SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

(Formerly RVR Institute of Engineering & Technology)
Approved by AICTE, New Delhi and Affiliated to JNTUH.
Recognized under 2(f) of UGC Act 1956.
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES (COs)

S.No	Year /Sem	Course Code	Course Name	Course Outcomes (After completion of the course student can able to :)
1	II/I	CS301ES	Analog and Digital Electronics	**CO1:** Acquire knowledge of electrical characteristics of ideal and practical diodes under forward and reverse bias to analyze and design diode application circuits such as rectifiers.
				CO2: Utilize operational principles of bipolar to derive appropriate small-signal models and use them for the analysis of basic circuits.
				CO3: Understand the basic concept of number systems, Boolean algebra principles.
				CO4: Understand minimization techniques for Boolean algebra.
				CO5: Analyze Combination logic circuit such as multiplexers, adders, decoders.
				CO6: Understand about synchronous and asynchronous sequential logic circuits.
2	II/I	CS302PC	Data Structures	**CO1:** Choose appropriate data structures to represent data items.
				CO2: Analyze the time and space complexities of algorithms.
				CO3: Design programs using a variety of data structures such as stacks, queues, hash tables, binary trees, search trees, heaps, graphs and B-trees.
				CO4: Analyze and implement various kinds of searching and sorting methods.
				CO5: Describe how arrays, linked structures, stacks, queues, trees, and graphs are represented in memory.
				CO6: Design programs using c language.
3	II/I	MA303BS	Computer Oriented Statistical Methods	**CO1:** Describe the conditional probability and state the Baye's theorem and solve its applications.
				CO2: Solve the problems on random variables and compare the difference between probability distributions.
				CO3: Construct the area of normal curve and distinguish binominal, gamma and exponential distributions.
				CO4: Formulate the sampling distribution of means and sampling distribution of variances.
				CO5: Classify the methods of estimations and errors of

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				estimations.
				CO6: Identify the test of hypothesis for single mean , proportion and difference between the means , proportions and learn the concept of Markov process and different types of states.
4	II/I	CS304PC	Computer Organization and Architecture	**CO1:** Describe basics of computer organization and register transfer languages and micro operations such as arithmetic, logic, shift micro operations.
				CO2: Explain about computer instructions, computer registers, instruction cycle and interrupt cycle.
				CO3: Describe the design of control unit with address sequencing and microprogramming concept and CPU with instruction formats, addressing modes and types of instructions such as data transfer, manipulation and program control.
				CO4: Describe various data representations and explain how arithmetic operations are performed by computer.
				CO5: Illustrate the concepts of Input-Output Organization and Memory Organization.
				CO6: Describe the parallel processing and multiprocessors concept.
5	II/I	CS305PC	Object Oriented Programming using C++	**CO1:** Develop application for a range of problem using object oriented programming concepts.
				CO2: Construct programs on various methodology using class and object.
				CO3: Illustrate the different forms of inheritance.
				CO4: Construct and develop programs with reusability using polymorphism and virtual function.
				CO5: Develop programs for file handling.
				CO6: Identify and can handle exceptions in programming.
6	II/I	CS306ES	Analog & Digital Electronics Lab	**CO1:** Know the characteristics of various components.
				CO2: Understand the utilization of components.
				CO3: Design and analyze small signal amplifier circuits.
				CO4: Postulates of Boolean algebra and to minimize combinational functions.
				CO5: Design and analyze combinational and sequential circuits.
				CO6: Known about the logic families and realization of logic gates.
				CO1: Summarize different categories of data Structures.
				CO2: Analyze the performance of an algorithm.
				CO3: Develop C programs for computing control

7	II/I	CS307PC	Data Structures Lab	statements.
				CO4: Understand C programs for computing arrays, functions, pointers, strings.
				CO5: Understand stacks, queues and linked lists.
				CO6: Ability to Implement searching and sorting algorithms.
8	II/I	CS308PC	IT Workshop Lab	**CO1:** Identify the parts of CPU and able to learn knowledge for computer assembling and disassembling.
				CO2: Resolve the Software installation.
				CO3: Ability to solve the trouble shooting problems.
				CO4: Apply the techniques and netiquettes while using internet.
				CO5: Model a web page by using HTML
				CO6: Apply the tools for preparation of PPT, Documentation and budget sheet etc.
9	II/I	CS309PC	C++ Programming Lab	**CO1:** Identify and able to develop applications for a range of problems on operators such as scope resolution and new delete memory allocation.
				CO2: Write a basic concepts on initializing and displaying contents of class member and structure of class.
				CO3: Develop basic programs on inheritance.
				CO4: Identify and able to do programs to use pointer for both base and derived classes and call the member function by using Virtual keyword.
				CO5: Develop basic programs on console i/o operations.
				CO6: Develop programs on arrays and inline functions.
10	II/I	MC309	Gender Sensitization Lab	**CO1:** Develop sensibility with regard to issues of gender in contemporary India.
				CO2: Provide a critical perspective on the socialization of men and women.
				CO3: Determine information about some key biological aspects of genders.
				CO4: Debate on the politics and economics of work.
				CO5: Reflect critically on gender violence.
				CO6: Expose more egalitarian interactions between men and women.
11	II/II	CS401PC	Discrete Mathematics	**CO1:** Understand and construct precise mathematical proofs.
				CO2: Use logic and set theory to formulate precise statements.
				CO3: Analyze and solve counting problems on finite and discrete structures.

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				CO4: Describe and manipulate sequences.
				CO5: Apply graph theory in solving computing problems.
12	II/II	SM402MS	Business Economics & Financial Analysis	**CO1:** The students will understand various forms of Business and the impact of economic variables on the business.
				CO2: Understand the significance of elasticity of demand and its forecasting, law of demand and its exceptions and supply analysis.
				CO3: Understand production analysis function with different variables and cost analysis functions.
				CO4: To adopt the principles of accounting to record, classify and summarize various transactions in books of accounts for preparation of final accounts.
				CO5: Understand the Ratio analysis to give an idea about financial forecasting, financial planning, controlling and decision making.
				CO6: Understand the implementation of different structures of markets covering how price-output is determined under different market structures.
13	II/II	CS403PC	Operating Systems	**CO1:** Describe operating system goals and functions.
				CO2: Get the knowledge of process, various CPU scheduling algorithms and synchronization.
				CO3: Analyze the methods for handling deadlocks.
				CO4: Understand the memory management and several page replacement algorithms.
				CO5: Classify the storage management and file system implementation.
				CO6: Express the various system protection methods.
14	II/II	CS404PC	Database Management Systems	**CO1:** Identify and understand the underlying concepts of database techniques and query a database using DML/DDL commands and able to design entity relationship diagrams.
				CO2: Explain the concepts of relational data model, entity-relationship model and relational database design.
				CO3: Apply relational algebra and calculus, understands the use of sql and learns sql syntax.
				CO4: Develop and improve database design by normalization.
				CO5: Define transaction and understand its properties. Learns techniques for controlling the consequences of concurrent data access.
				CO6: Describe basic database storage structures and access techniques: file and page organisations, index methods including B tree and Hashing.

15	II/II	CS405PC	Java Programming	**CO1:** Analyze Object Oriented Programming Concepts.
				CO2: Develop the Abstract Classes and know the importance of the Inheritance, Encapsulation and Polymorphism.
				CO3: Implementing interfaces and creating packages and create files and directories using g Java I/O Streams.
				CO4: Get the importance of Exception handling and knowledge of multithreading and java collection classes concepts.
				CO5: Design web applications by using applets and swings.
				CO6: Recognize event handling concepts in java.
16	II/II	CS406PC	Operating Systems Lab	**CO1:** Develop programs on CPU scheduling algorithms.
				CO2: Construct the programs on file organisation and file allocation techniques.
				CO3: Solve deadlock avoidance and deadlock prevention using Bankers' algorithm.
				CO4: Classify and construct programs on memory management techniques.
				CO5: Develop application programs using system calls.
				CO6: Describe inter processes communication between the processes using semaphores and named pipes.
17	II/II	CS406PC	Database Management Systems Lab	**CO1:** Identify and understand the underlying relational data model, entity-relationship model and relational database design. **CO2:** Develop and improve database design by normalization.
				CO3: Identify and understand the underlying concepts of database techniques and query a database using DML/DDL commands.
				CO4: Identify and understands the use of sql and learns sql syntax of set difference operators and joins.
				CO5: Write basic database query using Aggregate operators.
				CO6: Write basic database on Triggers and procedures.
18	II/II	CS408PC	Java Programming Lab	**CO1:** Construct the programs for Abstract classes, Inheritance and Interface.
				CO2: Write the program for Multithreading and Files operations.
				CO3: Prepare the programs for applets.
				CO4: Develop the basic applications by using Swing components.
				CO5: Construct the programs for collection Framework.

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				CO6: Recognize the concept of Event Listeners and implements the Event components.
19	II/II	MC409	Constitution of India	**CO1:** Understand meaning, features, characteristics of constitution law and constitutionalism.
				CO2: Describe fundamental rights, fundamental duties and its legal status.
				CO3: Describe The constitution powers and status of the President of India.
				CO4: Understand Emergency Provisions: National Emergency, President Rule, And Financial Emergency.
				CO5: Understand Fundamental Right to Equality, Fundamental Right to certain Freedom under Article 19.
				CO6: Describe the Scope of the Right to Life and Personal Liberty under Article 21.
20	III/I	CS501PC	Design and Analysis of Algorithms	**CO1:** Analyze the Performance of an Algorithm.
				CO2: Solve the problems using divide and conquer approach.
				CO3: Develop constraint satisfied solutions using backtracking.
				CO4: Evaluate feasible solutions using Greedy method.
				CO5: Developing solutions to problems using dynamic programming.
				CO6: Define np hard and no complete problems.
21	III/I	CS502PC	Data Communication and Computer Networks	**CO1:** Analyze the features and services of various protocol layers in network.
				CO2: Apply the error free techniques to send data from source to destination.
				CO3: Making and analyze the skills of subneting and routing mechanisms.
				CO4: Identify the processes to processes mechanisms.
				CO5: Design the congestion free network and maintain QoS.
				CO6: Analyze how an e-mail will be processing and know the worldwide web concepts.
22	III/I	CS503PC	Software Engineering	**CO1:** Analyze various data base techniques for data warehouse and able to perform OLAP Operations.
				CO2: Ability to perform the Pre-processing of data and apply mining techniques on data.
				CO3: Understand frequent set and apply association Rule on Data Set.
				CO4: Evaluate the data mining ask like Classification, Regression Clustering on large data set.
				CO5: Ability to solve real world Problems in business and scientific information using data mining.

				CO6: Ability to understand clustering Concepts in the real world and apply Various clustering techniques.
23	III/I	SM504MS	Fundamentals of Management	**CO1:** Write the working principle of fundamentals of management basics.
				CO2: Setup Planning Process and develops the Decision Making and Problem Solving skills.
				CO3: Explains Organization principles, Design, Structures and basic fundamentals of Organization.
				CO4: Analyze Leadership styles and handling employee and customer complaints, and motivational theories.
				CO5: What is controlling, types, strategies, steps characteristics and process of controlling.
				CO6: What is HRM and Human Resource Planning, Recruitment and Selection, & Training and development.
24	III/I	EM511OE	Scripting Languages	**CO1:** State the importance of scripting languages and working principle of linux operating system.
				CO2: Illustrate the principles of linux networking in Linux RHEL6/7/ubuntu operating systems.
				CO3: Discover the importance of scripting languages with the help of the perl scripting language.
				CO4: Design application using TCL/TK scripts for automation of scripts in Linux.
				CO5: Develop the web applications master and understanding of python especially the object oriented concepts in python.
				CO6: Prepare and run scripts at server side using PERL/TCI/Python in Linux environment.
25	III/I	CS505PC	Design and Analysis of Algorithms Lab	**CO1:** Solve the Problems by using the Technique of Divide and Conquer.
				CO2: Write the programs for Graph Searching Methods.
				CO3: Illustrate the Problems by using the Technique of Backtracking.
				CO4: Analyze the cost of minimum spanning tree.
				CO5: Develop the programs using Greedy method.
				CO6: Solve the Problems by using the Technique of Dynamic programming.
26	III/I	CS506PC	Computer Networks Lab	**CO1:** Analyze the data link layer protocols by Analyse error detection and error correction codes.
				CO2: Design mathematical foundations to solve computational problems in computer networking.
				CO3: Analyze the performance of various communication protocols.
				CO4: Compare routing algorithms.

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				CO5: Analyse and Implement routing and congestion issues in network design.
				CO6: Compare and implement various kinds of encryption and decryption techniques.
27	III/I	CS507PC	Software Engineering Lab	**CO1:** Understand the software engineering methodologies involved in the phases for project development.
				CO2: Gain knowledge about open source tools used for implementing software engineering methods.
				CO3: Exercise developing product-start-ups implementing software engineering methods.
				CO4: Study the problem and identify the project scope, Objectives and Infrastructure.
				CO5: Identify the modules of the project and differentiate the functional and non-functional requirements.
				CO6: Create prototypes for the projects.
28	III/I	MC500HS	Professional Ethics	**CO1:** Understand importance of values and ethics in their personal lives & professional careers.
				CO2: Describe basic theories like virtue theory, rights theory and casuist theory.
				CO3: Understand professional practices in engineering.
				CO4: Describe central responsibilities of engineers.
				CO5: Understand work place rights and responsibilities.
				CO6: Analyze various global issues in professional ethics.
29	III/II	CS601PC	Compiler Design	**CO1:** Describe structure of a compiler and basics of programming languages.
				CO2: Design Lexical analyzer generator by using regular expressions and finite automata.
				CO3: Design and implement LL and LR parsers and use YACC Tool for developing a parser.
				CO4: Explain the applications of SDT and different types of intermediate-code generation.
				CO5: Identify the storage organization used to support the run-time environment of a program and effectively generate machine codes.
				CO6: Apply the several algorithms for collecting and optimizing the information using data flow analysis.
30	III/II	CS602PC	Web Technologies	**CO1:** Construct the web applications using HTML language.
				CO2: Explain server side scripting with PHP language.
				CO3: Identify well formed/valid XML documents.
				CO4: Develop server side applications using servlets.

				CO5: Get the knowledge on Java Server Pages.
				CO6: Evaluate the validation of forms using Java Script and Explain AJAX.
31	III/II	CS603PC	Cryptography and Network Security	**CO1:** Understand various attacks on the network and understanding the need for security.
				CO2: Apply various classical encryption techniques on messages and analyze various security services and mechanisms.
				CO3: Compare and contrast symmetric and asymmetric key cryptographic systems.
				CO4: Describe the cryptographic hash functions, message authentication codes and various key management and distribution techniques.
				CO5: Explain different protocols like SSL, TLS, HTTPS, SSH and various wireless network standards.
				CO6: Analyze how PGP and S/MIME is used to protect messages transmitted through E- Mail and explains IPSEC.
32	III/II	CS611PE	Mobile Computing	**CO1:** Write the working principle of mobile computing basics and GSM architecture.
				CO2: Describe the principle of operation of MAC and Mobile IP.
				CO3: Explain the transport layer protocols and query processing in mobile database.
				CO4: Analyze the software's and protocols in data dissemination and synchronization.
				CO5: Setup new ad hoc network applications and apply algorithms & protocols.
				CO6: Write about various protocols and platforms for mobile computing.
33	III/II	CS604PC	Cryptography & Network Security Lab	**CO1:** Develop and execute basic encryption and decryption programs using XOR, OR and AND operator.
				CO2: Implement substitution technique programs in java.
				CO3: Understand mechanism involved in symmetric key cryptography and implement DES AES blowfish algorithm programs in java.
				CO4: Design and develop stream cipher technique for RC4 algorithm programs in java.
				CO5: Develop and execute programs of asymmetric key cryptography.
				CO6: Implement hash functions like MD4 and SHA-1 in java.

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34	III/II	CS605PC	Web Technologies Lab	**CO1:** Use XAMP Stack for web applications.
				CO2: Creating static client application by using HTML.
				CO3: Creating server side applications using PHP.
				CO4: Parsing the data by using XML'SC.
				CO5: Usage of apache tomcat server for deploying JSP and servlets.
				CO6: Learn client side script languages like java script.
35	III/II	EN606HS	Advanced English Communication Skills Lab	**CO1:** Speak effectively.
				CO2: Express and communicate fluently and appropriately in social professional contexts.
				CO3: Develop the comprehensive ability through English language enables the students in understanding and assimilating other engineering subjects.
				CO4: The awareness of English lab enriches their communication and soft skills contributing to their overall development and success.
				CO5: Draft various letters and reports for all official purpose.
				CO6: Take part in social and professional communication.
36	IV/I	CS701PC	Data Mining	**CO1:** Analyze various data base techniques for data warehouse and able to perform OLAP Operations.
				CO2: Ability to perform the Pre-processing of data and apply mining techniques on data.
				CO3: Understand frequent set and apply association Rule on Data Set.
				CO4: Evaluate the data mining ask like Classification, Regression Clustering on large data set.
				CO5: Ability to solve real world Problems in business and scientific information using data mining.
				CO6: Ability to understand clustering Concepts in the real world and apply Various clustering techniques.
37	IV/I	CS702PC	Principles of Programming Languages	**CO1:** Express the important features of the Programming Languages.
				CO2: Develop the skills for expressing syntax and semantics in formal notation.
				CO3: Compare different Programming Domains.
				CO4: Choose Specific Programming Language for the Development of Specific Applications.
				CO5: Analyze the Importance of Implementation Process.
				CO6: Apply a suitable programming paradigm for a given computing application.

38	IV/I	CS721PE	Python Programming	**CO1:** Examine python syntax and semantics and be fluent in the use of python flow control and functions.
				CO2: Demonstrate proficiency in handling strings and file systems.
				CO3: Create run and manipulate python programs using core data structures like lists, dictionaries and use regular expressions.
				CO4: Interpret the concepts of object oriented programming as used in python.
				CO5: Recognize exemplary applications related to network programming and web services.
				CO6: Summarize the applications related to databases in python.
39	IV/I	CS732PE	Distributed Systems	**CO1:** Describe the knowledge of the basic elements and concepts related to distributed system technologies.
				CO2: Understand about distributed algorithms for locking, synchronization and concurrency, scheduling.
				CO3: Discover knowledge of details the main underlying components of distributed systems (such as RPC, file systems).
				CO4: Understand the properties of file which are used in networks. (Knowledge).
				CO5 : Apply important methods in distributed systems to support scalability and fault tolerance
				CO6: Illustrate the experience in building large-scale distributed applications.
40	IV/I	CS742PE	Cloud Computing	**CO1:** Distinguish different types of Distributed System models and enabling technologies.
				CO2: Ability to perform four cloud deployment models.
				CO3: Ability to manage cloud applications, migrate applications to cloud.
				CO4: Explore the Iaas service providers, Paas, Saas service providers.
				CO5: Originates and manage applications on Amazon Web Services cloud.
				CO6: Solve with different workflow engines like Aneka, Azure and IBM smart cloud, SAP Labs.
41	IV/I	CS703PC	Data Mining Lab	**CO1:** Add mining algorithms as a component to the exiting tools.
				CO2: Apply mining techniques for realistic data.
				CO3: Perform the Pre-processing of data and apply mining techniques on data.

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				CO4: Understand frequent set and apply association Rule on Data Set.
				CO5: Evaluate the data mining ask like Classification, Regression Clustering on large data set.
				CO6: Solve real world Problems in business and scientific information using data mining.
42	IV/I	CS751PC	Python Programming Lab	**CO1:** Student should be able to understand the basic concepts scripting and the Contributions of scripting language.
				CO2: Ability to explore python especially the object oriented concepts, and the built in Objects of Python.
				CO3: Understand the concept of modules in python script.
				CO4: Handling the files using python.
				CO5: Ability to create practical and contemporary applications such as Web applications.
				CO6: Understand the applications based on Database concept.
43	IV/I	CS705PC	Industry Oriented Mini Project	**CO1:** Apply fundamental concepts and methods of their engineering field.
				CO2: Use effectively oral, written and visual communication.
				CO3: Understand working with teams.
44	IV/I	CS706PC	Seminar	**CO1:** Understand advanced research methodologies in the field of computer science engineering.
				CO2: Demonstrate their understanding of discussions and spark further discussion.
				CO3: Identify understand and discuss current issues in the engineering field.
45	IV/II	CE511OE	Disaster Management	**CO1:** Identify the types of disaster and vulnerabilities.
				CO2: Describe the basic concepts of the emergency management cycle (mitigation, preparedness, response, and recovery).
				CO3: Describe the understanding in capacity building concepts and planning of disaster managements.
				CO4: Describe the coping with disaster and strategies.
				CO5: Explain the roles of government agencies in emergency management.
				CO6: Develop an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations.
46	IV/II	CS852PE	Real Time Systems	**CO1:** Identify and use Linux utilities to create and manage simple file processing operations.
				CO2: Analyze the services and scheduling in data

				Concurrency and synchronization.
				CO3: Design and implement Building blocks using components and named Pipes.
				CO4: Write the brief history of basic I/O concepts and its subsystems technique.
				CO5: Apply common applications to incremental development.
				CO6: Evaluate software source code using different kind of Embedded Linux and Tiny OS.
47	IV/II	CS862PE	Web Services and Service Oriented Architecture	**CO1:** Interpret the evolution of web services and their challenges in distributed computing.
				CO2: Develop emerging and proposed standards for the main components of Web services architecture.
				CO3: Create the role of security-as-a-service for signing xml documents.
				CO4: Describe the core fundamentals of soap and their message exchange models related to security.
				CO5 : Apply the publish, find, bind architecture for Web services and to use the corresponding standards, In particular, Web Services Description Language (WSDL), Simple Object Access Protocol (SOAP),and Universal Description, Discovery and Integration (UDDI).
				CO6: Discover new technologies in Web services that provide security.
48	IV-II	CS801PC	Major Project	**CO1:** Analyze engineering problems, identify an appropriate solution, implement the methodology and propose a meaningful solution.
				CO2: Develop confidence for self-education and ability for lifelong learning.
				CO3: Learn to work as a team and to focus on getting a working project done within a stipulated period of time.

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