



# SHREE DEVI INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University & Recognized by AICTE)

**AIRPORT ROAD, KENJAR, MANGALORE – 574 142**

Phone: 0824 – 2254104 Website: [www.sdc.ac.in](http://www.sdc.ac.in), E-mail : [sdit\\_kenjar@rediffmail.com](mailto:sdit_kenjar@rediffmail.com)

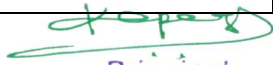
## Course Outcomes of Department of Computer Science and Engineering

### 2018 Scheme

<b>Course Name</b>	Transform Calculus, Fourier Series And Numerical Techniques.
<b>Course Code</b>	18MAT31
Course Outcomes (Cos): At the end of the course student will be able to:	
C201.1	Use Laplace transform and inverse Laplace transform in solving differential and integral equation arising in network analysis, control systems and other fields of engineering.
C201.2	Demonstrate Fourier series to study the behaviour of periodic functions and their applications in system communications, digital signal processing and field theory.
C201.3	Make use of Fourier transform and Z-transform to illustrate discrete/continuous function arising in wave and heat propagation, signals and systems.
C201.4	Solve first and second order ordinary differential equations arising in engineering problems using single step and multistep numerical methods.
C201.5	Determine the externals of functional using calculus of variations and solve problems arising in dynamics of rigid bodies and vibrational analysis.

<b>Course Name</b>	Data Structures and Application
<b>Course Code</b>	18CS32
Course Outcomes (Cos): At the end of the course student will be able to:	
C202.1	Acquire knowledge the basic data structures their implementation and application.
C202.2	Know the strength and weakness of different data structures.
C202.3	Identify and use the appropriate data structure in context of solution of given problem.
C202.4	Develop programming skills required to solve any given problem.

<b>Course Name</b>	Analog and Digital electronics
<b>Course Code</b>	18CS33
Course Outcomes (Cos): At the end of the course student will be able to:	
C203.1	Learning BJT biasing techniques. Designing and understanding the operation of analog circuits like Relaxation Oscillator, voltage regulators, Schmitt Trigger, timer IC and active filters.
C203.2	Explain the working of A/D and D/A converters and their applications.
C203.3	Use Karnaugh Map and Quine-McClusky methods to simply the Boolean expression and reduce the number of gates.

  
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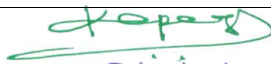
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C203.4	Understanding the operation and difference between the flip flops and latches, design and analyse the registers, counters.
C203.5	Learning the usage of the VHDL programming with examples.

<b>Course Name</b>	Computer Organizations
<b>Course Code</b>	18CS34
Course Outcomes (Cos): At the end of the course student will be able to:	
C204.1	Describe the architecture of the computers, its performance, memory operations.
C204.2	Explain interrupts and fundamental functioning of I/O operations.
C204.3	Explain the fundamental concepts related to RAM, ROM, cache memories and memory mapping technique.
C204.4	Understanding operations of Arithmetic Logic Unit (ALU).
C204.5	Understanding processing unit and pipelining concepts.

<b>Course Name</b>	Software Engineering
<b>Course Code</b>	18CS35
Course Outcomes (Cos): At the end of the course student will be able to:	
C205.1	Create a software system, process or component to fulfil requirements while taking into account practical limitations.
C205.2	Understanding object orientation development, Class modelling, Class concepts.
C205.3	Understanding different system models and knowing how to use UML for object oriented design.
C205.4	Understanding evolution of software and software testing techniques.
C205.5	Knowing about planning the project, project scheduling and how to manage the software.

<b>Course Name</b>	Discrete Mathematical Structures
<b>Course Code</b>	18CS36
Course Outcomes (Cos): At the end of the course student will be able to:	
C206.1	Understanding logic equivalence theorems, qualifiers and its definitions.
C206.2	Able to solve problems for discrete probability with the knowledge of principles of counting. Understanding mathematical induction technique to get solutions to problems.
C206.3	Should know how discrete structures are applied in various areas of computer science.
C206.4	Use principles of inclusion-exclusion to solve problems and knowing about linear and homogeneous Recurrence Relation.
C206.5	Define and understand sub graphs, routed trees, sorting, and prefix codes.

  
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<b>Course Name</b>	Analog and Digital Electronics Laboratory
<b>Course Code</b>	18CSL37
Course Outcomes (Cos): At the end of the course student will be able to:	
C207.1	Design, analyse and implement BJT common emitter voltage divider based amplifier, 555 timer in bread board and understanding the usage of CRO.
C207.2	Design and implement flip flops, latches and counters.
C207.3	Should know how to use Pspice and Multisim simulator for analog circuits.
C207.4	Able to use Xilinx simulator for VHDL coding.

<b>Course Name</b>	Data Structures Laboratory
<b>Course Code</b>	18CSL38
Course Outcomes (Cos): At the end of the course student will be able to:	
C208.1	Implement basic data structures such as arrays and linked list.
C208.2	Develop programs to demonstrate fundamental algorithmic problems including Tree and Graph traversals.
C208.3	Implement various searching and sorting algorithms.
C208.4	Develop programs to demonstrate the implementation of various operations on stack and queue.
C208.5	Identify the appropriate data structure for a given application.

<b>Course Name</b>	Constitution of India, Professional Ethics and Cyber Law
<b>Course Code</b>	18CPC39/49
Course Outcomes (Cos): At the end of the course student will be able to:	
C209.1	Know what is constitution and fundamental rights and duties as a citizen of India.
C209.2	Recognize the duties and professional ethics that engineers have.
C209.3	For cyber internet safety precautions, be aware of cybercrimes and laws.

<b>Course Name</b>	Vyavaharika Kannada (Kannada for Communication)
<b>Course Code</b>	18KVK39/49
Course Outcomes (Cos): At the end of the course student will be able to:	
C2181.1	Understand the grammar and vocabulary in Kannada language.
C2181.2	To develop the better communication skills.
C2181.3	Know about Kannada literature.

  
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<b>Course Name</b>	Aadalitha Kannada (Kannada for Administration)
<b>Course Code</b>	18KAK39/49
Course Outcomes (Cos): At the end of the course student will be able to:	
C2182.1	ಪದವಿ ವಿದ್ಯಾರ್ಥಿಗಳಾಗಿರು ವು ದರಿ ಂದ ಆಡಳಿತ ಕನ್ನಡದ ಪರಿಚಯ ಮಾಡಿಕೊಡು ವು. ದು.
C2182.2	ಕನ್ನಡ ಭಾಷಾ ಬರಹ ಮತ್ತು ರಚನೆ ಯಲ್ಲಿನ ನಿಯಮಗಳನ್ನು ಪರಿಚಯಿ ಸು ವು ದು.
C2182.3	ಸಾಮಾನ್ಯ ಅರ್ಜಿಗಳು ಸರ್ಕಾರಿ ಮತ್ತು ಅರೆ ಸರ್ಕಾರಿ ಪತ್ರವ್ಯವಹಾರದ ಬಗ್ಗೆ ಅರಿವು ಮೂ ಡಿಸು ವು ದು.
C2182.4	ಭಾಷಾಂತರ ಮತ್ತು ಪ್ರಬಂದ ರಚನೆ ಬಗ್ಗೆ ಆಸಕ್ತಿಮೂ ಡಿಸು ವು ದು.

<b>Course Name</b>	Complex Analysis, Probability and Statistical Methods
<b>Course Code</b>	18MAT41
Course Outcomes (Cos): At the end of the course student will be able to:	
C210.1	Use the concepts of analytic function and complex potentials to solve the problems arising in electromagnetic field theory.
C210.2	Utilize conformal transformation and complex integral arising in aerofoil theory, fluid flow visualization and image processing.
C210.3	Apply discrete and continuous probability distributions in analysing the probability models arising in engineering field.
C210.4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data.
C210.5	Construct joint probability distributions and demonstrate the validity of testing the hypothesis.

<b>Course Name</b>	Design and Analysis of Algorithm
<b>Course Code</b>	18CS42
Course Outcomes (Cos): At the end of the course student will be able to:	
C211.1	Learning the Storage area of Networks and security and advantages Of Storage Area Networks and its Applications on Network.
C211.2	Explaining of Fibre Channel with Example Data Transmission and Explaining the ISCSI and Components of ISCSI and Protocol.
C211.3	Explaining the ISCSI PDU and Explain the ISCSI Session and ISCSI Command sequencing.
C211.4	Explain Information availability and causes of Information Unavailability and Consequence of down time and Power path Features and Replication Technology.
C211.5	Study of Information security frame work and risk triad and Assets Threats Vulnerability and Replication Terminology and uses of local replicas.

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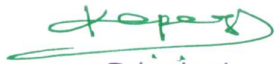
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<b>Course Name</b>	Operating System
<b>Course Code</b>	18CS43
Course Outcomes (Cos): At the end of the course student will be able to:	
C212.1	Demonstrate the importance of an operating system and the various types of operating systems.
C212.2	Use the appropriate techniques for resource management.
C212.3	Use the commands for processors, memory, storage, and file systems.
C212.4	Through case studies, realize the various concepts of operating systems in the platform of usage.

<b>Course Name</b>	Microcontroller and Embedded systems
<b>Course Code</b>	18CS44
Course Outcomes (Cos): At the end of the course student will be able to:	
C213.1	Give an explanation of the ARM microcontroller's architectural features and its instructions.
C213.2	Use the learned ARM programming skills in various applications.
C213.3	Design skills to interfacing different I/O devices to Microcontroller.
C213.4	Design and integrate hardware and software to implement the required embedded smart systems.
C213.5	To design the required embedded systems use ARM Microcontroller peripheral programming, embedded onboard and serial protocols.

<b>Course Name</b>	Object Oriented Concepts
<b>Course Code</b>	18CS45
Course Outcomes(COs): Students will be able to:	
C214.1	Explain the fundamental features of object-oriented concepts.
C214.2	Explain the fundamental features of JAVA and set up Java JDK environment to create, debug and run simple Java programs.
C214.3	Develop computer programs to solve real world problems using Exception Handling in Java.
C214.4	Create multi-threaded programs and event handling mechanisms to solve real world problems in Java.
C214.5	Develop simple GUI interfaces for a computer program to interact with users, and to understand the event-based GUI programming using applets and swings.

  
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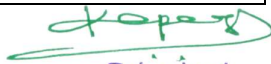
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<b>Course Name</b>	Data Communication
<b>Course Code</b>	18CS46
Course Outcomes (Cos): At the end of the course student will be able to:	
C215.1	Explain fundamental concepts of network topologies, data communications, IP protocols and OSI model. Describe data signals and data rate.
C215.2	Give detailed explanation of line coding, PCM and analog to digital conversion.
C215.3	Describing switched networks, spread spectrum in bandwidth utilization. Explain different methods in error correction and detection.
C215.4	Explain functioning of data link layers, network layer protocols.
C215.5	Knowing the theory concepts of wireless LAN's, Ethernet and IEEE 802.xx standards.

<b>Course Name</b>	Design and Analysis of Algorithm Laboratory
<b>Course Code</b>	18CSL47
Course Outcomes (Cos): At the end of the course student will be able to:	
C216.1	Understand data structures, object oriented concepts like class, object, polymorphism, inheritance and apply those concepts in java programming. Ability to write program using exception handling and multithreading concepts.
C216.2	Ability to apply sorting techniques like Quick sort, merge sort using JAVA programming for the given problem statement.
C216.3	Ability to understand and apply the dynamic programming methods.
C216.4	Design and write program in Java to know all Hamiltonian Cycles in a connected undirected Graph using backtracking technique.

<b>Course Name</b>	Microcontroller and Embedded Systems Laboratory
<b>Course Code</b>	18CSL48
Course Outcomes (Cos): At the end of the course student will be able to:	
C217.1	Write, simulate and test ARM programs adding, multiplying bit numbers, and counting number of ones and zeros using ARM7TDMI/LPC2148.
C217.2	It is important to have knowledge about ARM instruction sets.
C217.3	Understand interrupts and interfacing different I/O devices to Microcontroller.
C217.4	Know how to do the given lab practical's on an ARM7TDMI/LPC2148 evaluation board using evaluation version of Embedded 'C' & Keil Uvision-4 tool/compiler.

<b>Course Name</b>	Management And Entrepreneurship in IT Industry
<b>Course Code</b>	18MAT51

  
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Course Outcomes (Cos): At the end of the course student will be able to:	
C301.1	Understand the meaning, scope, development of management thoughts and to analyse the objectives of planning process, types of organization and staffing.
C301.2	Understand the meaning of directing, Leadership styles, motivation theories, communication and to establish controlling methods
C301.3	Understand the meaning and function of Entrepreneur, the role of Entrepreneur in the economic development and to identify business opportunities along with feasibility studies
C301.4	Understand the procedure to prepare project report and to study Enterprise Resource Planning.
C301.5	Understand the Micro and small enterprise and to Infer the importance of intellectual property rights and relate the institutional support.

<b>Course Name</b>	Computer Networks And Security
<b>Course Code</b>	18CS52
Course Outcomes (Cos): At the end of the course student will be able to:	
C302.1	Explain principles of application layer protocols
C302.2	Recognize transport layer services and infer UDP and TCP protocols
C302.3	Classify routers, IP and Routing Algorithms in network layer
C302.4	Understand the Wireless and Mobile Networks covering IEEE 802.11 Standard
C302.5	Describe Multimedia Networking and Network Management

<b>Course Name</b>	Database Management System
<b>Course Code</b>	18CS53
Course Outcomes (Cos): At the end of the course student will be able to:	
C303.1	Identify, analyze and define database objects, enforce integrity constraints on a database using RDBMS
C303.2	Use Structured Query Language (SQL) for database manipulation.
C303.3	Design and build simple database systems
C303.4	Develop application to interact with databases.
C303.5	Demonstrate the use of concurrency and transactions in database.

<b>Course Name</b>	Automata Theory And Computability
<b>Course Code</b>	18CS54
Course Outcomes (Cos): At the end of the course student will be able to:	
C304.1	Acquire fundamental understanding of the core concepts in automata theory and Theory of Computation
C304.2	Learn how to translate between different models of Computation (e.g., Deterministic and Non-deterministic and Software models).

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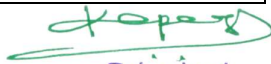
C304.3	Design Grammars and Automata (recognizers) for different language classes and become knowledgeable about restricted models of Computation (Regular, Context Free) and their relative powers.
C304.4	Develop skills in formal reasoning and reduction of a problem to a formal model, with an emphasis on semantic precision and conciseness.
C304.5	Classify a problem with respect to different models of Computation

<b>Course Name</b>	Application Development Using Python
<b>Course Code</b>	18CS55
Course Outcomes (Cos): At the end of the course student will be able to:	
C305.1	Demonstrate proficiency in handling of loops and creation of functions.
C305.2	Identify the methods to create and manipulate lists, tuples and dictionaries.
C305.3	Discover the commonly used operations involving regular expressions and file system.
C305.4	Interpret the concepts of Object-Oriented Programming as used in Python.
C305.5	Determine the need for scraping websites and working with CSV, JSON and other file formats

<b>Course Name</b>	Unix Programming
<b>Course Code</b>	18CS56
Course Outcomes (Cos): At the end of the course student will be able to:	
C306.1	Explain the file system, architecture and fundamental commands of Unix.
C306.2	Demonstrate different UNIX files and permissions
C306.3	Create Shell Scripts by demonstrating Shell programming.
C306.4	Unix System Calls are categorized, compared, and utilized.
C306.5	Analyze UNIX processes and its commands, develop Perl Script writing

<b>Course Name</b>	Computer Network Laboratory
<b>Course Code</b>	18CSL57
Course Outcomes (Cos): At the end of the course student will be able to:	
C307.1	Analyze and Compare various networking protocols.
C307.2	Demonstrate the working of different concepts of networking.
C307.3	Implement, analyze and evaluate networking protocols in NS2 / NS3 and JAVA programming

<b>Course Name</b>	DBMS Laboratory With Mini Project
<b>Course Code</b>	18CSL58
Course Outcomes (Cos): At the end of the course student will be able to:	

  
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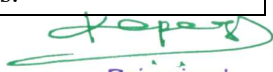
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C308.1	Understand the basic knowledge in database concepts, technology and to groom into well informed database application developers
C308.2	Strong practice in SQL programming through a variety of database problems.
C308.3	Able to demonstrate the working of different concepts of DBMS
C308.4	Implement, analyze and evaluate the project developed for an application

<b>Course Name</b>	Environmental Studies
<b>Course Code</b>	18CIV59
Course Outcomes (Cos): At the end of the course student will be able to:	
C309.1	Understand the principles of ecology and environmental issues that apply to air, land, and water issues on a global scale
C309.2	Develop critical thinking and/or observation skills, and apply them to the analysis of a problem or question related to the environment.
C309.3	Demonstrate ecology knowledge of a complex relationship between biotic and abiotic components.
C309.4	Apply their ecological knowledge to illustrate and graph a problem and describe the realities that managers face when dealing with complex issues.
C309.5	Analyze and evaluate strategies, technologies, and methods for sustainable management of environmental systems and for the remediation or restoration of degraded environments.

<b>Course Name</b>	System Software And Compilers
<b>Course Code</b>	18CS61
Course Outcomes (Cos): At the end of the course student will be able to:	
C309.1	Acquire understanding on how linker and loader create an executable program from an object module created by assembler and compiler.
C309.2	Convert given source program statement in assembly language to target code with respect to a simple architecture.
C309.3	Understand fundamentals of compiler and identify the relationships among different phases of the compiler.
C309.4	Understand the application of finite state machines, recursive descent, production rules, parsing, and language semantics.
C309.5	Able to write the code by using YACC and lex.

<b>Course Name</b>	Computer Graphics And Visualization
<b>Course Code</b>	18CS62
Course Outcomes (Cos): At the end of the course student will be able to:	
C310.1	Design and implement algorithms for 2D graphics primitives and attributes.
C310.2	Illustrate Geometric transformations on both 2D and 3D objects.

  
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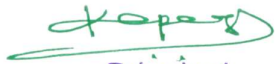
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C310.3	Apply concepts of clipping and visible surface detection in 2D and 3D viewing, and Illumination Models
C310.4	Decide suitable hardware and software for developing graphics packages using OpenGL
C310.5	Determine various inputs to the graphics system and user interactions with it.

<b>Course Name</b>	Web Technology And Its Applications
<b>Course Code</b>	18CS63
Course Outcomes (Cos): At the end of the course student will be able to:	
C311.1	Adapt HTML and CSS syntax and semantics to build web pages.
C311.2	Construct and visually format tables and forms using HTML and CSS
C311.3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
C311.4	Appraise the principles of object oriented development using PHP
C311.5	Inspect JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features.

<b>Course Name</b>	Data Mining And Data Warehousing
<b>Course Code</b>	18CS641
Course Outcomes (Cos): At the end of the course student will be able to:	
C3121.1	Understand data warehouse architecture and various tools to organize large database
C3121.2	Be familiar with KDD Process to find interesting hidden patterns from data warehouse.
C3121.3	Analyse the frequent patterns using association analysis algorithm like Apriori and FP growth
C3121.4	Develop the ability to classify the data using different classification algorithm
C3121.5	Understand different clustering techniques and compare various classifiers

<b>Course Name</b>	System Software Laboratory
<b>Course Code</b>	18CSL66
Course Outcomes (Cos): At the end of the course student will be able to:	
C314.1	Implement and demonstrate LEX Tool.
C314.2	Implement and demonstrate YACC Tool.
C314.3	Analyse and evaluate different algorithms for CPU scheduling.
C314.4	Evaluate different algorithms required for Memory management, allocation and communication used in operating system.

  
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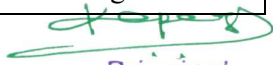
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<b>Course Name</b>	Computer Graphics Laboratory With Mini Project
<b>Course Code</b>	18CSL67
Course Outcomes (Cos): At the end of the course student will be able to:	
C315.1	Apply line drawing, line clipping algorithm.
C314.2	Design and apply 2D and 3D graphics and transformations
C315.3	Apply lighting and shading techniques in computer graphics
C315.4	Create interactive graphics applications using OpenGL

<b>Course Name</b>	Mobile Application Development
<b>Course Code</b>	18CSL68
Course Outcomes (Cos): At the end of the course student will be able to:	
C316.1	Create, test and debug Android application by setting up Android development environment.
C316.2	Implement adaptive, responsive user interfaces that work across a wide range of devices.
C316.3	Infer long running tasks and background work in Android applications.
C316.4	Demonstrate methods in storing, sharing and retrieving data in Android applications.
C316.5	Infer the role of permissions and security for Android applications.

<b>Course Name</b>	Artificial Intelligence And Machine Learning
<b>Course Code</b>	18CS71
Course Outcomes (Cos): At the end of the course student will be able to:	
C401.1	Understand the theory of Artificial Intelligence and Machine Learning and heuristic search technique to design solution to complex Engineering
C401.2	Understand the knowledge representation issues and concept learning
C401.3	Illustrate the working of AI and ML Algorithm by applying decision tree and Artificial Neural Network
C401.4	Understand Bayes theorem, Naïve Bayes classifier and Bayesian Belief Network to solve complex problems
C401.5	Apply the concept of k-Nearest Neighbour and Reinforcement learning to demonstrate the application of AL and ML

<b>Course Name</b>	Big Data And Analytics
<b>Course Code</b>	18CS72
Course Outcomes (Cos): At the end of the course student will be able to:	
C402.1	Understand fundamentals of Big Data analytics.
C402.2	Investigate Hadoop framework and Hadoop Distributed File system.
C402.3	Illustrate the concepts of NoSQL using MongoDB and Cassandra for Big Data.

  
Principal  
SHREE DEVI INSTITUTE OF TECHNOLOGY  
MANGALORE



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(Affiliated to Visvesvaraya Technological University & Recognized by AICTE)

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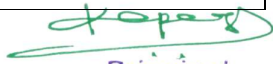
C402.4	Demonstrate the MapReduce programming model to process the big data along with Hadoop
C402.5	Use Machine Learning algorithms for real world big data.
C402.6	Analyse web contents and Social Networks to provide analytics with relevant visualization tools

<b>Course Name</b>	Software Architecture And Design Patterns
<b>Course Code</b>	18CS731
Course Outcomes (Cos): At the end of the course student will be able to:	
C4031.1	Design and implement codes with higher performance and lower complexity
C4031.2	To Understand the common structural design patterns and be able to select and apply the suitable patterns in specific contexts.
C4031.3	To Understand the common behavioural design patterns and be able to select and apply the suitable patterns in specific contexts.
C4031.4	To explore the appropriate patterns for design problems in real world.
C4031.5	Experience core design principles and be able to assess the quality of a design in object oriented systems.
C4031.6	To Understand the common structural design patterns and be able to select and apply the suitable patterns in specific contexts.

<b>Course Name</b>	Network Management
<b>Course Code</b>	18CS742
Course Outcomes (Cos): At the end of the course student will be able to:	
C4042.1	Analyze the issues and challenges pertaining to management of emerging network technologies such as wired/wireless networks and high-speed internets
C4042.2	Apply network management standards to manage practical networks
C4042.3	Formulate possible approaches for managing OSI network model.
C4042.4	Use on SNMP for managing the network
C4042.5	Use RMON for monitoring the behavior of the network
C4042.6	Identify the various components of network and formulate the scheme for the managing them

<b>Course Name</b>	Artificial Intelligence And Machine Learning Laboratory
<b>Course Code</b>	18CSL76
Course Outcomes (Cos): At the end of the course student will be able to:	
C406.1	Implement and demonstrate AI and ML algorithms.
C406.2	Evaluate different algorithms

<b>Course Name</b>	Internet of Things
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<b>Course Code</b>	18CS81
Course Outcomes (Cos): At the end of the course student will be able to:	
C409.1	Interpret the impact and challenges posed by IoT networks leading to new architectural models.
C409.2	Compare and contrast the deployment of smart objects and the technologies to connect them to network.
C409.3	Appraise the role of IoT protocols for efficient network communication.
C409.4	Elaborate the need for Data Analytics and Security in IoT.
C409.5	Illustrate different sensor technologies for sensing real world entities and identify the applications of IoT in industry.

<b>Course Name</b>	Storage Area Networks
<b>Course Code</b>	18CS822
Course Outcomes (Cos): At the end of the course student will be able to:	
C4102.1	Identify key challenges in managing information and analyze different storage networking technologies and virtualization
C4102.2	Explain components and the implementation of NAS
C4102.3	Describe CAS architecture and types of archives and forms of virtualization
C4102.4	Illustrate the storage infrastructure and management activities

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