Amar Sewa Mandal's



GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY



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AN ISO 9001-2015 & ISO 14001-2015 CERTIFIED INSTITUTE

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President Secretary Treasurer Principal
Dr. (Smt.) Suhasini Wanjari Adv. Abhijit G. Wanjarri Dr. Smeeta Wanjarri Dr. Salim Chavan

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING B. TECH. 5^{TH} SEMESTER

LEARNING MANAGMENT SYSTEM (LMS)

S. N.	NAME OF SUBJECT	CO'S	NOTES LINK
1	DATABASE SYSTEM (BTCOC501)	CO1: Understand the fundamentals of database systems, data modelling using the ER model, and the concepts of database architecture and design.	<u>VIEW</u>
		CO2: Apply relational algebra and relational calculus to manipulate and query relational databases, and their computational capabilities.	<u>VIEW</u>
		CO3: Demonstrate proficiency in using SQL for database definition, manipulation, and querying, including advanced concepts like joins, transactions, and triggers.	VIEW
		CO4: Apply relational database design principles, normalization, and file organization techniques, and indexing and hashing methods for efficient data retrieval.	VIEW
		CO5: Analyze transaction concepts and ACID properties, and <i>apply</i> concurrency control and recovery techniques to ensure database consistency.	VIEW
2	THEORY OF COMPUTATION (BTCOC502)	CO1: Understand the concepts of deterministic and non-deterministic finite automata (DFA, NFA), Moore and Mealy machines, and their inter-conversions	<u>VIEW</u>
		CO2: Remember and Understand the definition of context-free grammars (CFG), production rules, and ambiguity in grammar, and analyze and simplify CFGs by removing ambiguities.	VIEW
		CO3: Understand context-free languages (CFL), regular grammar definitions, apply the conversion between left-linear and right-linear grammars and their relationship to finite automata.	VIEW
		CO4: Understand and apply the concepts of pushdown automata (PDA), both deterministic (DPDA) and non-deterministic (NPDA), and analyze the relative powers of DPDA and NPDA.	VIEW
		CO5: Understand the concept of Turing machines, and illustrate the implications of undecidability and	VIEW

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		unsolvable problems.	
3	SOFTWARE ENGINEERING (BTCOC503)	CO1: Understand and analyze software engineering ethics, process models, and managing change in software development.	VIEW
		CO2: Apply agile methodologies, including Extreme Programming, and evaluate the processes of requirements engineering.	VIEW
		CO3: Understand and apply system modeling techniques and evaluate architectural design decisions and patterns.	VIEW
		CO4: Apply object-oriented design using UML, evaluate design patterns, and analyze implementation issues.	<u>VIEW</u>
		CO5: Understand and apply software testing techniques and evaluate dependability properties like safety, security, and reliability.	VIEW
4	HUMAN COMPUTER INTERACTION (BTCOE504A)	CO1: Understand the basic concepts of HCI, and analyze the role of computer devices and interaction models in HCI.	VIEW
		CO2: Apply interaction design principles, screen design, and layout, and evaluate design processes, usability, and iterative prototyping in the software life cycle.	VIEW
		CO3: Understand and apply techniques for evaluating user interfaces through expert analysis and user participation.	VIEW
		CO4: Understand and analyze cognitive, communication, and collaboration models in HCI, including goal/task hierarchies and group working dynamics.	VIEW
		CO5: Apply groupware systems, computer-mediated communication, and ubiquitous computing principles, and with multimedia concepts for interactive environments.	VIEW
5	BUSINESS COMMUNICATION	CO1: Understand and explain key concepts of communication and communicative competence in various contexts.	VIEW
	(BTHM505B)	CO2: Analyze intercultural communication, nonverbal communication, and the challenges of translation in communication.	VIEW
		CO3: Identify and analyze barriers to communication, and understand listening techniques, communication rules, and styles.	VIEW
		CO4: Apply principles of interpersonal, relational, and organizational communication, and analyze effective communication in teams and persuasive settings.	VIEW

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CO5: Evaluate communication strategies in negotiation,	VIEW
conflict management, leadership, and crisis situations in	
international business communication.	

