Maharashtra Institute of Technology, Aurangabad

Computer Science & Engineering
Course outcome statements and mapping CO-PO, CO-PSO
Academic year: 2023-24 Part-II

Course Name: PE-I: Computer Graphics   **Course Code: CSE281**
Class: SYCSE

Course Outcomes:

CO1	Understand the basic concept of video display devices in computer graphics
CO2	Understand the different input output devices of graphics software
CO3	Apply 2D Transformation on object in Computer Graphics
CO4	Apply 3D Transformation on object in Computer Graphics
CO5	Apply Line ,Circle, character generation algorithms on object in Computer Graphics
CO6	Create Animation and viewing objects in computer Graphics

Strength: Strongly (3), moderately (2), weakly (1)

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

CO-PSO mapping for

CO	PSO1	PSO2	PSO 3
CO1	-	-	1
CO2	-	-	1
CO3	-	-	1
CO4	-	-	1
CO5	-	-	1
CO6	-	-	1
Average	-	-	1

Maharashtra Institute of Technology, Aurangabad

Computer Science & Engineering
Course outcome statements and mapping CO-PO, CO-PSO
Academic year: 2023-24 Part-II

Course Name: Computer Network   **Course Code: CSE252**
Class: SYCSE

Course Outcomes:

CO1	Explain how computer networks are organized with the concept of layered approach.
CO2	Use of different components at physical layer by understanding of their usage.
CO3	Compare different types of networking techniques
CO4	Summarize the important aspects and functions of different layers
CO5	Illustrate basic concepts of networking for setting up computer networks for specific requirements (using simulator)
CO6	Perform different network programs

CO-PO Mapping

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSE252.1	1	2	2	3	2							
CSE252.2	2	2	2	3	2							
CSE252.3	1	2	2	2	2							
CSE252.4	2	2	2	2	2							
CSE252.5	2	2	2	2	2							
CSE252.6	2	2	2	2	2							
Average	2	2	2	2	2							

CO-PSO Mapping

Course Code	PSO1	PSO2	PSO3
CSE401.1		2	
CSE401.2		2	
CSE401.3		2	
CSE401.4		2	
CSE401.5		2	
CSE401.6		2	
Average		2	

Maharashtra Institute of Technology, Aurangabad

Computer Science & Engineering
Course outcome statements and mapping CO-PO, CO-PSO
Academic year: 2023-24 Part-II

Course Name: Database Management System   **Course Code: CSE253**
Class: SYCSE

Course Outcomes:

CO1	Describe the fundamentals of a Relational database management system.(I-Remember, II-Understand)
CO2	Design ER model for the database (III- Apply)
CO3	Apply the method of normalization for designing a relational database. (III- Apply)
CO4	Write and execute SQL queries to define database schema and manipulate data. (III-Apply)
CO5	Explain the basics of transaction and concurrency control in the database system. (III-Apply)
CO6	Creating a database using NoSQL. (II-Understand)

Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
Describe the fundamentals of a Relational database management system.	1	1	2	-	1	-	-	-	-	-	-	-
Design ER model for the database	1	1	2	-	1	-	-	-	-	-	-	-
Apply the method of normalization for designing a relational database.	1	1	2	-	1	-	-	-	-	-	-	-
Write and execute SQL queries to define database schema and manipulate data.	1	1	2	-	1	-	-	-	-	-	-	-
Explain the basics of transaction and concurrency control	1	1	2	-	1	-	-	-	-	-	-	-

in the database system.												
Creating a database using NoSQL	1	1	2	-	1	-	-	-	-	-	-	-
Average	1	1	2	-	1	-	-	-	-	-	-	-

CO-PSO Mapping

	PSO 1	PSO 2	PSO 3
CO1	2	1	-
CO2	2	1	-
CO3	2	1	-
CO4	2	1	-
CO5	2	1	-
CO6	2	1	-
Average	2	1	-

Computer Science & Engineering
Course outcome statements and mapping CO-PO, CO-PSO
Academic year: 2023-24 Part-II

Course Name: PE-I: Human Computer Interaction　　**Course Code: CSE283**
Class: SYCSE

Course Outcomes:

CO1	Understand the capabilities of human and computer for information processing.
CO2	Explain design principles and evaluation techniques of user interface design.
CO3	Describe the communication and collaboration models of interaction.
CO4	Identify the features of groupware and different computing environments.
CO5	Determine the effectiveness of the interface design for Human computer Interaction systems by examining its alignment with user needs and task requirements
CO6	Explain various concepts of design and development of Human computer Interaction

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	1	1	-	-	-	-	-	-	-	-	-	-
CO2	1	1	-	-	-	-	-	-	-	-	-	-
CO3	1	1	2	-	-	-	-	-	-	-	-	-
CO4	1	1	2	-	-	-	-	-	-	-	-	-
CO5	1	1	2	-	-	-	-	-	-	-	-	-
CO6	1	1	2	-	-	-	-	-	-	-	-	-
Average mapping strength	1	1	2	-	-	-	-	-	-	-	-	-

CO-PSO Mapping:

CO	PSO1	PSO2	PSO3
CO1	1	-	-
CO2	1	-	-
CO3	1	-	-
CO4	1	-	-
CO5	1	-	-
CO6	1	-	-
Average mapping strength	1	-	-

Computer Science & Engineering
Course outcome statements and mapping CO-PO, CO-PSO
Academic year: 2023-24 Part-II

Course Name: Object Oriented Programming with Java   **Course Code: CSE271**
Class: SYCSE

Course Outcomes:

CO1	Describe Procedure Oriented Programming and Object oriented programming concepts.
CO2	Demonstrate the basic programming constructs like control structure, constructors, string handling
CO3	Apply inheritance, interface and abstract classes for given problem.
CO4	Apply exception handling to avoid abnormal termination of program and multithreading concepts to develop inter process communication.
CO5	Use file stream operation in java programming for given application programs..
CO6	Build the java applications using applets

Strength: Strongly (3), moderately (2), weakly (1)

CO	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	1	3	3	3	3	-	-	-	-	-	-	2
CO2	1	3	3	-	2	-	-	-	-	-	2	2
CO3	1	3	3	2	2	-	-	-	-	-	2	2
CO4	1	3	3	2	2	-	-	-	-	-	2	2
CO5	1	3	3	-	2	-	-	-	-	-	2	-
CO6	1	3	3	2	2	-	-	-	-	-	-	-
Average	1	3	3	1	2	-	-	-	-	-	1	1

CO-PSO mapping for

CO	PSO 1	PSO 2	PSO 3
CO1	3	3	1
CO2	3	3	-
CO3	3	3	-
CO4	3	3	-
CO5	3	3	-
CO6	3	3	-
Average	3	3	-

Dr. Smita Kasar
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