



Sri Devaraj Urs Educational Trust (R)

R.L. JALAPPA INSTITUTE OF TECHNOLOGY

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DODDABALLAPUR - 561 203. BENGALURU RURAL DISTRICT, KARNATAKA.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
Course Outcome Statement			
Course:	Code: 21MAT31 Course Name: Transform calculus, Fourier series & Numerical Techniques	Faculty: Aruna R & Prof. Madhu N R	Academic Year: 2022-23
	Statement		
Course 231.1	To solve ordinary differential equations using Laplace transform.		
Course 231.2	Demonstrate the Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.		
Course 231.3	To use Fourier transforms to analyze problems involving continuous-time signals and to apply Z-Transform techniques to solve difference equations		
Course 231.4	To solve mathematical models represented by initial or boundary value problems involving partial differential equation		
Course 231.5	Determine the extremals of functionals using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis.		
Course Outcome Statement			
Course:	Code: 21CS32 Course Name: Data Structures & Applications	Faculty: Prof. Vinay Kumar Y B	Academic Year: 2022-23
	Statement		
Course 232.1	Identify different data structures and their applications		
Course 232.2	Apply stack and queues in solving problems.		
Course 232.3	Demonstrate applications of linked list.		
Course 232.4	Explore the applications of trees and graphs to model and solve the real-world problem		
Course 232.5	Make use of Hashing techniques and resolve collisions during mapping of key value pairs		
Course Outcome Statement			
Course:	Code: 21CS33 Course Name: Analog & Digital Electronics	Faculty: Prof. Mamatha E	Academic Year: 2022-23
	Statement		
Course 233.1	Explain the use of photo electronics devices, 555 timer IC, Regulator ICs and uA741		
Course 233.2	Make use of simplifying techniques in the design of combinational circuits.		
Course 233.3	Illustrate combinational and sequential digital circuits		
Course 233.4	Demonstrate the use of flipflops and apply for registers		
Course 233.5	Design and test counters, Analog-to-Digital and Digital-to-Analog conversion techniques.		
Course Outcome Statement			
Course:	Code: 21CS34 Course Name: Computer Organization and Architecture	Faculty: Samhitha S B	Academic Year: 2022-23

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Statement			
Course 234.1	Explain the organization and architecture of computer systems with machine instructions and programs		
Course 234.2	Analyze the input/output devices communicating with computer system		
Course 234.3	Demonstrate the functions of different types of memory devices		
Course 234.4	Apply different data types on simple arithmetic and logical unit		
Course 234.5	Analyze the functions of basic processing unit, Parallel processing and pipelining		
Course Outcome Statement			
Course:	Code: 21CSL35 Course Name: OBJECT ORIENTED PROGRAMMING WITH JAVA	Faculty: Prof. Vinay Kumar Y B & Prof. Mamatha E	Academic Year: 2022-23
Statement			
Course 235.1	Use Eclipse/NetBeans IDE to design, develop, debug Java Projects.		
Course 235.2	Analyze the necessity for Object Oriented Programming paradigm over structured programming and become familiar with the fundamental concepts in OOP.		
Course 235.3	Demonstrate the ability to design and develop java programs, analyze, and interpret object oriented data and document results.		
Course 235.4	Apply the concepts of multiprogramming, exception/event handling, abstraction to develop robust programs.		

Course Outcome Statement			
Course:	Code: 21CS382 Course Name: Programming in C++	Faculty: S u m a N	Academic Year: 2022-23
Statement			
Course 237.1	Explain and design the solution to a problem using object-oriented programming concepts		
Course 237.2	Reuse the code with extensible Class types, User-defined operators and function Overloading.		
Course 237.3	Identify and explore the Performance analysis of I/O Streams		
Course 237.4	Implement the features of C++ including templates, exceptions and file handling for providing programmed solutions to complex problems		
Course Outcome Statement			
Course:	Code: 21CS41 MATHEMATICAL FOUNDATIONS FOR COMPUTING	Faculty: Prof. Meenakshi H & Prof. Shashidhar S N	Academic Year: 2022-23
Statement			
Course 241.1	Apply the concepts of logic for effective computation and relating problems in the Engineering domain.		
Course 241.2	Analyze the concepts of functions and relations to various fields of Engineering. Comprehend the concepts of Graph Theory for various applications of Computational sciences.		
Course 241.3	Apply discrete and continuous probability distributions in analysing the probability models arising in the engineering field.		
Course 241.4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data.		
Course 241.5	Construct joint probability distributions and demonstrate the validity of testing the hypothesis.		


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Course Outcome Statement			
Course:	Code: 21CS42 Course Name: DESIGN AND ANALYSIS OF ALGORITHMS	Faculty: Prof. Suma N & Prof. Iliyaz Pasha M	Academic Year: 2022-23
Statement			
Course 242.1	Analyze the performance of the algorithms, state the efficiency using asymptotic notations and analyze mathematically the complexity of the algorithm.		
Course 242.2	Apply divide and conquer approaches and decrease and conquer approaches in solving the problems analyze the same		
Course 242.3	Apply the appropriate algorithmic design technique like greedy method, transform and conquer approaches and compare the efficiency of algorithms to solve the given problem.		
Course 242.4	Apply and analyze dynamic programming approaches to solve some problems. and improve an algorithm time efficiency by sacrificing space.		
Course 242.5	Apply and analyze backtracking, branch and bound methods and to describe P, NP and NPCComplete problems.		
Course Outcome Statement			
Course:	Code:21CS43 Course Name: Microcontroller Embedded Systems	Faculty: Prof. Pooja B M & Prof. Anand Reddy G M	Academic Year: 2022-23
Statement			
Course 243.1	Describe the ARM microcontroller's architectural features and program module.		
Course 243.2	Apply the knowledge gained from programming on ARM to different applications		
Course 243.3	Explain C-Compilers and optimization		
Course 243.4	Program the basic hardware components and their application selection method.		
Course 243.5	Demonstrate the need for a real-time operating system for embedded system applications.		
Course Outcome Statement			
Course:	Code: 21CS44 Course Name: Operating Systems	Faculty: Prof. Rekha M S & Prof. Samhitha S B	Academic Year: 2022-23
Statement			
Course 244.1	Demonstrate the need for OS and different types of OS		
Course 244.2	Apply suitable techniques for management of different resources		
Course 244.3	Use processor, memory, storage and file system commands		
Course 244.4	Realize the different concepts of OS in platform of usage through case studies		
Course Outcome Statement			


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Course:	Code: 21CSL46 Course Name: Python programming Laboratory	Faculty: Prof. Vinay Kumar Y B & Dr. Murali G	Academic Year: 2022-23
	Statement		
Course 246.1	Demonstrate proficiency in handling of loops and creation of functions.		
Course 246.2	Identify the methods to create and manipulate lists, tuples and dictionaries.		
Course 246.3	Discover the commonly used operations involving regular expressions and file system.		
Course 246.4	Interpret the concepts of Object-Oriented Programming as used in Python.		
Course 246.5	Determine the need for scraping websites and working with PDF, JSON and other file formats.		
	Course Outcome Statement		
Course:	Code: 21CSL481 Course Name: WEB PROGRAMMING Laboratory	Faculty: Prof. Vinay Kumar Y B & Prof. Yashwantha N	Academic Year: 2022-23
	Statement		
Course 248_1.1	Describe the fundamentals of web and concept of HTML		
Course 248_1.2	Use the concepts of HTML, XHTML to construct the web pages.		
Course 248_1.3	Interpret CSS for dynamic documents.		
Course 248_1.4	Evaluate different concepts of JavaScript & Construct dynamic documents.		
Course 248_1.5	Design a small project with JavaScript and XHTML		
	Course Outcome Statement		
Course:	Code: 21UH49 Course Name: Universal Human Values	Faculty: Prof. Rekha M S	Academic Year: 2022-23
	Statement		
Course 248_2.1	Understand and analyze the fundamentals of human values, self-exploration, continuous happiness and prosperity.		
Course 248_2.2	Evaluate coexistence of the "I" with the body		
Course 248_2.3	Identify and evaluate the responsibility of harmony in family, society and universal order.		
Course 248_2.4	Understand and associate the holistic perception of harmony at all levels of existence.		
Course 248_2.5	Identify and develop appropriate technologies and management patterns for friendly and eco-friendly production systems.		
	Course Outcome Statement		
Course:	Code: 18CS51 Course Name: MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY	Faculty: Prof. Sunil Kumar K & Prof. Lokesh Yadav B R	Academic Year: 2022-23
	Statement		

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Course 251.1	Explain the basic concepts of management, planning, Organizing, Staffing, entrepreneur, IPRs
Course 251.2	Apply the knowledge of leadership styles, motivation theories, communications, Coordination and controlling methods
Course 251.3	Demonstrate Effective presentation on the new ideas, Prepare a project report based on guidelines of the planning commission by utilizing the resources available effectively through ERP.
Course 251.4	Explain the IPRs and institutional support in Micro and Small Enterprises as per the Indian Industrial Policy 2007.

Course Outcome Statement

Course:	Code:18CS52	Course Name: Computer Networks and Security	Faculty: Prof. Rekha M S	Academic Year: 2022-23
	Statement			
Course 252.1	Explain principles of application layer protocols			
Course 252.2	Identify UDP or TCP transmissions based on application characteristics			
Course 252.3	Explain key parameters of router and IP routing and analyze how transport layer provides services relying on network layer services			
Course 252.4	Explain the cryptographic algorithms such as DES, AES, RSA and key exchanges			
Course 252.5	Describe multimedia networking applications and Network Management			


Course Outcome Statement

Course:	Code: 18CS53	Course Name: Database Management Systems	Faculty: Prof. Pooja B M & Prof. Praveen S R	Academic Year: 2022-23
	Statement			
Course 253.1	Identify, analyze and define database objects, enforce integrity constraints on a database using RDBMS			
Course 253.2	Use Structured Query Language (SQL) for database manipulation.			
Course 253.3	Use Normalization techniques to design database			
Course 253.4	Use transaction processing for database.			

Course Outcome Statement

Course:	Code: 18CS54	Course Name: AUTOMATA THEORY AND COMPUTABILITY	Faculty: Prof. Shankar N B	Academic Year: 2022-23
	Statement			
Course 254.1	Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation			
Course 254.2	Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).			
Course 254.3	Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers.			
Course 254.4	Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.			
Course 254.5	Classify a problem with respect to different models of Computation.			

Course Outcome Statement


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Course:	Code: 18CS55 Course Name: Application development using Python	Faculty: Prof. Deepak B L & Dr. Murali G	Academic Year: 2022-23
	Statement		
Course 255.1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.		
Course 255.2	Identify the methods to create and manipulate lists, tuples and dictionaries.		
Course 255.3	Discover the commonly used operations involving regular expressions and file systems.		
Course 255.4	Interpret the concepts of Object-Oriented Programming as used in Python		
Course 255.5	Determine the need for scraping websites and working with CSV, JSON and other file formats.		
	Course Outcome Statement		
Course:	Code: 18CS56 Course Name: UNIX Programming	Faculty: Prof. Manjunatha B N	Academic Year: 2022-23
	Statement		
Course 256.1	Explain Unix Architecture, File system and use of Basic Commands		
Course 256.2	Describe different Unix File API's & their working process.		
Course 256.3	Apply Unix IPC Methods.		
Course 256.4	Explain an application/service over a Unix system.		
	Course Outcome Statement		
Course:	Code: 18CSL57 Course Name: Computer Networks Laboratory	Faculty: Prof. Manjunatha B N & Prof. Rekha M S	Academic Year: 2022-23
	Statement		
Course 257.1	Analyze and Compare various networking protocols.		
Course 257.2	Demonstrate the working of different concepts of networking.		
Course 257.3	Implement, analyze and evaluate networking protocols in NS2 / NS3 and JAVA programming language		
	Course Outcome Statement		
Course:	Code: 18CSL58 Course Name: DBMS Laboratory with mini project	Faculty: Prof. Pooja B M & Prof. Praveen S R	Academic Year: 2022-23
	Statement		
Course 258.1	Create, Update and query on the database		
Course 258.2	Demonstrate the working of different concepts of DBMS		
Course 258.3	Implement, analyze and evaluate the project developed for an application.		

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Course Outcome Statement			
Course:	Code:18CS61 Course Name: System Software and Compilers	Faculty: Prof. Suma N & Prof. Anand Reddy G M	Academic Year: 2022-23
Statement			
Course 361.1	Exploit the pass1 and pass2 assembler algorithms to generate object programs for SIC and SIC/XE machines		
Course 361.2	Identify the functioning of a Compiler & design lex/YACC programs using RE		
Course 361.3	Describe Context free grammar concepts & design a Parser for a given grammar using Top down and bottom-up parsing		
Course 361.4	Describe various Optimization techniques, Code generation techniques on given Intermediate code.		
Course 361.5	Use visualization tools for lex, YACC, Parse tree & Top down parsing		
Course Outcome Statement			
Course:	Code:18CS62 Course Name: Computer Graphics and Visualization	Faculty: Prof. Basavaraj S Pol & Dr. Manjunatha B N	Academic Year: 2022-23
Statement			
Course 362.1	Design and Implementation of 2D graphics primitives and attributes.		
Course 362.2	Illustrate Geometric transformations on both 2D and 3D objects.		
Course 362.3	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models.		
Course 362.4	Decide suitable hardware and software for developing graphics packages using OpenGL.		
Course Outcome Statement			
Course:	Code:18CS63 Course Name: Web Technology and its applications	Faculty: Prof. Narendra N & Prof. Praveen S R	Academic Year: 2022-23
Statement			
Course 363.1	Explain overview of HTML, semantic structure of HTML documents, elements of HTML5, how to create HTML tables and forms syntax of CSS and text styling using CSS to improve the accessibility of		
Course 363.2	Know and apply the role of client side and server side scripting language, syntactic elements of JavaScript and PHP with examples		
Course 363.3	Creation and Usage of PHP arrays, operations on text files, PHP classes design modular and reusable code using Unified Modeling Language(UML)		
Course 363.4	Examine the problem of state in web applications and solution available in HTTP Learn advanced client side scripting then design and build efficient scripts using javascript framework jQuery and BACKBONE creation of XML and JSON web services which is a data interchange format		
Course 363.5	Acquire the knowledge and implement the concepts in mini projects		

Course Outcome Statement			
Course:	Code:18CS64 Course Name: Cloud Computing and its Applications	Faculty: Prof. Shankar N B & Prof. Manju Bhargavi	Academic Year: 2022-23


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Statement			
Course 364_3.1	Explain cloud computing, virtualization and classify services of cloud computing		
Course 364_3.2	Illustrate architecture and programming in cloud		
Course 364_3.3	Describe the platforms for development of cloud applications and list the application of cloud		
Course Outcome Statement			
Course:	Code:18CSMP68 Course Name: Mobile Application Development	Faculty: Prof. Iliyaz Pasha M & Prof. Vinay Kumar Y B	Academic Year: 2022-23
Statement			
Course 365_1.1	Create, test and debug Android application by setting up Android development environment		
Course 365_1.2	Implement adaptive, responsive user interfaces that work across a wide range of devices		
Course 365_1.3	Infer long running tasks and background work in Android applications.		
Course 365_1.4	Demonstrate methods in storing, sharing and retrieving data in Android applications		
Course 365_1.5	Infer the role of permissions and security for Android applications		
Course Outcome Statement			
Course:	Code:18CSL66 Course Name: System Software Laboratory	Faculty: Prof. Praveen S R & Prof. Suma N	Academic Year: 2022-23
Statement			
Course 366.1	Implement and demonstrate Lexer's and Parser's		
Course 366.2	Implement parsing techniques like predictive parsing, operator precedence & intermediate code generation for grammar		
Course 366.3	Evaluate different algorithms required for management, scheduling, allocation and communication used in operating system		
Course Outcome Statement			
Course:	Code:18CSL67 Course Name: Computer Graphics Laboratory with mini project	Prof. Manjunatha B N & Prof. Basavaraj S Pol	Academic Year: 2022-23
Statement			
Course 367.1	Apply the concepts of computer graphics		
Course 367.2	Implement computer graphics applications using OpenGL		
Course 367.3	Animate real world problems using OpenGL		
Course Outcome Statement			
Course:	Code:18CS71 Course Name: Artificial Intelligence & Machine Learning	Faculty: Prof. Veena K	Academic Year: 2022-23
Statement			

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Course 471.1	Appraise the theory of Artificial Intelligence and Machine Learning
Course 471.2	Illustrate the working of Artificial Intelligence and Machine Learning Algorithms
Course 471.3	Demonstrate the Applications of Artificial Intelligence and Machine Learning


Course Outcome Statement			
Course:	Code:18CS72 Course Name: Big Data Analytics	Faculty: Prof. Basavaraj S Pol	Academic Year: 2022-23
Statement			
Course 472.1	Explain fundamentals of Big Data analytics		
Course 472.2	Investigate Hadoop framework and Hadoop Distributed File system		
Course 472.3	Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data		
Course 472.4	Demonstrate the MapReduce programming model to process the big data along with Hadoop tools.		
Course 472.5	Use Machine Learning algorithms for real world big data. Analyze web contents and Social Networks to provide analytics with relevant visualization tools.		

Course Outcome Statement			
Course:	Code: 18CS733 Course Name: Advanced Computer Architectures	Faculty: P r o f . Anand Reddy G M	Academic Year: 2022-23
Statement			
Course 473_4.1	Explain the concepts of parallel computing and hardware technologies		
Course 473_4.2	Compare and contrast the parallel architectures		
Course 473_4.3	Illustrate the parallel programming concepts		

Course Outcome Statement			
Course:	Code:18CS745 Course Name: RPA DESIGN AND DEVELOPMENT	Faculty: Prof. Iliyaz Pasha M	Academic Year: 2022-23
Statement			
Course 474_5.1	Explain the basic concepts of RPA		
Course 474_5.2	Describe various components and platforms of RPA		
Course 474_5.3	Describe the different types of variables, control flow and data manipulation techniques		
Course 474_5.4	Explain various control techniques and OCR in RPA		
Course 474_5.5	Describe various types and strategies to handle exceptions		

Course Outcome Statement			
Course:	Code:18CSL76 Course Name: AI & ML Lab	Faculty: Prof. Veena K & Prof. Iliyaz Pasha M	Academic Year: 2022-23
Statement			
Course 476.1	Implement and demonstrate AI and ML algorithms.		
Course 476.2	Evaluate different algorithms		

Course Outcome Statement			
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Course:	Code:18CSP77 Course Name: Project Phase I	Faculty: Dr. Murali G & Prof. Darshan A	Academic Year: 2022-23
Statement			
Course 477.1	Apply the knowledge of mathematics, science and engineering fundamentals to the solution of complex engineering problems.		
Course 477.2	Implement practically ideas/real time industrial problems/ current application of respective/ multidisciplinary engineering bbranches.		
Course 477.3	Apply project managementskill to design system/product by taking into consideration different issues suchas safety,ethics, social,health, legal, cultural and cost standards		
Course Outcome Statement			
Course:	Code:18CS81 Course Name: Internet of Things and Applications	Faculty: Prof. Shankar N B & Prof. Praveen S R	Academic Year: 2022-23
Statement			
Course 481.1	Decipher the effect and difficulties presented by IoT networks prompting new structural models.		
Course 481.2	Investigate the arrangement of shrewd articles and the advancements to interface them to the organization.		
Course 481.3	Assess the job of IoT conventions for effective organization correspondence.		
Course 481.4	Elaborate the requirement for Data Analytics and Security in IoT.		
Course 481.5	Illustrate different sensor innovations for detecting genuine substances and distinguish the uses of IoT in Industry.		
Course Outcome Statement			
Course:	Code:18CS82 Course Name: Storage Area Network	Faculty: Prof. Veena K	Academic Year: 2022-23
Statement			
Course 482.1	Identify key challenges in managing information and different storage networking technologies and virtualization		
Course 482.2	Explain components and implementation of NAS		
Course 482.3	Describe CAS architecture and types of archives and forms of virtualization		
Course 482.4	Illustrate the storage infrastructure and management activities Prof. Veena K		
Course Outcome Statement			
Course:	Code:18CSP83 Course Name: Project Work-Phase II	Faculty: Dr. Murali G & Prof. Darshan A	Academic Year: 2022-23
Statement			
Course 483.1	Use different modern tools and equipments to develop the project.		
Course 483.2	Participate in National/International paper presentation/publication/projectcompetitionactivities.		
Course 483.3	Prepare project Report (proposals) and present their project work in English.		
Course Outcome Statement			
Course:	Code:18CSS84 Course Name: Technical Seminar	Faculty: Prof. M S Rekha	Academic Year: 2022-23

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Statement			
Course 484.1	To expose students to the real working environment and get acquainted with the organization structure and administrative functions,		
Course 484.2	To promote and develop presentation skills and impart a knowledgeable society.		
Course 484.3	To set the stage for future recruitment by potential employers.		
Course Outcome Statement			
Course:	Code:18CSI85 Course Name: Internship	Faculty: Prof. Shankar N B	Academic Year: 2022-23
Statement			
Course 485.1	Appraise the software project requirements and project management for industry-related tasks.		
Course 485.2	Able find solutions for complex real time problems by using engineering tools and techniques		
Course 485.3	Effectively work in teams to solve the problems.		

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