Vidya Vikas Education Trust's
Universal College of Engineering, Kaman Road, Vasai-401208
Accredited B+ Grade by NAAC

DEPARTMENT OF COMPUTER ENGINEERING

Academic year: 2023-24 **Semester: IV** **Branch: Computer**

Course Code	Course Name	COs
CSC401	**Engineering Mathematics-IV**	Student will be able to: **CO1**. Apply the concepts of Eigen values and eigenvectors in engineering problems. **CO2**. Use the concepts of Complex Integration for evaluating integrals, computing residues &evaluate various contour integrals. **CO3**. Apply the concept of Z- transformation and inverse in engineering problems. **CO4**. Use the concept of probability distribution and sampling theory to engineering problems. **CO5**. Apply the concept of Linear Programming Problems to optimization. **CO6.** Solve Non-Linear Programming Problems for optimization of engineering problems.
CSC402	**Analysis of Algorithms**	Student will be able to: **CO1**. Analyze the running time and space complexity of algorithms. **CO2**. Describe, apply and analyze the complexity of divide and conquer strategy. **CO3**. Describe, apply and analyze the complexity of greedy strategy. **CO4**. Describe, apply and analyze the complexity of dynamic programming strategy. **CO5**. Explain and apply backtracking, branch and bound. **CO6**. Explain and apply string matching techniques.

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CSC403	**Database Management System**	Student will be able to: **CO1**. Recognize the need of database management system **CO2**. Design ER and EER diagram for real life applications **CO3**. Construct relational model and write relational algebra queries. **CO4**. Formulate SQL queries **CO5**. Apply the concept of normalization to relational database design. **CO6**. Describe the concept of transaction, concurrency and recovery.
CSC404	**Operating System**	Student will be able to: **CO1**. Understand the objectives, functions and structure of OS **CO2.** Analyze the concept of process management and evaluate performance of process scheduling algorithms. **CO3.** Understand and apply the concepts of synchronization and deadlocks **CO4.** Evaluate performance of Memory allocation and replacement policies **CO5.**Understand the concepts of file management. **CO6.**Apply concepts of I/O management and analyze techniques of disk scheduling.
CSC405	**Microprocessor**	Student will be able to: **CO1**. Describe core concepts of 8086 microprocessor. **CO2**. Interpret the instructions of 8086 and write assembly and Mixed language programs. **CO3**. Identify the specifications of peripheral chip. **CO4**. Design 8086 based system using memory and peripheral chips. **CO5**. Appraise the architecture of advanced processors. **CO6.** Understand hyper threading technology