G.S. Mandal's

Maharashtra Institute of Technology

(An Autonomous Institute)

Affiliated to Dr. Babasaheb Ambedkar Marathwada University (Dr. BAMU), Chh. Sambhaji (Aurangabad)

AICTE Approved, (Accredited with "Grade A" by NAAC)

Emerging Science and Technology Department

Course outcome statements and mapping CO-PO

AY 2023-24 Part II

Class : - SY CSD

Course Code :- BSC251A **Course Title:- Complex Variable & Vector Calculus**

Course Outcomes :-

CO1	Find the Fourier transform of given function
CO2	Express the function in Fourier series in different intervals
CO3	Discuss the function of complex variables
CO4	Make use of partial derivatives for differentiation of vector functions
CO5	Evaluate vector integral by Stoke's theorem&Gauss theorem
CO6	Solve the difference equations by z-transform or Solve partial differential equations by separation of variables

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	1	-	-	-	-	-	-	-	-	-	-
CO2	2	1	-	-	-	-	-	-	-	-	-	-
CO3	2	1	-	-	-	-	-	-	-	-	-	-
CO4	2	1	-	-	-	-	-	-	-	-	-	-
CO5	2	1	-	-	-	-	-	-	-	-	-	-
CO6	2	1	-	-	-	-	-	-	-	-	-	-
Average	2	1	-	-	-	-	-	-	-	-	-	-
Mapping Strength	1.0	1.0	-	-	-	-	-	-	-	-	-	-

G.S. Mandal's
Maharashtra Institute of Technology
(An Autonomous Institute)
Affiliated to Dr. Babasaheb Ambedkar Marathwada University (Dr. BAMU), Chh. Sambhaji (Aurangabad)
AICTE Approved, (Accredited with "Grade A" by NAAC)

Course Code :- CSD251 **Course Title:- Database Management System**

Course Outcomes :-

CO1 Explain basic concept of database management system and its architecture. (I. Knowledge)
CO2 Analyze and design Database Management Systeusing ER model (I. Knowledge).
CO3 Normalize the database design using normal forms (III. Apply).
CO4 Implement different types of SQL queries on data (III. Apply).
CO5 Illustrate ACID properties for transaction management and concurrency control (I. Knowledge).
CO6 Compare NoSQL databases with SQL databases (I. Knowledge).

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-		-	-	-	-	-	-	-	-
CO2	2	2	-	-	-	-	-	-	-	-	-	-
CO3	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	1	-	-	-	-	-	-	-	-	-	-
CO5	1	-	-	-	-	-	-	-	-	-	-	-
CO6	1	2	-	-	-	-	-	-	-	-	-	-
Average	1.6	1.6	-	-	-	-	-	-	-	-	-	-
Mapping Strength	1.6	1.6	-	-	-	-	-	-	-	-	-	-

Course Code :- CSD252 **Course Title:- Operating System**

Course Outcomes :-

CO1 Students will be able to understand the basics, structures, and functions of the Operating System.(II Understand)
CO2 Students will be able to apply the process management concepts and scheduling algorithms.(III Apply)
CO3 Students will be able to identify Deadlock..(II Understand)
CO4 Apply the knowledge of Memory management and segmentation.(III Apply)
CO5 Students will be able to understand the File management system of Operating systems with Storage management..(II Understand)
CO6 Students will understand the workings of the operating system..(II Understand)

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	1	-	-	-	-	-	-	-	-	-	-
CO2	-	1	-	-	-	-	-	-	-	-	-	-
CO3	-	1	-	-	-	-	-	-	-	-	-	-
CO4	-	-	2	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	-	-	-	-	-	-	-	-
CO6	-	-	-	1	-	-	-	-	-	-	-	-
Average	-	1.0	2.0	1.0	-	-	-	-	-	-	-	-
Mapping Strength	-	1	2	1	-	-	-	-	-	-	-	-

Course Code :- CSD253 **Course Title:- Discrete Mathematics and Graph Theory**

Course Outcomes :-

CO1 Use the concept of propositional logic to solve the engineering problems. (BL: Remember, Understand, Apply)

CO2 Solve the problems on set operations, counting theory and functions (BL: Remember, Understand, Apply)

CO3 Identify equivalence and partial order relations. (BL: Understand, Apply)

CO4 Apply concepts of graph and trees for solving complex problems. (BL: Apply)

CO5 Make use of algebraic properties of groups, rings and fields to solve number theoretic problems (BL: Apply)

CO-PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	-	-	-	-	-	-	-	-	-	-	-
CO2	3	2	2	-	-	-	-	-	-	-	-	-
CO3	3	2	-	-	-	-	-	-	-	-	-	-
CO4	2	2	3	-	-	-	-	-	-	-	-	-
CO5	3	2	-	-	-	-	-	-	-	-	-	-
Average	2.8	2	2.5	-	-	-	-	-	-	-	-	-
Mapping Strength	2.8	2	2.5	-	-	-	-	-	-	-	-	-

HESTD