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

## COURSE OUTCOMES

**Year/Semester**: S.E/ IV

| Subject Code | Subject Name | CO's |
|---|---|---|
| CSC401 | Engineering Mathematics-IV | At the end of the course student will be able to:<br>CO1- Apply the concepts of eigenvalues and eigenvectors in engineering problems..<br>CO2- Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.<br>CO3- Apply the concept of Z- transformation and inverse in engineering problems.<br>CO4- Use the concept of probability distribution and sampling theory to engineering problems.<br>CO5- Apply the concept of Linear Programming Problems to optimization.<br>CO6- Solve Non-Linear Programming Problems for optimization of engineering problems. |
| CSC402 | Analysis of Algorithm | At the end of the course student will be able to:<br>CO1- Analyze the running time and space complexity of algorithms.<br>CO2- Describe, apply and analyze the complexity of divide and conquer strategy.<br>CO3- Describe, apply and analyze the complexity of greedy strategy.<br>CO4- Describe, apply and analyze the complexity of dynamic programming strategy<br>CO5- Explain and apply backtracking, branch and bound.<br>CO6- Explain and apply string matching techniques |
| CSC403 | Database Management System | **CO1-** Recognize the need for Database Management System<br>**CO2-** Design ER and EER diagram for real life application<br>**CO3-** Construct relational model and write relational algebra queries<br>**CO4-** Formulate SQL queries<br>**CO5-** Apply the concept of normalization to relational database design.<br>**CO6-** Describe the concept of transaction, concurrency and recovery |
| CSC404 | Operating System | At the end of the course student will be able to:<br>CO1- Understand the objectives, functions and structure of OS<br>CO2- Analyze the concept of process management and evaluate performance of process scheduling algorithms<br>CO3- Understand and apply the concepts of synchronization and deadlocks<br>CO4- Evaluate performance of Memory allocation and replacement policies<br>CO5- Understand the concepts of file management. |

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| | | CO6- Apply concepts of I/O management and analyze techniques of disk scheduling. |
| CSC405 | Microprocessor | At the end of the course student will be able to:<br>CO1- Describe core concepts of 8086 microprocessor.<br>CO2- Interpret the instructions of 8086 and write assembly and Mixed language programs.<br>CO3- Identify the specifications of peripheral chip<br>CO4- Design 8086 based system using memory and peripheral chips.<br>CO5- Appraise the architecture of advanced processors<br>CO6- Understand hyper threading technology |