

RAMCO INSTITUTE OF TECHNOLOGY
(Approved by AICTE, Affiliated by Anna University Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS
REGULATION-2021

Course Outcome

SEMESTER I	
Course Code and Course Name	Course Outcomes(CO) After the completion of the course ,The students will be able to
HS3152 - Professional English – I	CO1: communicate clearly both in written and oral forms using appropriate vocabulary and comprehend written text to make inferences. CO2: Speak persuasively in academic/work contexts and write biographical details and technical documents cohesively, coherently, and flawlessly using appropriate words. CO3: Read, write and speak effectively in a variety of professional and social settings. CO4: Comprehend descriptive, narrative, expository and interpretive texts and write using creative, critical, analytical, and evaluative methods. CO5: Understand and respond to different spoken and written discourses/excerpts in different accents and write different genres of text adopting various writing strategies.
MA3151- Matrices and Calculus	CO1: Use the matrix algebra methods for solving practical problems. CO2: Apply differential calculus tools in solving various application problems. CO3: Use differential calculus ideas on several variable functions. CO4: Apply different methods of integration in solving practical problems. CO5: Apply multiple integral ideas in solving areas, volumes and other practical problems.
PH3151 - Engineering Physics	CO1: Understand the importance of mechanics CO2: Express their knowledge in electromagnetic waves CO3: Demonstrate a strong foundational knowledge in oscillations, optics and lasers. CO4: Understand the importance of quantum physics. CO5: Comprehend and apply quantum mechanical principles towards the formation of energy bands.

<p align="center">CY3151 - Engineering Chemistry</p>	<p>CO1: Illustrate the importance of water quality parameters, water treatment methods and boiler troubles for domestic and industrial use.</p> <p>CO2: Explain the types of nanomaterials, synthesis and its applications in modern day devices.</p> <p>CO3: Apply the use of phase rule in metallurgy and describe the basics of composites and its industrial applications.</p> <p>CO4: Articulate the fuel types, synthesis and its combustion characteristics.</p> <p>CO5: Portray the working principle of alternate energy resources, storage devices and their application in electric vehicles and the impacts of carbon footprint.</p>
<p align="center">GE3151- Problem Solving and Python Programming</p>	<p>CO1: Develop algorithmic solutions to simple computational problems</p> <p>CO2: Develop and execute simple Python programs.</p> <p>CO3: Apply control structures, functions and string to write simple program for solving problems.</p> <p>CO4: Use Python data structures - lists, tuples, dictionaries to represent complex data.</p> <p>CO5: Illustrate read and write data from/to files in Python programs.</p>
<p>SEMESTER II</p>	
<p align="center">HS3252 Professional English</p>	<p>CO1: Compare and contrast products and ideas in technical texts and write relevant texts.</p> <p>CO2: Identify and report cause and effects in events, industrial processes through technical texts.</p> <p>CO3: Analyse problems in order to arrive at feasible solutions and communicate them in the written format.</p> <p>CO4: Present their ideas and opinions in a planned and logical manner.</p> <p>CO5: Draft effective resumes in the context of job search.</p> <p>CO6: Detect paralinguistic cues such as postures, gestures, facial expressions, and eye contact.</p>
<p align="center">MA3251 Statistics and Numerical Methods</p>	<p>CO1: This course aims at providing the necessary basic concepts of a few statistical and numerical methods and give procedures for solving numerically different kinds of problems occurring in engineering and technology.</p> <p>CO2: To acquaint the knowledge of testing of hypothesis for small and large samples which plays an important role in real life problems.</p> <p>CO3: To introduce the basic concepts of solving algebraic and transcendental equations.</p> <p>CO4: To introduce the numerical techniques of interpolation in various intervals and numerical techniques of differentiation and integration which plays an important role in engineering and technology disciplines.</p> <p>CO5: To acquaint the knowledge of various techniques and methods of solving ordinary differential equations.</p>
<p align="center">PH3256 Physics for Information Science</p>	<p>CO1: Extend the knowledge on classical and quantum electron theories, and energy band structures.</p>

	<p>CO2: Acquire knowledge on basics of semiconductor physics and its applications in various devices.</p> <p>CO3: Express the knowledge on magnetic properties of materials and their applications in data storage.</p> <p>CO4: Associate the necessary understanding on the functioning of optical materials for optoelectronics.</p> <p>CO5:Elaborate the basics of quantum structures and their applications and basics of quantum computing.</p>
<p>BE3251 Basic Electrical and Electronics Engineering</p>	<p>CO1: Determine various electrical parameters of basic electric circuits</p> <p>CO2: Illustrate the construction, working principle and applications of various electrical machines.</p> <p>CO3: Interpret the characteristics of various analog electronic devices.</p> <p>CO4: Explain the basic concepts of digital electronics.</p> <p>CO5: Describe the fundamental elements and working of various measuring instruments.</p>
<p>GE3251 Engineering Graphics</p>	<p>CO1: Construct the conic sectional curves, cycloidal and involute curves.</p> <p>CO2: Solve practical problems involving projection of lines.</p> <p>CO3: Construct the projection of simple solids and free hand sketches of multiple views from pictorial views of objects.</p> <p>CO4: Sketch the Section of Solids and Development of lateral Surfaces of solids.</p> <p>CO5: Illustrate the isometric and perspective projections of simple solids</p> <p>CO6: Sketch the real components of machine / building / circuit drawing based on the basic concept learned from the topics.</p>
<p>AD3251 Data Structures Design</p>	<p>CO1: Recognize abstract data types and its features</p> <p>CO2: Design and Implement linear data structures for different applications</p> <p>CO3: Implement Sorting, Searching and hashing techniques for given problems</p> <p>CO4: Apply an efficient tree structures to perform searching, indexing and sorting</p> <p>CO5:Use efficient graph algorithms to solve graph problems</p>

SEMESTER III

<p>MA3354 Discrete Mathematics</p>	<p>CO1: Apply the concepts needed to test the logic of a program.</p> <p>CO2: Apply the knowledge of the counting principles to solve problems in Computer Science and Data Science Engineering.</p> <p>CO3: Apply the knowledge of Graphs and graph terminology in the Engineering subjects like Computer Networks, Data Structures etc.</p>
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	<p>CO4: Apply the concepts and properties of algebraic structures in the Engineering subjects like Network Security, Cryptography etc.</p> <p>CO5: Apply the concepts and significance of lattices and Boolean algebra in Computer science and Data science engineering.</p> <p>CO6:Examine the Isomorphism between the Graphs using MATLAB</p>
<p>CS3351 Digital Principles and Computer Organization</p>	<p>CO1: Design various combinational circuits using logic gates.</p> <p>CO2: Design sequential circuits and analyze the design procedures.</p> <p>CO3: Illustrate the fundamentals of computer systems and analyze the execution of an instruction.</p> <p>CO4: Analyze different types of control design and identify hazards.</p> <p>CO5:Identify the characteristics of various memory systems and I/O communication.</p>
<p>CW3301 Fundamentals of Economics</p>	<p>CO 1: To study the elasticity in demand and supply and understand the economic efficiency</p> <p>CO 2: To discuss the supporting of price, income and substitution effects in the consumers and producer's surplus.</p> <p>CO 3: To compare the equilibrium of a firm under perfect competition, monopoly, and monopolistic competition.</p> <p>CO 4: To study the concepts of demand for money and supply of money with an appropriate model in macroeconomic analysis.</p> <p>CO 5: To examine and evaluate the problems of voluntary and involuntary unemployment</p>
<p>CS3391 Object Oriented Programming</p>	<p>CO1: Apply the concepts of classes and objects to solve simple problems</p> <p>CO2: Develop programs using inheritance, packages and interfaces</p> <p>CO3: Make use of exception handling mechanism and multithreading to solve real world problems</p> <p>CO4: Develop Java applications with I/O streams and generics classes</p> <p>CO5:Develop GUI based applications using JavaFX components.</p>
<p>AD3351 Design and Analysis of Algorithms</p>	<p>CO1: Analyze the efficiency of recursive and non-recursive algorithms mathematically</p> <p>CO2: Analyze the efficiency of brute force, divide and conquer, decrease and conquer, Transform and conquer algorithmic techniques</p> <p>CO3: Implement and analyze the problems using dynamic programming and greedy algorithmic techniques</p> <p>CO4: Solve the problems using iterative improvement techniques for optimization.</p>

	<p>CO5: Compute the limitations of algorithmic power and solve the problems using backtracking and branch and bound techniques.</p>
<p>AD3491 Fundamentals of Data Science and Analytics</p>	<p>CO1: Elucidate the pipeline of data analytics process for any data science application CO2: Describe, Visualize and examine the data of real world problems using descriptive analytics techniques. CO3: Perform statistical inferences from data CO4: Analyze the variance in the data for any real world data science problems. CO5: Build models for predictive analytics</p>
<p>CS3381 Object Oriented Programming Laboratory</p>	<p>CO1: The students will be able to design and develop java programs using object oriented programming concepts. CO2: The students will be able to develop simple applications using object oriented concepts such as package, exceptions. CO3: The students will be able to design applications using multithreading, file processing and generics concepts. CO4: The students will be able to create GUIs and event driven programming applications for real world problems. CO5: The students will be able to implement mini projects using Java concepts.</p>
<p>CW3311 Business Communication Laboratory I</p>	<p>CO1: Speak fluently in English without errors and present themselves as effective communicators. CO2: Use business vocabulary and take part comfortably in business conversations in English. CO3: Draft letters and reports with appropriate formats and choice of words. CO4: Perform well in team and group, resolve conflicts in workplaces and acquire leadership skills. CO5: Understand women in all spheres and cultural behaviours of the people and approach them with positive human values.</p>

SEMESTER IV

<p>MA3391 Probability and Statistics</p>	<p>CO1: Use the fundamental knowledge of the concepts of probability and standard distributions which can describe real life phenomenon. CO2: Apply the basic concepts of one and two dimensional random variables in engineering applications. CO3: Estimate the parameter using the concept of statistical estimation theory in real life problems. CO4: Apply the testing of hypothesis using statistical non-parametric test in real life problems. CO5: Find the nature of the manufacturing process from the given data using the concept of statistical quality control in various engineering applications.</p>
<p>CS3492 Database Management Systems</p>	<p>CO1: The students will be able to construct SQL Queries using relational algebra. CO2: The students will be able to design database using ER model and normalize the database. CO3: The students will be able to apply concurrency control to handle transaction processing and maintain consistency of the database. CO4: The students will be able to compare and contrast various indexing strategies in database systems. CO5: The students will be able to appraise how advanced databases differ from relational databases and find a suitable database for the given requirement.</p>
<p>AL3452 Operating systems</p>	<p>CO1: The students will be able to comprehend the concepts of operating systems in various computing systems CO2: The students will be able to analyze various scheduling algorithms and process synchronization, deadlock, prevention and avoidance algorithms CO3: The students will be able to compare and contrast various memory management schemes for memory allocation CO4: The students will be able to elucidate the functionality of file systems I/O systems, and Virtualization CO5: The students will be able to compare iOS and Android Operating Systems CO6: The students will be able to implement process scheduling, memory management, and file allocation techniques using system programming</p>
<p>CW3401 Introduction to Business Systems</p>	<p>After completion of the course, it is expected that the students will be able to: CO1: To know the business environment and management functions CO2: To understand various types of business organization CO3: To recognize the functions of business systems CO4: To strengthen business quality, basic business skills and measuring business performance CO5: To apply Enterprise application and Business application with Business Intelligence in e-business for marketing and sales.</p>

<p>AL3451 Machine Learning</p>	<p>After completion of the course, it is expected that the students will be able to:</p> <p>CO1: Analyze basic learning problems with hypothesis and version spaces and understand the features of machine learning.</p> <p>CO2: Characterize the supervised machine learning algorithms and familiarize the various algorithms like regression and classification.</p> <p>CO3: Identify the various algorithms of ensemble techniques and unsupervised learning.</p> <p>CO4: Elaborate the concept of neural networks for learning linear and non-linear activation functions.</p> <p>CO5: Evaluate the Machine Learning experiments and algorithms based on corresponding metrics identified.</p>
<p>GE3451 Environmental Sciences and Sustainability</p>	<p>CO1: Illustrate the importance of environment, biodiversity and its impact on human life.</p> <p>CO2: Correlate the causes, effect and control measures of various types of pollution and its case studies.</p> <p>CO3: Educate the availability of renewable energy resources and scientific concepts/principles behind them.</p> <p>CO4: Articulate the concept of sustainability and management.</p> <p>CO5: Gain knowledge on sustainability practices and socio-economical change.</p> <p>CO6: Analyze the integrated themes of biodiversity, pollution control, waste management, energy resources, and sustainable approaches.</p>
<p>CS3481 Database Management Systems Laboratory</p>	<p>CO1: The students will be able to create relational databases with different types of key constraints using DDL, DML commands.</p> <p>CO2: The students will be able to construct simple and complex SQL queries using DML and DCL commands and perform join operations.</p> <p>CO3: The students will be able to use advanced features such as stored procedures, triggers, views and index for database tables.</p> <p>CO4: The students will be able to build an XML database and validate with meta-data.</p> <p>CO5: The students will be able to develop and manipulate data using NOSQL database.</p>
<p>AD3461 Machine Laboratory</p>	<p>After completion of the course, it is expected that the students will be able to:</p> <p>CO1: Apply algorithms like FIND-S and Candidate Elimination for selecting the appropriate features for analysis.</p> <p>CO2: Implement supervised machine learning algorithms on appropriate datasets and evaluate the performance.</p> <p>CO3: Apply unsupervised machine learning algorithms on standard WHO datasets and evaluate the performance.</p> <p>CO4: Build the graph based learning models for Iris data sets.</p> <p>CO5: Assess and compare the performance of different ML algorithms and select the suitable one based on the application.</p>

<p>CW3411 Business Communication Laboratory II</p>	<p>CO1: Speak fluently in English with proper sentence construction and present themselves as effective communicators. CO2: Use appropriate vocabulary and understand the correct usage of words such as nouns, verbs and adjectives in communication. CO3: Deliver public speeches according to the needs of the audience and demonstrate positive body language during presentations. CO4: Work effectively in teams by understanding team motivation, multicultural team activities and conflict resolution. CO5: Set realistic goals for personal and professional growth and develop leadership qualities.</p>
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SEMESTER V

<p>CS3691 Embedded Systems and IoT</p>	<p>After completion of the course, the students will be able to: CO1: Understand the internal architecture of embedded processors, including core components such as registers, memory, and execution units. CO2: Apply knowledge to interface processors with I/O devices and manage real-time systems. CO3: Design embedded applications for real-world challenges. CO4: Demonstrate IoT communication models, APIs, and protocols (Bluetooth, WiFi, ZigBee, GPS, GSM). CO5: Design IoT applications using Arduino/Raspberry Pi /open platform.</p>
<p>CW3501 Fundamentals of Management</p>	<p>CO1: The students will be able to understand the basic concepts and principles of management. CO2: The students will be able to explain the history, evolution, and various schools of management thought. CO3: The students will be able to apply the core functions of management in real-world business situations. CO4: The students will be able to analyze various issues and problems handled by modern managers. CO5: The students will be able to evaluate the different challenges faced by managers in today's dynamic and competitive environment.</p>

<p>CW3551</p> <p>Data and Information Security</p>	<p>CO1: Explains the basics of data and information security.</p> <p>CO2: Discuss about security investigation such as legal, ethical and professional issue and security policies</p> <p>CO3: Apply the various digital signature schemes to simulate different applications</p> <p>CO4: Explain various architecture and operational techniques of Email and IP security</p> <p>CO5:Apply the Web security protocols for E-Commerce applications</p>
<p>CCS335</p> <p>Cloud Computing</p>	<p>CO1: The students will be able to recognize and classify the various design challenges in the cloud</p> <p>CO2: The students will be able to implement the concept of virtualization and its various types</p> <p>CO3: The students will be able to experiment with virtualization of hardware resources and Docker</p> <p>CO4: The students will be able to develop and deploy services on the cloud and set up a cloud environment</p> <p>CO5:The students will be able to recognize the various security challenges in the cloud environment</p>
<p>CCW332</p> <p>Digital Marketing</p>	<p>CO1: Understand and use the key elements of a digital marketing strategy and its components and content marketing.</p> <p>CO2: Use digital marketing tools like SEO and SEM to solve business challenges and enhance online visibility</p> <p>CO3: Understand the E-Mail Marketing and Mobile Marketing, enabling them to create and implement successful campaigns and engaging audiences.</p> <p>CO4: Equipped with the ability to strategically leverage social media marketing to foster brand conversations, deepen engagement</p> <p>CO5:Analyze various digital marketing channels, Ad-words and understand recent trends shaping the digital marketing landscape.</p>

<p>MX3084</p> <p>Disaster Risk Reduction and Management</p>	<p>CO1: To define the concepts of Disaster, Vulnerability and Disaster Risk reduction (DRR)</p> <p>CO2: To explain Hazards, Vulnerability and Disaster Risk Assessment prevention and risk reduction</p> <p>CO3: To develop disaster response skills by adopting relevant tools and technology</p> <p>CO4: To extend the awareness of institutional processes for Disaster response in the country</p> <p>CO5: To Develop rudimentary ability to respond to their surroundings with potential Disaster response in areas where they live, with due sensitivity</p>
<p>CW3007</p> <p>IT Project Management(Honours)</p>	<p>The students will be able to</p> <p>CO1:Learn the basic concepts of managing IT projects to apply on real world problems</p> <p>CO2:Creating a detailed plan that outlines the steps and resources necessary to achieve the project's objectives, including identifying the project's scope</p> <p>CO3:Elaborate the resource allocation ideas and project planning techniques to ensure a successful project completion.</p> <p>CO4:Enhance the ability to understand the software quality management standards, creating guidelines, and improving processes throughout the software development lifecycle to ensure software meets your quality criteria.</p> <p>CO5:Analyse the concepts of Budgeting and Scheduling</p>
<p>CCS369</p> <p>Text and Speech Analysis(Honours)</p>	<p>After completion of the course, it is expected that the students will be able to:</p> <p>CO1: Apply Natural Language Processing techniques for Text processing.</p> <p>CO2: Apply various classification algorithms to text documents.</p> <p>CO3: Build Question answering systems, chatbots and dialogue systems.</p>

CO4: Apply Text to Speech Synthesis techniques for Text and Speech Processing Techniques.

CO5: Apply Artificial Intelligence, deep learning models and Natural Language Processing for building automatic speech recognition systems.

SEMESTER VI

CW3601 Business Analytics

CO1: Develop analytical models to solve real-world business problems and derive actionable insights

CO2: Identify relevant data sources to extract meaningful Business Intelligence (BI) from operational workflows

CO3: Create forecasting models for demand, sales trends, risk, and market behavior to enhance decision-making.

CO4: Use HR and Supply Chain Analytics to optimize workforce planning, recruitment, and supply chain operations.

CO5: Apply marketing and sales analytics to optimize strategies, sales planning, and customer behavior analysis.

CS356 Object Oriented Software Engineering

CO1: Understand Software Engineering fundamentals, analyzing various process models, and exploring agility principles. It focuses on the Agile process, particularly Extreme Programming (XP) practices like iteration and test-driven development, with practical insights gained through case studies to apply Agile methodologies effectively.

CO2: Focuses on mastering requirement analysis, creating Software Requirement Specifications, formal system specifications, modeling with UML, functional modeling using DFDs, and leveraging CASE tools for effective design.

CO3: Emphasizes understanding software design processes, key design concepts, design patterns, architectural styles, and user interface design, applying knowledge through practical case studies

	<p>CO4: Focuses on mastering software testing techniques, including unit, black-box, white-box, integration, regression testing, debugging, program analysis, model checking, and applying them through case studies.</p> <p>CO5: Emphasizes understanding project management, configuration management, scheduling, DevOps practices, cloud operations, deployment pipelines, tools, and applying this knowledge through practical case studies.</p>
<p>OCE351 Environmental and Social Impact Assessment</p>	<p>After completion of the course, Students will be able to</p> <p>CO1: Elaborate about the necessity to study the impacts of development on the environment.</p> <p>CO2: Describe the screening and scoping of developmental projects for environmental social impact assessments and explain different methodologies for environmental impact prediction and assessment.</p> <p>CO3: Plan environmental impact assessments, environmental management plans and evaluate environmental impact assessment reports.</p> <p>CO4: Determine the project-affected person and suggest a suitable rehabilitation and resettlement plan</p> <p>CO5: Solve real-time engineering problems based on prior experience gained by involving them in case studies.</p>
<p>CCS372 Virtualization</p>	<p>CO1: The students can able to understand the fundamentals, benefits, limitations, and types of virtualization and hypervisors</p> <p>CO2: The students are able to explore server and desktop virtualization types, uses, and platform selection.</p> <p>CO3: The students are able to learn the principles, tools, and architectures of network virtualization.</p> <p>CO4: The students are able to study types, functions, and risks of storage virtualization and related technologies.</p> <p>CO5: The students are able to familiarize with key virtualization tools and their applications through case studies.</p>

<p>CCS339 Cryptocurrency and Blockchain Technologies</p>	<p>The students will be able to:</p> <p>CO1: Elaborate emerging abstract models for Blockchain Technology</p> <p>CO2: Identify major challenges and technical gaps existing between theory and practice in the crypto currency domain.</p> <p>CO3: Explain Different protocols and consensus algorithms in Blockchain</p> <p>CO4: Apply Hyperledger Fabric and Ethereum platform to implement the Blockchain Application.</p> <p>CO5:Build various block chain applications.</p>
<p>CW3006 Introduction to Innovation, IP Management and Entrepreneurship</p>	<p>CO1: Explain the concept of innovation and its role in enterprise management</p> <p>CO2: Discuss different types of IPR and its evolution</p> <p>CO3: Illustrate the registration procedure of various forms of IPR</p> <p>CO4: Summarize the need for motivation in the success of the entrepreneurship journey</p> <p>CO5: Interpret the role of finance in running a business</p>
<p>MX3086 History of Science and Technology in India</p>	<p>CO1:The students will be able to gain a comprehensive understanding of the historical development of science and technology in India</p> <p>CO2:The students will be able to analyze the socio-cultural and economic impact of technological advancements in various historical periods</p> <p>CO3:The students will be able to evaluate the contributions of Indian scholars and their influence on global scientific thought</p> <p>CO4:The students will be able to understand the colonial impact on Indian science and the responses from Indian scientists</p> <p>CO5:The students will be able to critically assess the role of science and technology in India's development in the modern and globalization era</p>

<p>CW3611 Business Analytics Laboratory</p>	<p>CO1:Implement machine learning techniques for predictive analytics across various business domains.</p> <p>CO2:Analyze and interpret predictions using linear regression for data-driven insights.</p> <p>CO3:Perform forecasting and inventory planning analytics for large retailers to optimize operations.</p> <p>CO4:Apply predictive analysis in HR and supply chain to improve decision-making and efficiency.</p> <p>CO5:Utilize predictive analysis in marketing and sales to enhance strategies and drive business growth.</p>
<p>CCS334 Big Data Analytics</p>	<p>After completion of the course, it is expected that the students will be able to:</p> <p>CO1: Discuss about the need for big data and use cases for various business domains</p> <p>CO2: Apply the NoSQL big data management and Cassandra to efficiently store Big Data</p> <p>CO3: Apply map-reduce concepts in real world applications.</p> <p>CO4: Explain the Hadoop and HDFS concepts.</p> <p>CO5:Apply Hadoop-related tools such as HBase, Pig, and Hive for big data analytics for given problems.</p>
<p>CCD334 Supply Chain Management</p>	<p>CO1: The students will be able to understand the supply chain fundamentals.</p> <p>CO2:The students will be able to design supply chain networks to enhance supply chain performance.</p> <p>CO3:The students will be able to plan demand based on inventory and supply.</p> <p>CO4:The students will be able to understand the role of logistics in supply chain performance.</p> <p>CO5:The students will be able to create awareness of innovations for sustainable supply chains.</p>

SEMESTER VII

GE3791 Human Values and Ethics	<p>CO1: This course helps students identify the importance of democratic, secular, and scientific values in the harmonious functioning of social life.</p> <p>CO2: This course helps students to practice democratic and scientific values in both their personal and professional life.</p> <p>CO3: This course helps students to find rational solutions to social problems.</p> <p>CO4: This course encourages students to behave in an ethical manner in society.</p> <p>CO5: This course enables students to practice critical thinking and the pursuit of truth.</p>
GE3754 Human Resource Management	<p>CO1: Students would have gained knowledge on the various aspects of HRM</p> <p>CO2: Students will gain knowledge needed for success as a human resources professional</p> <p>CO3: Students will develop the skills needed for a successful HR manager</p> <p>CO4: Students would be prepared to implement the concepts learned in the workplace.</p> <p>CO5: Students would be aware of the emerging concepts in the field of HRM</p>
OMG351 Fintech Regulations	<p>The students can able to</p> <p>CO1: Apply the fundamental role of regulatory bodies and legal frameworks in FinTech.</p> <p>CO2: Analyze the impact of regulation on innovation and technology in finance</p> <p>CO3: Evaluate the structure, types, and legal considerations of crowdfunding and digital assets</p>

	<p>CO4: Interpret laws surrounding marketplace lending, mobile payments, and consumer protection.</p> <p>CO5: Comprehend legal obligations related to AML compliance and cybersecurity in financial technologies</p>
<p>CME365 Renewable Energy Technologies</p>	<p>After completion of the course, it is expected that the students will be able to:</p> <p>CO1: Discuss about the Indian and world energy scenario</p> <p>CO2: Describe the methods of power generation from Solar Energy</p> <p>CO3: Analyze different parameters of consideration for designing a Wind Turbine</p> <p>CO4: Explain the methods of power generation from bio – energy</p> <p>CO5: Elaborate other minor renewable energy sources for power generation</p> <p>CO6: Build a solar PV system plan for a given condition</p>
<p>CCS367 Storage Technologies</p>	<p>CO1: Demonstrate the fundamentals of information storage management and various models of Cloud infrastructure services and deployment</p> <p>CO2: Illustrate the usage of advanced intelligent storage systems and RAID</p> <p>CO3: Interpret various storage networking architectures - SAN, including storage subsystems and virtualization</p> <p>CO4: Examine the different role in providing disaster recovery and remote replication technologies</p> <p>CO5: Infer the security needs and security measures to be employed in information storage management</p>
<p>CW3003 Customer Relation Management</p>	<p>CO1: The students will be able to understand the elements of CRM</p>

	<p>CO2: The students will be able to apply the elements of CRM to manage customer portfolios.</p> <p>CO3: The students will be able to understand the tools of CRM</p> <p>CO4: The students will be able to apply the tools of CRM to manage customer portfolios.</p> <p>CO5: The students will be able to understand different analytical methods of CRM to enhance customer experience</p>
<p>CBM370</p> <p>Wearable devices</p>	<p>CO1: Describe the concepts of wearable system</p> <p>CO2: Explain the signal processing and energy harvestings in wearable device</p> <p>CO3: Recognize the concepts of wireless monitoring system and BAN in health care</p> <p>CO4: Illustrate the concept of smart textile and fabrication techniques</p> <p>CO5: Explain the various applications of wearable devices in healthcare system</p> <p>CO6: Realize the use of wearable technologies, health and well-being of people</p>

SEMESTER VIII

<p>CW3811-Project Work</p>	<p>CO1: Domain knowledge and technical skill set required for solving industry / research problems.</p> <p>CO2: Provide solution architecture, module level designs, algorithms.</p> <p>CO3: Implement, test and deploy the solution for the target platform.</p> <p>CO4: Prepare detailed technical report, demonstrate and present the work.</p>
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