Mahavir Education Trust's

SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE
Affiliated to University of Mumbai, Approved by D.T.E. & A.I.C.T.E.| Awarded 'A' Grade by D.T.E., M.S. | Electronics Enginering Program Accreditated by N.B.A.,
New Delhi for 2 years w.e.f. 6th Aug.,2014 | Computer Engineering Program Re-Accreditated by N.B.A.,New Delhi for 3 yeas w.e.f. 1st July 2019 | Information Technology
Program Accreditated by N.B.A.,New Delhi for 3 years w.e.f. 1st July 2019

DEPARTMENT OF COMPUTER ENGINEERING

ISO 9001 Certified

Semester – III

Unique Course Number: **CSC301**   **Course Name: Applied Mathematics-III**

Unique CO Number	Course Outcome (CO) Statement
CS8051	Understand complex variable theory, applications of Harmonic Conjugate to get Orthogonal Trajectories and Analytics function
CS8052	Plot the image of the curve by Complex Transformation from Z-plane to W-plane
CS8053	Expand the periodic function by using Fourier Series and Complex form of Fourier Series
CS8054	Understand the concept of Laplace Transform and Inverse Laplace Transform of various functions and its applications to solve Ordinary Differential Equations
CS8055	Apply the concept of Z-Transformation and its Inverse of the given sequence
CS8056	Apply the concept of Correlation and Regression to the Engineering problems

Unique Course Number: **CSC302**   **Course Name: Digital Logic Design and Analysis**

Unique CO Number	Course Outcome (CO) Statement
CSC3021	Understand different number systems and their conversions.
CSC3022	Analyze and minimize Boolean expressions.
CSC3023	Design and analyze combinational circuits.
CSC3024	Design and analyze sequential circuits
CSC3025	Understand the basic concepts of VHDL.
CSC3026	Study basics of TTL and CMOS Logic families.

Unique Course Number: **CSC303**   **Course Name: Discrete Mathematics**

Unique CO Number	Course Outcome (CO) Statement
CSC3031	Understand the notion of mathematical thinking, mathematical proofs and to apply them in problem solving.
CSC3032	Ability to reason logically.
CSC3033	Ability to understand relations, Diagraph and lattice.
CSC3034	Ability to understand use of functions, graphs and their use in programming applications.
CSC3035	Understand use of groups and codes in Encoding-Decoding
CSC3036	Apply discrete structures into other computing problems such as formal specification, verification, artificial intelligence, cryptography, Data Analysis and Data Mining etc.

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Unique Course Number: CSC304 Course Name: Electronic Circuits & Communication Fundamentals

Unique CO Number	Course Outcome (CO) Statement
CSC3041	Study semiconductor devices and its applications
CSC3042	Describe the working of oscillators and power amplifies in communication system
CSC3043	Describe the working of oscillators and power amplifies in communication system
CSC3044	Study of different modulation & demodulation technique used in analog communication.
CSC3045	Classify digital modulation technique and different multiplexing techniques.
CSC3046	Study basic concept of information theory and channel capacity.

Unique Course Number: CSC305   Course Name: Data Structures

Unique CO Number	Course Outcome (CO) Statement
CSC3051	Implement various Linear and Nonlinear data structures
CSC3052	Handle operations like insertion, deletion, searching and traversing on various data structures
CSC3053	Select appropriate sorting technique for given problem
CSC3054	Select appropriate sorting technique for given problem
CSC3055	Apply learned concepts in various domains like DBMS and Compiler Construction
CSC3056	Choose appropriate data structure for specified problem domain

Unique Course Number: CSL301   Course Name: Digital System Lab

Unique CO Number	Course Outcome (CO) Statement
CSL3011	Understand the basics of various digital components.
CSL3012	Understand various types of codes and their conversion.
CSL3013	Understand the principles of design of combinational logic.
CSL3014	Understand the logic of Flip flops and its conversion.
CSL3015	Understand the concept of various types of Counters and its design.
CSL3016	Design and simulate the basic digital circuit.

Unique Course Number: CSL302   Course Name: Basic Electronics Lab

Unique CO Number	Course Outcome (CO) Statement
CSL3021	Understand the basics of various semiconductor devices and electronic components.
CSL3022	Understand the working of oscillators in communication systems.
CSL3023	Understand the basic working of OP-AMP with its application.
CSL3024	Analyze the circuit and its parameters using waveform at different function for continuous analog modulation techniques.
CSL3025	Analyze the circuit and its parameters using waveform at different function for continuous digital modulation and demodulation techniques
CSL3026	Study the fundamental concepts of superhetrodyne radio receiver.

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Unique Course Number: **CSL303**   **Course Name: Data structure Lab**

Unique CO Number	Course Outcome (CO) Statement
CSL3031	Implement various Linear and Nonlinear data structures.
CSL3032	Handle operations like insertion, deletion, searching and traversing on various data structures.
CSL3033	Select appropriate sorting technique for given problem
CSL3034	Select appropriate searching technique for given problem
CSL3035	Apply learned concepts in various domains like DBMS and Compiler Construction
CSL3036	Choose appropriate data structure for specified problem domain

Unique Course Number: **CSL304**   **Course Name: OOPM(Java) Lab**

Unique CO Number	Course Outcome (CO) Statement
CSL3041	Apply fundamental programming constructs
CSL3042	Illustrate the concept of packages, classes and objects
CSL3043	Elaborate the concept of strings, arrays and vectors
CSL3044	Implement the concept of inheritance and interfaces.
CSL3045	Implement the notion of exception handling and multithreading.
CSL3046	Develop GUI based application.