



Sri Indu Institute of Engineering & Technology

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Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510.

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Program : B.Tech-Computer Science and Engineering	Academic Year : 2020-21	Semester : I & II
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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 estimations.


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				<p>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.</p>
4	II/I	CS304PC	Computer Organization and Architecture	<p>CO1: Describe basics of computer organization and register transfer languages and micro operations such as arithmetic, logic, shift micro operations.</p> <p>CO2: Explain about computer instructions, computer registers and instruction cycle and interrupt cycle.</p> <p>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.</p> <p>CO4: Describe various data representations and explain how arithmetic operations are performed by computer.</p> <p>CO5: Illustrate the concepts of Input-Output Organization and Memory Organization.</p> <p>CO6: Describe the parallel processing and multiprocessors concept.</p>
5	III/I	CS305PC	Object Oriented Programming using C++	<p>CO1: Develop application for a range of problem using object oriented programming concepts.</p> <p>CO2: Construct programs on various methodology using class and object.</p> <p>CO3: Illustrate the different forms of inheritance.</p> <p>CO4: Construct and develop programs with reusability using polymorphism and virtual function.</p> <p>CO5: Develop programs for file handling.</p> <p>CO6: Identify and can handle exceptions in programming.</p>
6	III/I	CS306ES	Analog & Digital Electronics Lab	<p>CO1: Know the characteristics of various components.</p> <p>CO2: Understand the utilization of components.</p> <p>CO3: Design and analyze small signal amplifier circuits.</p> <p>CO4: Postulates of Boolean algebra and to minimize combinational functions.</p> <p>CO5: Design and analyze combinational and sequential circuits.</p> <p>CO6: Known about the logic families and realization of logic gates.</p>
7	II/I	CS307PC	Data Structures Lab	<p>CO1: Summarize different categories of data Structures.</p> <p>CO2: Analyze the performance of an algorithm.</p> <p>CO3: Develop C programs for computing control statements.</p> <p>CO4: Understand C programs for computing arrays, functions, pointers, strings.</p> <p>CO5: Understand stacks, queues and linked lists.</p>

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				<p>CO6: Ability to Implement searching and sorting algorithms.</p>
8	II/I	CS308PC	IT Workshop Lab	<p>CO1: Identify the parts of CPU and able to learn knowledge for computer assembling and disassembling.</p>
				<p>CO2: Resolve the Software installation.</p>
				<p>CO3: Ability to solve the trouble shooting problems.</p>
				<p>CO4: Apply the techniques and netiquettes while using internet.</p>
				<p>CO5: Model a web page by using HTML</p>
				<p>CO6: Apply the tools for preparation of PPT, Documentation and budget sheet etc.</p>
9	II/I	CS309PC	C++ Programming Lab	<p>CO1: Identify and able to develop applications for a range of problems on operators such as scope resolution and new delete memory allocation.</p>
				<p>CO2: Write a basic concepts on initializing and displaying contents of class member and structure of class.</p>
				<p>CO3: Develop basic programs on inheritance.</p>
				<p>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.</p>
				<p>CO5: Develop basic programs on console i/o operations.</p>
				<p>CO6: Develop programs on arrays and inline functions.</p>
10	II/I	MC309	Gender Sensitization Lab	<p>CO1: Develop sensibility with regard to issues of gender in contemporary India.</p>
				<p>CO2: Provide a critical perspective on the socialization of men and women.</p>
				<p>CO3: Determine information about some key biological aspects of genders.</p>
				<p>CO4: Debate on the politics and economics of work.</p>
				<p>CO5: Reflect critically on gender violence.</p>
				<p>CO6: Expose more egalitarian interactions between men and women.</p>
11	II/II	CS401PC	Discrete Mathematics	<p>CO1: Understand and construct precise mathematical proofs.</p>
				<p>CO2: Use logic and set theory to formulate precise statements.</p>
				<p>CO3: Analyze and solve counting problems on finite and discrete structures.</p>
				<p>CO4: Describe and manipulate sequences.</p>
				<p>CO5: Apply graph theory in solving computing problems.</p>
				<p>CO1: The students will understand various forms of Business and the impact of economic variables on the business.</p>
				<p>CO2: Understand the significance of elasticity of</p>

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12	II/II	SM402MS	Business Economics & Financial Analysis	<p>demand and its forecasting, law of demand and its exceptions and supply analysis.</p> <p>CO3: Understand production analysis function with different variables and cost analysis functions.</p> <p>CO4: To adopt the principles of accounting to record, classify and summarize various transactions in books of accounts for preparation of final accounts.</p> <p>CO5: Understand the Ratio analysis to give an idea about financial forecasting, financial planning, controlling and decision making.</p> <p>CO6: Understand the implementation of different structures of markets covering how price-output is determined under different market structures.</p>
13	II/II	CS403PC	Operating Systems	<p>CO1: Describe operating system goals and functions.</p> <p>CO2: Get the knowledge of process, various CPU scheduling algorithms and synchronization.</p> <p>CO3: Analyze the methods for handling deadlocks.</p> <p>CO4: Understand the memory management and several page replacement algorithms.</p> <p>CO5: Classify the storage management and file system implementation.</p> <p>CO6: Express the various system protection methods.</p>
14	II/II	CS404PC	Database Management Systems	<p>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.</p> <p>CO2: Explain the concepts of relational data model, entity-relationship model and relational database design.</p> <p>CO3: Apply relational algebra and calculus, understands the use of sql and learns sql syntax.</p> <p>CO4: Develop and improve database design by normalization.</p> <p>CO5: Define transaction and understand its properties. Learns techniques for controlling the consequences of concurrent data access.</p> <p>CO6: Describe basic database storage structures and access techniques: file and page organisations, index methods including B tree and Hashing.</p>
15	II/II	CS405PC	Java Programming	<p>CO1: Analyze Object Oriented Programming Concepts.</p> <p>CO2: Develop the Abstract Classes and know the importance of the Inheritance, Encapsulation and Polymorphism.</p> <p>CO3: Implementing interfaces and creating packages and create files and directories using g Java I/O Streams.</p> <p>CO4: Get the importance of Exception handling and knowledge of multithreading and java collection classes concepts.</p> <p>CO5: Design web applications by using applets and swings.</p>


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				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/DDDL 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. 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

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				Personal Liberty under Article 21.
20	III/I	CS501PC	Formal Languages & Automata Theory	CO1: Understand the basic properties of formal languages and grammars.
				CO2: Differentiate regular, context-free and recursively enumerable languages.
				CO3: Make grammars to produce strings from a specific language.
				CO4: Acquire concepts relating to the theory of computation and computational models including decidability and intractability.
21	III/I	CS502PC	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.
22	III/I	CS503PC	Computer Networks	CO1: Gain the knowledge of the basic computer network technology.
				CO2: Gain the knowledge of the functions of each layer in the OSI and TCP/IP reference model.
				CO3: Obtain the skills of subnetting and routing mechanisms.
				CO4: Familiarity with the essential protocols of computer networks, and how they can be applied in network design and implementation.
				CO5: Analyze Application Layer.
				CO6: Analyze transport Layer.
23	III/I	CS504PC	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.
24	III/I	CS515PE	Principles of Programming Languages	CO1: Explain the basics of PPL.
				CO2: Analyze different types of data types in PPL.
				CO3: Familiarity with subprograms and blocks.
				CO4: Explain about abstract data types.
				CO5: Understand the process of concurrency.
				CO6: Differentiate Functional Programming languages, Logical Programming language and scripting language.

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25	III/I	Computer Graphics	CS521PE	CO1: Understand output primitives , polygon filling.
				CO2: Explain about 2-D geometrical transforms and 2-D viewing.
				CO3: Analyze 3-D object representation.
				CO4: Understand basic Illumination methods.
				CO5: Explain about 3-D geometrical transforms and 3-D viewing.
				CO6: Design computer animations.
26	III/I	CS505PC	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.
27	III/I	CS506PC	Computer Networks & Web Technologies Lab	CO1: Implement data link layer framing methods.
				CO2: Analyze error detection and error correction codes.
				CO3: Implement and analyze routing and congestion issues in network design.
				CO4: Implement Encoding and Decoding techniques used in presentation layer.
				CO5: To be able to work with different network tools.
28	III/I	EN508HS	Advanced 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.
29	III/I	MC510	Intellectual Property Rights	CO1: Analyze different types of intellectual property.
				CO2: Express function of trademarks.
				CO3: Understand law of copy rights.
				CO4: Understand law of patents.
				CO5: Explain trade secrets.

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				<p>CO6: Understand the development of intellectual property.</p>
30	III/II	CS601PC	Machine Learning	<p>CO1: Understand perspectives and issues in machine learning and decision tree learning.</p>
				<p>CO2: Understand artificial neural network problem and evaluation hypotheses.</p>
				<p>CO3: Explain Baysean learning.</p>
				<p>CO4: Differentiate computational learning and instance based learning.</p>
				<p>CO5: Describe Genetic algorithms.</p>
				<p>CO6: Analyze different analytical learning approaches.</p>
31	III/II	CS602PC	Compiler Design	<p>CO1: Describe structure of a compiler and basics of programming languages.</p>
				<p>CO2: Design Lexical analyzer generator by using regular expressions and finite automata.</p>
				<p>CO3: Design and implement LL and LR parsers and use YACC Tool for developing a parser.</p>
				<p>CO4: Explain the applications of SDT and different types of intermediate-code generation.</p>
				<p>CO5: Identify the storage organization used to support the run-time environment of a program and effectively generate machine codes.</p>
				<p>CO6: Apply the several algorithms for collecting and optimizing the information using data flow analysis.</p>
32	III/II	CS603PC	Design and Analysis of Algorithms	<p>CO1: Analyze the Performance of an Algorithm.</p>
				<p>CO2: Solve the problems using divide and conquer approach.</p>
				<p>CO3: Develop constraint satisfied solutions using backtracking.</p>
				<p>CO4: Evaluate feasible solutions using Greedy method.</p>
				<p>CO5: Developing solutions to problems using dynamic programming.</p>
				<p>CO6: Define np hard and no complete problems.</p>
33	III/II	CS613PE	Scripting Languages	<p>CO1: Describe execution of Ruby programs, packages in Ruby.</p>
				<p>CO2: Explain about Ruby objects , Memory allocation , Embedding Ruby.</p>
				<p>CO3: Understand Perl basics , scripting language basics.</p>
				<p>CO4: Analyze Perl Names and values , control structures and arrays.</p>
				<p>CO5: Explain the advancements in Perl.</p>
				<p>CO6: Describe TCL structure, data structures.</p>
				<p>CO1: Understand complexity of Machine Learning algorithms and their limitations.</p>
				<p>CO2: Understand modern notions in data analysis-oriented computing.</p>

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34	III/II	CS604PC	Machine Learning Lab	<p>CO3: Applying common Machine Learning algorithms in practice and implementing their own.</p> <p>CO4: Perform experiments in Machine Learning using real-world data.</p>
35	III/II	CS605PC	Compiler Design Lab	<p>CO1: Develop client-server application using web technologies.</p> <p>CO2: Introduce server-side programming with Java servlets and JSP.</p> <p>CO3: Understand the various phases in the design of a compiler.</p> <p>CO4: Understand the design of top-down and bottom-up parsers.</p> <p>CO5: Understand syntax directed translation schemes.</p> <p>CO6: Introduce lex and yacc tools.</p>
36	III/II	CS623PE	Scripting Languages Lab	<p>CO1: Understand the differences between Scripting languages and programming languages.</p> <p>CO2: Gain fluency in Ruby.</p> <p>CO3: Gain fluency in Perl.</p> <p>CO4: Gain fluency in TCL.</p>
37	IV/I	CS701PC	Data Mining	<p>CO1: Analyze various data base techniques for data warehouse and able to perform OLAP Operations.</p> <p>CO2: Ability to perform the Pre-processing of data and apply mining techniques on data.</p> <p>CO3: Understand frequent set and apply association Rule on Data Set.</p> <p>CO4: Evaluate the data mining ask like Classification, Regression Clustering on large data set.</p> <p>CO5: Ability to solve real world Problems in business and scientific information using data mining.</p> <p>CO6: Ability to understand clustering Concepts in the real world and apply Various clustering techniques.</p>
38	IV/I	CS702PC	Principles of Programming Languages	<p>CO1: Express the important features of the Programming Languages.</p> <p>CO2: Develop the skills for expressing syntax and semantics in formal notation.</p> <p>CO3: Compare different Programming Domains.</p> <p>CO4: Choose Specific Programming Language for the Development of Specific Applications.</p> <p>CO5: Analyze the Importance of Implementation Process.</p> <p>CO6: Apply a suitable programming paradigm for a given computing application.</p>
39	IV/I	CS721PE	Python Programming	<p>CO1: Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.</p> <p>CO2: Demonstrate proficiency in handling Strings and File Systems.</p> <p>CO3: Create, run and manipulate Python Programs</p>

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				<p>using core data structures like Lists, Dictionaries and use Regular Expressions.</p> <p>CO4: Interpret the concepts of Object-Oriented Programming as used in Python.</p> <p>CO5: Implement exemplary applications related to Network Programming, Web Services and Databases in Python.</p>
40	IV/I	CS733PE	Machine Learning	<p>CO1: Understand perspectives and issues in machine learning and decision tree learning.</p> <p>CO2: Understand artificial neural network problem and evaluation hypotheses.</p> <p>CO3: Explain Baysean learning.</p> <p>CO4: Differentiate computational learning and instance based learning.</p> <p>CO5: Describe Genetic algorithms.</p> <p>CO6: Analyze different analytical learning approaches.</p>
41	IV/I	CS742PE	Cloud Computing	<p>CO1: Understand various service delivery models of a cloud computing architecture.</p> <p>CO2: understand the ways in which the cloud can be programmed and deployed.</p> <p>CO3: Understand cloud service providers.</p> <p>CO4: Describe cloud computing architecture and management.</p> <p>CO5: Describe cloud computing fundamentals.</p>
42	IV/I	CS703PC	Data Mining Lab	<p>CO1: Add mining algorithms as a component to the exiting tools.</p> <p>CO2: Apply mining techniques for realistic data.</p> <p>CO3: Perform the Pre-processing of data and apply mining techniques on data.</p> <p>CO4: Understand frequent set and apply association Rule on Data Set.</p> <p>CO5: Evaluate the data mining ask like Classification, Regression Clustering on large data set.</p> <p>CO6: Solve real world Problems in business and scientific information using data mining.</p>
43	IV/I	CS705PC	Industry Oriented Mini Project	<p>CO1: Apply fundamental concepts and methods of their engineering field.</p> <p>CO2: Use effectively oral, written and visual communication.</p> <p>CO3: Understand working with teams.</p>
44	IV/I	CS706PC	Seminar	<p>CO1: Understand advanced research methodologies in the field of computer science engineering.</p> <p>CO2: Demonstrate their understanding of discussions and spark further discussion.</p> <p>CO3: Identify understand and discuss current issues in the engineering field.</p>

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45	IV/II	CS712PE	Scripting Languages	CO1: Describe execution of Ruby programs, packages in Ruby.
				CO2: Explain about Ruby objects , Memory allocation , Embedding Ruby.
				CO3: Understand Perl basics , scripting language basics.
				CO4: Analyze Perl Names and values , control structures and arrays.
				CO5: Explain the advancements in Perl.
				CO6: Describe TCL structure, data structures.
46	IV/II	CS715PE	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.
47	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.

HOD/CSE

Head of the Department
Computer Science & Engg. Dept.
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