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R.S.M Nagar, Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu- 601206

Arfiliated to Anna University, Chennai / Approved by AICTE, New Delhi/Accredited by NAAC with A+ Grade

An ISO 21001:2018 Certified Institution / All the Eligible UG Programs are Accredited by NBA, New Delhi

Department of Computer Science and Business Systems

COURSE OUTCOMES 2024 – 2025 ODD SEMESTER

SI. No.	Semester	Course Code	Course Title
1	3	22GE301	Universal Human Values II
2	3	22CB301	Computer Organization & Architecture
3	3	22CB302	Fundamentals of Economics
4	3	22CB303	Software Design with UML
5	3	22CB304	Database Management Systems
6	3	22MA304	Computational Statistics
7	3	22ME311	Product Development Lab - 3
8	3	22CS311	Aptitude and Coding Skills I
9	3	22CB311	Mini Project - Design
10	3	***	Indian Constitution (Non Credit)
11	5	22CB501	Fundamentals of Management
12	5	22CB502	Business Strategy
13	5	22CB503	Computer Networks
14	5	22CB504	Design Thinking
15	5	22CB903	Machine Learning
16	5	22CB906	Industrial Psychology
17	5	22CS511	Advanced Aptitude and Coding Skills I
18	5	22CB511	Internship/Seminar
19	5	***	Essence of Indian Traditional Knowledge (Non-Credit)
20	7	20CB701	Usability Design of Software Applications + Lab
21	7	20CB702	IT Workshop Scilab + Lab
22	7	20CB703	IT Project Management + Lab
23	7	20CB915	Cryptology + Lab
24	7	20IT713	Professional Readiness for Innovation, Employability and Entrepreneurship.
25	7	20CB711	Project Work – Phase I

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THIRD SEMESTER

22GE301 UNIVERSAL HUMAN VALUES 2: UNDERSTANDING HARMONY

COs	OUTCOMES: Upon completion of the course, the students will
CO1	Aware of themselves, and their surroundings (family, society, nature).
CO2	More responsible in life, and in handling problems with sustainable solutions, while keeping human relationships and human nature in mind.
CO3	Better critical ability.
CO4	Sensitive to their commitment towards what they have understood (human values, human relationships, and human society).
CO5	Apply what they have learnt to their own self in different day-to-day settings in real life, at least a beginning would be made in this direction.

22CB301 COMPUTER ORGANIZATION AND ARCHITECTURE

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand the basic principles and operations of digital computers
CO2	Design Arithmetic and Logic Unit
CO3	Perform fixed- and floating-point operations
CO4	Develop pipeline architectures for RISC Processors
CO5	Understand Parallel Processor Architectures
CO6	Understand Various Memory systems & I/O interfacings

22CB302 FUNDAMENTALS OF ECONOMICS

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Become familiar with both principles of micro and macroeconomics.
CO2	Understand the approaches to consumer behavior and relation between production and cost function.
CO3	Describe and discuss on interaction of product and factor market.
CO4	Get awareness about importance and development of Indian economy and economic reforms.
CO5	Have thorough knowledge in the areas of inflation, unemployment, monetary policy, fiscal policy and international trade.

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22CB303 SOFTWARE DESIGN WITH UML

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand engineering approach to software development, software quality and reliability.
CO2	Summarize the concepts of software requirement analysis.
CO3	Apply the concepts of object-oriented principles.
CO4	Understand the need for software design and modelling techniques.
CO5	Compare and contrast various software testing methodologies.
CO6	Explore various project and risk management techniques.

22CB304 DATABASE MANAGEMENT SYSTEMS

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Able to design and deploy an efficient & scalable data storage node for varied kind of application requirements.
CO2	Map ER model to Relational model to perform database design effectively.
CO3	Write queries using normalization criteria and optimize queries.
CO4	Compare and contrast various indexing strategies in different database systems.
CO5	Appraise how advanced databases differ from traditional databases.

22MA304 COMPUTATIONAL STATISTICS

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Estimate the statistical measures of multivariate normal distribution.
CO2	Compute the variance and covariance using multivariate analysis.
CO3	Apply Discriminant analysis in data analytics.
CO4	Find the Principal components and factor analysis of the given data.
CO5	Implement the concepts of cluster analysis in data analytics.

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22ME311 PRODUCT DEVELOPMENT LAB – 3

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Enhance their skills in design concepts, rules and procedures.
CO2	Develop their cognitive strategy to think, organize, learn and behave.
CO3	Demonstrate the ability to provide conceptual design strategies for a product.
CO4	Describe the procedure for designing a Mock-up model.
CO5	Recognize and apply appropriate interdisciplinary and integrative strategies for solving complex problems

22CS311 APTITUDE AND CODING SKILLS – I

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Develop vocabulary for effective communication and reading skills.
CO2	Build the logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming.

INDIAN CONSTITUTION (Non-Credit)

CO	OUTCOME: Upon completion of the course, students will be able to
CO1	Have the knowledge on Indian Constitution

FIFTH SEMESTER 22CB501 FUNDAMENTALS OF MANAGEMENT

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand the theories, concept, and evolution of management.
CO2	Demonstrate the ability to employ 'the management way of thinking'.
CO3	Understand how organizations work and find it easier to grasp the intricacies of other management areas such as finance, marketing, strategy etc.
CO4	Understand the qualities of a leader in the managerial aspect in future terms.
CO5	Understand the managerial ethics and CSR and its importance.

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22CB502

BUSINESS STRATEGY

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Become familiar with both internal and external environments. They would also become familiar with corporate and growth strategies, appreciate implementation of such strategies.
CO2	Learn the fundamental concepts of strategic management to analyse business situations and apply these concepts to solve business problems.
CO3	Understand the fundamental principles of and interrelationships among business functions such as: R&D, production, marketing, finance, and HR and information technology.
CO4	Apply the inter-relationships of business to individuals, other organizations, government and society.
CO5	Analyze complex, unstructured qualitative and quantitative problems, using appropriate tools.

22CB503

COMPUTER NETWORKS

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand the classification of computer networks, basic layers and its functions, protocols and transmission media in computer networks.
CO2	Inspect the functionalities of data link and media access control protocols.
CO3	Examine different routing algorithms.
CO4	Identify appropriate protocol to be used at the transport layer.
CO5	Explain the working of various application layer protocols and network security.

22CB504

DESIGN THINKING

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand the phases of design thinking process.
CO2	Conduct an immersion activity to create an empathy map.
CO3	Define the key problems of the personas created.
CO4	Apply the ideation phase steps to present the prototype ideas.
CO5	Create a prototype with value propositions and test the prototype.

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22CB903

MACHINE LEARNING

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Explain the basics of Machine Learning and model evaluation.
CO2	Study dimensionality reduction techniques.
CO3	Understand and implement various classification algorithms.
CO4	Understand and implement various unsupervised learning techniques.
CO5	Build Neural Networks and understand the different types of learning.

22CB906

INDUSTRIAL PSYCHOLOGY

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Become conversant about the major content areas of Industrial Psychology.
CO2	Gain further comfort with statistical concepts in the context of making personnel decisions.
CO3	Gain practical experience by completing a series of hands-on projects involving job analysis, selection decisions, training programs, and employee well-being.
CO4	Deepen your understanding of tests and measurements so that you can collect accurate information and make sound data-based decisions.
CO5	Prepare for other focused seminar courses in Industrial/Organizational Psychology or Human Resource Management.

22CS511 ADVANCED APTITUDE AND CODING SKILLS - I

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Develop vocabulary for effective communication and reading skills.
CO2	Build the logical reasoning and quantitative skills.
CO3	Develop error correction and debugging skills in programming

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SEVENTH SEMESTER

20CB701 USABILITY DESIGN OF SOFTWARE APPLICATIONS + LAB

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand the fundamentals and importance of User-Centred design.
CO2	Perform design evaluation by applying the heuristic principles.
CO3	Develop an application focusing on the design aspects.
CO4	Do research on understanding user requirement.
CO5	Perform iterative product development using prototyping technique.

20CB702 IT WORKSHOP SCILAB + LAB

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Write fundamental programs in MATLAB/Scilab, creating variables and mathematical functions.
CO2	Understand how to program matrix operations, array operations and how to solve the system of linear equations.
CO3	Program the fundamentals concepts of basic Plotting consisting of simple and multiple data sets in one plot.
CO4	Understand how to program M-file scripts, M- file functions, Input –output Arguments and program control flow operators, loops, flow structures.
CO5	Use the debugging process and debugging M-files.

20CB703 IT PROJECT MANAGEMENT + LAB

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Learn to effectively plan, and schedule projects within time and cost targets.
CO2	Have Knowledge in Cost Control, Scheduling and Management Features.
CO3	Be aware of different Agile Project Methodologies.
CO4	Know in detail about Scrum.
CO5	Obtain good knowledge in DevOps.

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20CB915

CRYPTOLOGY + LAB

COs	OUTCOMES: Upon completion of the course, students will be able to
CO1	Understand and apply the various concepts of basics of Number Theory.
CO2	Secure a message over an insecure channel by numerous symmetric key cryptosystem.
CO3	Apply diverse Public Key Cryptosystem & Authentication.
CO4	Implement varied security applications
CO5	Understand the implications of quantum computing on cryptography and security.