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THE OXFORD COLLEGE OF ENGINEERING
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Course Name	Data Structures & Applications Analysis & Digital Electronics
Course Code	18CS32/202
Course Outcome #	Course Outcome
C202.1	Use different types of basic data structures, operations and algorithms for solving problem
C202.2	Apply searching and sorting operations on files and use stack and queue concepts for various problem
C202.3	Use stack, Queue, Lists in problem solving
C202.4	Implement all data structures-Trees and Graphs in a high-level language for problem solving.
C202.5	Apply appropriate Non Linear data structures -tree /graph for solving computing problems.
C202.6	Find suitable data structure during application development/Problem Solving
Course Name	Analysis & Digital Electronics
Course Code	18CS33/203
Course Outcome #	Course Outcome
C203.1	Design and analyze application of analog circuits using photo devices, timer IC, power supply and regulator IC andop-amp.
C203.2	Explain the basic principles of A/D and D/A conversion circuits and develop thesame.
C203.3	Simplify digital circuits using Karnaugh Map , and Quine-McCluskyMethods
C203.4	Explain Gates and flip flops and make us in designing different data processing circuits, registers and counters and compare the types.
C203.5	Develop simple HDL programs.
Course Name	Computer Organization
Course Code	18CS34/204
Course Outcome #	Course Outcome
C204.1	Infer the basics of computer organization structure, its operations, machine instructions and addressing modes.
C204.2	Illustrate the different ways of communication with I/O devices, concept of interrupts, Direct Memory access.
C204.3	Identify the needs of interface circuits, Buses in computers and different types of memories.
C204.4	Make use of different types of memories based on its speed, size and cost.
C204.5	Apply various arithmetic and logical operations on integer and floating point numbers, hard wired control, microcontroller's instructions and embedded systems.

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Course Name	Software Engineering
Course Code	18CS35//205
Course Outcome #	**Course Outcome**
C205.1	Design a software system, component, or process to meet desired needs within realistic constraints.
C205.2	Assess professional and ethical responsibility
C205.3	Function on multi-disciplinary teams
C205.4	Use the techniques, skills, and modern engineering tools necessary for engineering practice
C205.5	Analyze, design, implement, verify, validate, implement, apply, and maintain software systems or parts of software systems

Course Name	Analysis & Digital Electronics Laboratory
Course Code	18CSL37/207
Course Outcome #	**Course Outcome**
C207.1	Use appropriate design equations / methods to design the givencircuit.
C207.2	Examine and verify the design of both analog and digital circuits usingsimulators.
C207.3	Make us of electronic components, ICs, instruments and tools for design and testing ofcircuits for the given the appropriate inputs.
C207.4	Compile a laboratory journal which includes;aim, tool/instruments/software/components used, design equations used and designs, schematics, program listing, procedure followed, relevant theory, results as graphs and tables, interpreting and concluding the findings.
C207.5	Make use of simulation package to design circuits.

Course Name	Data Structures & Applications Laboratory
Course Code	18CSL38/208
Course Outcome #	**Course Outcome**
C208.1	Analyze and Compare various linear and non-linear data structures
C208.2	Code, debug and demonstrate the working nature of different types of data structures and their applications
C208.3	Implement, analyze and evaluate the searching and sorting algorithms
C208.4	Choose the appropriate data structure for solving real world problems
C208.5	Compare graphs, trees and their applications.

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Course Name	Design and Analysis of Algorithms
Course Code	18CS42/212
Course Outcome #	Course Outcome
212.1	Evaluate the time and space complexity of problems like searching, sorting and analyze and compare the rank and the order of growth of recursive and non recursive growth o algorithm.
212.2	Estimate the computational complexity of different algorithms like quick sort, merge sort, binary search.
212.3	Devise an algorithm using appropriate design strategies for problem solving.
212.4	Ability to analyze and apply greedy and transform and conquer approach for solving problem.
212.5	Describe computational solution to well known problems like searching.
212.6	To have the capability to choose relevant problem solving technique to efficiently address the real time problem.
Course Name	Operating Systems
Course Code	18CS43/213
Course Outcome #	Course Outcome
213.1	Demonstrate need for OS and different types of OS.
213.2	Apply suitable techniques for management of different resources.
213.3	Use processor, memory, storage and file system commands.
213.4	Realize the different concepts of OS in platform of usage through case studies.
213.5	Be familiar with protection and security mechanisms
213.6	Be familiar with various types of operating system including UNIX
Course Name	Microprocessors and Microcontrollers
Course Code	18CS44/214
Course Outcome #	Course Outcome
214.1	Describe the architectural features and instructions of ARM microcontroller
214.2	Apply the knowledge gained for Programming ARM for different applications.
214.3	Interface external devices and I/O with ARM microcontroller.
214.4	Interpret the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.
214.5	Develop the hardware /software co-design and firmware design approaches.
214.6	Demonstrate the need of real time operating system for embedded system applications

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Course Name	Object Oriented Concepts
Course Code	18CS45/215

Course Outcome #	Course Outcome
215.1	Explain the object-oriented concepts and JAVA.
215.2	Develop computer programs to solve real world problems in Java.
215.3	Develop simple GUI interfaces for a computer program to interact with users
215.4	Understand the event based GUI handling principles using Applets
215.5	Develop a simple web page using applet class

Course Name	Data Communication
Course Code	18CS46/216

Course Outcome #	Course Outcome
216.1	Explain the various components of data communication.
216.2	Explain the fundamentals of digital communication and switching.
216.3	Compare and contrast data link layer protocols.
216.4	Summarize IEEE 802.xxstandards
216.5	Understand the working of 802.11, Cellular Telephony, Bluetooth, IPv4 and IPv6 Addresses.

Course Name	Design and Analysis of Algorithms Laboratory
Course Code	18CSL47/217

Course Outcome #	Course Outcome
217.1	Demonstrate the object oriented concepts of JAVA programming language.
217.2	Construct the JAVA program by using the approach of Divide and Conquer such as Merge Sort, Quick Sort.
217.3	Make use of the Algorithms using Greedy method to develop the JAVA program such as Knapsack and finding the minimum cost of a spanning tree.
217.4	Apply Dynamic Programming technique to build the JAVA program such as All pairs shortest path and Travelling sales person (TSP) problem.
217.5	Choose the Backtracking Algorithms to model JAVA program such as Sum of subset problem and Hamiltonian cycles.

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Course Name	Microprocessors and Microcontrollers Laboratory
Course Code	18CSL48/218

Course Outcome #	Course Outcome
218.1	Demonstrate the use of 8086 instructions set and the directives.
218.2	Apply knowledge of 8086 instructions set and the directives to do Assembly Language Programs.
218.3	Build interfaces for x86 Microprocessors.
218.4	Make use of the knowledge of ARM Processor instructions set to do ALP code.
218.5	Construct interfaces for ARM Microcontrollers.

Course Name	Management & Entrepreneurship for IT Industry
Course Code	18CS51/301

Course Outcome #	Course Outcome
C301.1	Define management, organization, entrepreneur, planning, staffing, ERP and outline their importance in entrepreneurship
C301.2	Utilize the resources available effectively through ERP
C301.3	Make use of IPRs and institutional support in entrepreneurship
C301.4	Enhancing the economic environment for business.
C301.5	Empathizing the implications of economic policy to society as a whole.

Course Name	Computer Networks
Course Code	18CS52/302

Course Outcome #	Course Outcome
C302.1	Explain principles of application layer protocols
C302.2	Outline transport layer services and infer UDP and TCP protocols
C302.3	Classify routers, IP and Routing Algorithms in network layer
C302.4	Understand the concept of Network security, Firewall
C302.5	Describe Multimedia Networking and Network Management

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Course Name	Database Management System
Course Code	18CS53/303

Course Outcome #	Course Outcome
C303.1	Develop conceptual understanding of database management system
C303.2	Identify, analyze and define database objects, enforce integrity constraints on a database using RDBMS.
C303.3	Use Structured Query Language (SQL) for database manipulation.
C303.4	Design and build simple database systems
C303.5	Develop application to interact with databases.

Course Name	Automata Theory Computability
Course Code	18CS54//304

Course Outcome #	Course Outcome
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).
C304.3	Design Grammars and automata for different Language, classes and become knowledgeable about restricted models of computation 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

Course Name	Application Development Using Python
Course Code	18CS55/305

Course Outcome #	Course Outcome
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

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Course Name	Unix Programming
Course Code	18CS56/306

Course Outcome #	Course Outcome
C306.1	Explain Unix Architecture, File system and use of Basic Commands
C306.2	Illustrate Shell Programming and to write Shell Scripts
C306.3	Categorize, compare and make use of Unix System Calls
C306.4	Build an application/service over a Unix System.
C306.5	Ability to program the basic UNIX OS concepts such as process groups, signals, running programs, process control, address space, user and kernel mode system calls

Course Name	Computer Networks Laboratory
Course Code	18CSL57/307

Course Outcome #	Course Outcome
C307.1	Utilize socket program using TCP & UDP
C307.2	Develop security algorithm to provide network security
C307.3	Make use of CRC to develop the code for Data link layer protocol
C307.4	Develop the performances of Routing protocol
C307.5	Build Wired and Wireless network using network simulator

Course Name	Database Management System Laboratory
Course Code	18CSL58/308

Course Outcome #	Course Outcome
C308.1	Ability to understand how the tables are created.
C308.2	Ability to understand how to extract the data from more than 1 table by performing join operations.
C308.3	Ability to Create the tables by properly specifying the primary keys and the foreign keys
C308.4	Able to Populate and query a database using SQL DML/DDL commands
C308.5	Able to query multiple tables using joins and aggregate functions Demonstrate on-delete-cascade and on-update-cascade concepts

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Course Name	File Structures
Course Code	18IS61/311
Course Outcome #	Course Outcome
311.1	Explain the importance of file structures in the Data Storage and Manipulation.
311.2	Choose appropriate file structure for storage representation.
311.3	Know the importance of data compression.
311.4	Identify a suitable sorting technique to arrange the data.
311.5	Show how the File Structure approach differs from the data base approach.
311.6	Select suitable indexing and hashing techniques for better performance to a given problem.

Course Name	Software Testing
Course Code	18IS62/312
Course Outcome #	Course Outcome
312.1	Discuss test cases for any given problem
312.2	Compare the different testing techniques
312.3	Illustrate the problem into suitable testing model
312.4	Understand the appropriate technique for the design of flow graphs.
312.5	Apply software Testing technique in a commercial environment and assess the adequacy of test suites control flow, data flow and program mutation.
312.6	Generate Test Cases from software requirements using various test processes for continuous quality improvement.

Course Name	Web Technology And Its Applications
Course Code	18CS63/313
Course Outcome #	Course Outcome
313.1	Adapt HTML and CSS syntax and semantics to build web pages.
313.2	Construct and visually format tables and forms using HTML and CSS
313.3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically
313.4	Appraise the principles of object oriented development using PHP
313.5	Inspect JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features

Course Name	Cloud Computing And Its Applications
Course Code	18CS642/314
Course Outcome #	Course Outcome
314.1	Explain cloud computing, virtualization and classify services of cloud computing
314.2	Illustrate architecture and programming in cloud
314.3	Describe the platforms for development of cloud applications and List the application of cloud.
314.4	Explain Cloud platform used in industry
314.5	To summarize the applications of cloud.

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Course Name	Mobile Application Development
Course Code	18CSMP68/315
Course Outcome #	Course Outcome
315.1	Create, test and debug Android application by setting up Android development environment
315.2	Implement adaptive, responsive user interfaces that work across a wide range of devices.
315.3	Infer long running tasks and background work in Android applications
315.4	Demonstrate methods in storing, sharing and retrieving data in Android applications.
315.5	Infer the role of permissions and security for Android applications.
Course Name	Software Testing Laboratory
Course Code	18ISL67/316
Course Outcome #	Course Outcome
316.1	List out the requirements for the given problem
316.2	Design and implement the solution for given problem in any programming language(C,C++,JAVA)
316.3	Derive test cases for any given problem
316.4	Apply the appropriate technique for the design of flow graph.
316.5	Create appropriate document for the software artifact
Course Name	Web Technology Laboratory With Mini Project/ 17CSL77
Course Code	18ISL68/318
Course Outcome #	Course Outcome
318.1	Implement operations related to files
318.2	Apply the concepts of file system to produce the given application.
318.3	Evaluate performance of various file systems on given parameters.
318.4	Identify a suitable sorting technique to arrange the data.
318.5	Select suitable indexing and hashing techniques for better performance to a given problem.

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Course Name Course Code	Web Technology And Its Applications 17CS71/401
Course Outcome #	**Course Outcome**
C401.1	Adapt HTML and CSS syntax and semantics to build web pages
C401.2	Construct and visually format tables and forms using HTML and CSS
C401.3	Develop Client-Side Scripts using JavaScript and Server-Side Scripts using PHP to generate and display the contents dynamically.
C401.4	Appraise the principles of object oriented development using PHP
C401.5	Inspect JavaScript frameworks like jQuery and Backbone which facilitates developer to focus on core features
Course Name	**Software Architecture And Design Patterns**
Course code	**17IS72/402**
Course Outcome #	**Course Outcome**
C402.1	Design and implement codes with higher performance and lower
C402.2	Be aware of code qualities needed to keep code flexible
C402.3	Experience core design principles and be able to assess the quality of a design with respect to these principles
C402.4	Capable of applying these principles in the design of object oriented systems.
C402.5	Demonstrate an understanding of a range of design patterns. Be capable of comprehending a design presented using this vocabulary.
C402.6	Be able to select and apply suitable patterns in specific contexts
Course Name	**MACHINE LEARNING**
Course Code	**17CS73/403**
Course Outcome #	**Course Outcome**
C403.1	Identify the problems for machine learning.
C403.2	select the either supervised unsupersvised or reinforcement learning
C403.3	Explain theory of probability and statistics related to machine learning
C403.4	Investigate concept learning, ANN, Bayes classifier,
C403.5	Investigate k nearest neighbor, Q
Course Name	**Cloud Computing And Its Applications**
Course code	**17CS742/404**
C404.1	Explain cloud computing, virtualization and classify services of cloud computing
C404.2	Illustrate architecture and programming in cloud
C404.3	Describe the platforms for development of cloud applications and List the application of cloud.
C404.4	Explain Cloud platform used in industry
C404.5	To summarize the applications of cloud.
C404.6	Contrast various programming models used in cloud computing Cloud Computing Architecture

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Course Name	Storage Area Networks
Course Code	17CS754/405

Course Outcome #	Course Outcome
C405.1	Illustrate the Storage Architectures
C405.2	Apply RAID Array on Disk Performance
C405.3	Compare NAS, iSCSI ,FCIP
C405.4	Identify different types of Storage Virtualization and CAS
C405.5	Classify backup, recovery, disaster recovery, business continuity, and replication
C405.6	Acquire knowledge of local and remote replication

Course Name	Machine Learning Laboratory17CSL76//406

Course Outcome #	Course Outcome
C406.1	Understand the implementation procedures for the machine learning algorithms.
C406.2	Design Java programs for various Learning algorithms
C406.3	Design Python programs for various Learning algorithms
C406.4	Apply appropriate data sets to the Machine Learning algorithms
C406.5	Identify and apply Machine Learning algorithms to solve real world problems.
C406.6	Apply appropriate algorithm for searching-A*/Ao*

Course Name	Web Technology Laboratory With Mini Project
Course Code	17CSL77/407

Course Outcome #	Course Outcome
C407.1	Design and develop dynamic web pages with good aesthetic sense of designing and latest technical know-how's.
C407.2	Develop dynamic web pages using XHTML, CSS, and JavaScript.
C407.3	Design and develop dynamic web pages using PHP
C407.4	Have a good understanding of Web Application Terminologies, Internet Tools other web services
C407.5	Learn how to link and publish web sites

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Course Name	Internet Of Things Technology
Course Code	17CS81/411

Course Outcome #	Course Outcome
411.1	Interpret the impact and challenges posed by IoT networks leading to new architectural models
411.2	Compare and contrast the deployment of smart objects and the technologies to connect them to network.
411.3	Appraise the role of IoT protocols for efficient network communication. • Elaborate the need for Data Analytics and Security in IoT.
411.4	Elaborate the need for Data Analytics and Security in IoT.
411.5	Illustrate different sensor technologies for sensing real world entities.
411.6	Identify the applications of IoT in Industry.

Course Name	Big Data Analytics
Course Code	17CS82/412

Course Outcome #	Course Outcome
412.1	Ability to Master the concepts of HDFS and MapReduce framework
412.2	Ability to Investigate Hadoop related tools for Big Data Analytics
412.3	Ability to perform basic Hadoop Administration
412.4	Ability to Recognize the role of Business Intelligence, Data warehousing and Visualization in decision making
412.5	Capable to Infer the importance of core data mining techniques for data analytics
412.6	Capable to Compare and contrast different Text Mining Techniques

Course Name	System Modeling And Simulation
Course Code	17CS834/413

Course Outcome #	Course Outcome
413.1	Explain the system concept and apply functional modeling method to model the activities of a static system
413.2	Describe the behavior of a dynamic system.
413.3	Create an analogous model for a dynamic system
413.4	Simulate the operation of a dynamic system
413.5	Make improvement according to the simulation results

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Course Name	Internship
Course Code	17IS84

Course Outcome #	Course Outcome
414.1	Understanding the modern tools used in the field of Computer science andengineering for product development.
414.2	Demonstrate ethical conduct and professional accountability while workingin a team for the benefit of society.
414.3	Understand the resources requirement and planning to facilitate the projectsuccess.
414.4	Understand the planning to facilitate the project success.

Course Name	PROJECT WORK PHASE 1 & 2
Course Code	17ISP85

Course Outcome #	Course Outcome
415.1	Examine the problem, formulation and solution of the selected project
415.2	Develop solutions for contemporary problems using modern tools forsustainable development.
413.3	Demonstrate ethical and professional sustainability while working in ateam and communicate effectively for the benefit of the society.
415.4	Understand the engineering, finance and management principles.

Course Name	SEMINAR
Course Code	17ISS86

Course Outcome #	Course Outcome
416.1	Identify recent technical topics from interested domains.
416.2	Analyze the applicability of modern software tools and technology.
416.3	Develop Presentation and Communication skills.
416.4	Develop Technical report preparation skills.