Binamial queue Structure ,Binomial Queue Operation CO5:Optimal Binary Search Trees, Red Black Trees  CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality , string matching game theory.  CO1:Students can understand the architecture of modern computer.					
Queue Operation  CO5:Optimal Binary Search Trees, Red Black Trees  CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  CO1:Students can understand the architecture of modern computer.	11 11	D1622052	C211	Advanced Data	
CO5:Optimal Binary Search Trees, Red Black Trees  CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  CO1:Students can understand the architecture of modern computer.	11-11	K1022033	C211	Structures	
Black Trees  CO6:Have an idea of applications of algorithms in variety of areas including linear programming and duality, string matching game theory.  CO1:Students can understand the architecture of modern computer.					· I
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architecture of modern computer.					
<del></del>					
CO2:They can analyze the Performance of					<u> </u>
					CO2:They can analyze the Performance of
a computer using performance equation					
CO3:Understanding of different					_
instruction types.					
II-II R1622054 CO Computer CO4:Students can calculate the effective	11 11	D1622054	CO	Computer	CO4:Students can calculate the effective
Organization address of an operand by addressing	11-11	K1022034		Organization	address of an operand by addressing
modes					
CO5:They can understand how computer					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.



	T	I	1	CO1.Classify no -1.1
				CO1:Classify machines by their power to
				recognize languages,
				CO2:Employ finite state machines to
				solve problems in computing,
				CO3:Explain deterministic and non-
			Formal Languages	deterministic machines,
II-II	R1622055	C213	and Automata	CO4:Pushdown Automata, Definition,
			Theory	Model
				CO5:Turing Machines-Instantaneous
				Descriptions, Transition Tables and
				Transition Diagrams
				CO6:Comprehend the hierarchy of
				problems arising in the computer science
				CO1:Describe syntax and semantics of
				programming languages
				CO2:Explain data, data types, and basic
II-II R162				statements of programming languages
			Principles of Programming Languages	CO3:Design and implement subprogram
				constructs, Apply object - oriented,
	R1622056	622056 C214		concurrency, and event handling
	1022000			programming constructs
				CO4:Develop programs in Scheme, ML,
				and Prolog
				CO5:Object – orientation, design issues
				CO6:OOP languages, implementation of
				object, oriented constructs, concurrency
				CO1:Acquire knowledge in different
				phases and passes of Compiler, and
			specifying different types of tokens by	
			lexical analyzer	
		1051 C301	Compiler Design	CO2:also able to use the Compiler tools
				like LEX, YACC, etc
III-I	R1631051			CO3:Parser and its types i.e. Top-down
				and Bottom-up parsers.
				CO4:Construction of LL, SLR, CLR and
				LALR parse table.
				CO5:Syntax directed translation,
				synthesized and inherited attributes.
				CO6:Techniques for code optimization.
				CO1:Documentation will demonstrate
	R1631052			good organization and readability.
		052 C302	Unix Programming	CO2:File processing projects will require
III-I				data organization, problem solving and
				research.
				CO3:Scripts and programs will
				demonstrate simple effective user
L	l	I.	<u>[</u>	



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				interfaces. Scripts and programs will
				demonstrate effective use of structured
				programming.
				CO4:Scripts and programs will be
				accompanied by printed output
				demonstrating completion of a test plan.
				CO5:Testing will demonstrate both black
				and glass box testing strategies
				CO6:Project work will involve group
				participation.
				CO1:Ability to find solutions to the
				complex CO2:problems using object
				oriented approach
III-I R1631053			CO3:Represent classes	
		Object Oriented	CO3:Represent classes CO4:responsibilities and states using	
	C303	Analysis and Design	UML notation	
111-1	K1031033	C303	using	
			UML	CO5:Identify classes
			CO6:responsibilities of the problem	
			domain	
				CO7:Study the notations of Unified
				Modelling Language
		54 C304	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
III-I	R1631054			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
				CO1:Design various Scheduling
	III-I R1631055	C305		algorithms.
				CO2:Apply the principles of concurrency.
				CO3:Design deadlock, prevention and
III-I			Operating Systems	avoidance algorithms.
			Operating Systems	CO4:Compare and contrast various
				memory management schemes.
				Design and Implement a prototype file
				systems.
				CO5:Perform administrative tasks on



	<u> </u>	1		Linux Servers
				CO6:Introduction to Android Operating
				System Internals
				CO1:Understand OSI and TCP/IP models
				CO2:Analyze MAC layer protocols and
				LAN technologies
				CO3:Design applications using internet
III-II	R1632051	C309	Computer networks	protocols
				CO4:Understand routing and congestion
				control algorithms
				CO5:Understand how internet works
				CO6:Scheduling Algorithms
				CO1:Understand stages in building a Data
				Warehouse
				CO2:Understand the need and importance
				of CO3:Pre-processing techniques
				CO4:Understand the need and importance
III-II	R1632052	C310	Data Ware Housing And Data Mining	of Similarity and dissimilarity techniques
		CS10		CO5:Analyze and evaluate performance
				of algorithms for Association Rule
				CO6:Analyze Classification and
				Clustering algorithms
				CO7:Analyze DBSCAN
				CO1:Argue the correctness of algorithms
		2053 C311	Design And Analysis	using inductive proofs and invariants.
				CO2:Analyze worst-case running times of
				algorithms using asymptotic analysis.
				CO3:Describe the divide-and-conquer
				paradigm and explain when an
				algorithmic design situation calls for it.
	R1632053			Recite algorithms that employ this
				paradigm. Synthesize divide-and conquer
				algorithms
				CO4:Derive and solve recurrences
III-II				describing the performance of divide and-
111-11			Of Algorithms	
				conquer algorithms.
				CO5:Describe the dynamic-programming
				paradigm and explain when an
				algorithmic design situation calls for it.
				Recite algorithms that employ this
				paradigm. Synthesize dynamic
				programming algorithms, and analyze
				them.
				CO6:Describe the greedy paradigm and
				explain when an algorithmic design
				situation calls for it. Recite algorithms that



	1		T	1 1 1 2 2 1 1
				employ this paradigm. Synthesize greedy
				algorithms, and analyze them.
				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
111 11	D1622054	G212	Software Testing	method
III-II	R1632054	C312	Methodologies	CO4:Able to test the applications
				manually by applying different
				automation tools
				CO5:Apply tools to resolve the problems
				in Real time environment.
				CO6:Apply various Software Testing
				Tools
				CO1:IPR Laws and patents pave the way
			IPR & Patents	for innovative ideas which are
		)		instrumental for inventions to seek Patents
				CO2:Student get an insight on Copyrights,
III-II	R1632049			Patents and Software patents which are
111 11				instrumental for further advancements.
				CO3:Various cyber law and Cyber crime
				CO4: Various types of Trademarks
				CO5:Various types of patents
				CO6:Information Technology Act 2000
		51 C401	Cryptography And Network Security	CO1:Be able to individually about
				software security problems
				CO2:Protection techniques on both an
				abstract and a more technically advanced
				level
137.1	D1640151			CO3:Be able to individually explain how
IV-I	R1640151			software exploitation Techniques, used by
				adversaries function and how to protect
				them
				CO4:various cryptography algorithms
				CO5:Asymmetric Key Cryptography
				CO6:Digital Signatures
				CO1:Identify the purpose and methods of
				use of common object-oriented design
				patterns
			UML & Design	CO2:select and apply these patterns in
IV-I	R1640151	0151 C402	Patterns	their own designs
			ratterns	
				CO3:represent the data dependencies of a
				simple program using UML
				CO4:represent user and programmatic



			1	interactions using LIMI
				interactions using UML
				CO5:produce and represent documents for
				purpose of capturing software
				requirements and specifications
				CO6:produce plans to limits risks specific
				to software designed for use in a
				particular context
				CO1:able to think and develop new
				mobile application
				CO2:able to take new technical issue
				related to new this paradigm and find
				solutions to them
17.7.1			Mobile Computing	CO3:able to develop new adhoc
IV-I				applications
				CO4:able to understand and develop any
				existing or new protocol related to mobile
				environment
				CO5:data synchronization
				CO6:MANETS
IV-I	R164105A	C407	Big Data Analytics	CO1:Summarize data structures and
				generics in java
				CO2:Outline the building blocks of
				Hadoop and summarize different modes
				of Hadoop Installation
				CO3:Experiment by writing basic map
				reduce programs
				CO4:Make use of hadoop input output
				and writable interface for building map
				reduce applications
				CO5:Demonstrate PIG architecture and
				develop PIG scripts
				CO6:Apply HIV E to structure and Data
				and to develop HIVE queries
IV-I				CO1:Make use of system models for
				distributed and cloud competing HPC and
				HTC can be obtained
				CO2:Extend the virtualization concept to
				chips ,CPUS, networks and data centres
			Cloud Computing	CO3:Apply the offered services servicing
				models cloud platforms and bring out
				efficient SOA
				CO4:Identify the features of distributed
				systems GRID platforms and survey the
				services offered by Google app AWS and
				MS Azure
				CO5:Analyze cloud resource management
	Ì	Ì		COS. Amaryze croud resource management



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Ike Google file system, apache, hadoop and Amazon S3					1 11
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CO2:Summarize the business models in
the IOT,IOT layers and design
standardization, communication
technologies and of designing
CO3:Infer the design principles fr web
connectivity for connected devices
CO4:Out line connectivity principles and
application layer protocols
CO5:Summarize data acquiring
organizing and analytics in IOT and
explain business process integration
CO6:Make use of Data Collection storage
and computing using cloud platform and
identify everything as a service and cloud
service models
service models