

ST. FRANCIS INSTITUTE OF TECHNOLOGY
 Department of Computer Engineering
 Course Outcomes
 Term II Academic year 2022-23 SE CMPN, Sem IV

Subject: Applied Mathematics IV (CSC401)

Course Outcomes

CSC401.1	Students will be able to Apply the concepts of eigen values and eigen vectors in engineering problems
CSC401.2	Students will be able to Use the concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.
CSC401.3	Students will be able to Apply the concept of Z- transformation and its inverse in engineering problems
CSC401.4	Students will be able to Use the concept of probability distribution and sampling theory to engineering problems
CSC401.5	Students will be able to Apply the concept of Linear Programming Problems of optimization.
CSC401.6	Students will be able to Solve Non-Linear Programming Problems to engineering problems of optimization

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1		3										
CO2		3										
CO3		3										
CO4		2										
CO5		2										
CO6		3										

COs	PSO1	PSO2	PSO3	PSO4
CO1	3			
CO2	3			
CO3	3			
CO4	2			
CO5	2			
CO6	3			

Subject: Analysis of Algorithms (CSC402)

Course Outcomes

CSC402.1	Analyze the run time and space complexity of algorithms using asymptotic analysis, recurrence relations or Master's Method.
CSC402.2	Describe the divide and conquer strategy and apply it to real time problems
CSC402.3	Demonstrate the application of dynamic programming and explain when a problem situation calls for the paradigm
CSC402.4	Examine and illustrate the complexity of greedy strategy and identify algorithms that employ this paradigm
CSC402.5	Identify, analyze and apply backtracking, branch and bound techniques to different problems
CSC402.6	Apply string matching problems. Students will algorithms to real time search also be able to describe the classes P, NP, and NP-Complete and prove if a certain problem is NP-Complete

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	3	3	2	-	-	-	-	-	3
CO2	3	3	3	3	3	2	-	-	-	-	-	3
CO3	3	3	3	3	3	2	-	-	-	-	-	3
CO4	3	3	3	3	3	2	-	-	-	-	-	3
CO5	3	3	3	3	3	2	-	-	-	-	-	3
CO6	3	3	3	3	3	2	-	-	-	-	-	3

COs	PSO1	PSO2	PSO3	PSO4
CO1	3	--	3	--
CO2	3	--	3	--
CO3	3	--	3	--
CO4	3	--	3	--
CO5	3	--	3	--
CO6	3	--	3	--

Subject:Database Management System (CSC403)

Course Outcomes

CSC403.1	Understand the fundamentals of a database systems
CSC403.2	Design and draw ER and EER diagram for the real life problem
CSC403.3	Convert conceptual model to relational model and formulate relational algebra queries.
CSC403.4	Design and querying database using SQL.
CSC403.5	Analyze and apply concepts of normalization to relational database design.
CSC403.6	Understand the concept of transaction, concurrency and recovery.

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	3	-	-	-	-	-	-	-	2
CO2	1	3	3	3	3	-	-	-	-	-	-	2
CO3	3	3	3	3	2	-	-	-	-	-	-	2
CO4	1	3	3	3	2	-	-	-	-	-	-	2
CO5	1	3	3	3	1	-	-	-	-	-	-	2
CO6	2	1	3	3	-	-	-	-	-	-	-	2

COs	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2
CO2	3	3	3	2
CO3	3	3	3	2
CO4	3	3	3	2
CO5	3	3	3	2
CO6	3	3	3	2

Subject:Operating System (CSC404)

Course Outcomes

CSC404.1	Discuss the role of OS and demonstrate basic commands and various system calls
CSC404.2	Analyze the concept of processes,threads and apply it using shell scripts.
CSC404.3	Evaluate performance of process scheduling algorithms and IPC
CSC404.4	Evaluate process synchronization and deadlock handling.
CSC404.5	Analyze the concept of memory management techniques and evaluate performance of various algorithms.
CSC404.6	Analyze different techniques of file and IO management

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	-	1	3		-	-	-	-	-	2
CO2	3	3	-	2	3		-	-	-	-	-	2
CO3	3	3		2	3			-	-	-	-	2
CO4	3	3		2	3			-	-	-	-	2
CO5	3	3		2	3			-	-	-	-	2
CO6	3	3		3	3		-	-	-	-	-	3

COs	PSO1	PSO2	PSO3	PSO4
CO1	2	3		
CO2	2	3		
CO3	3	3		
CO4	3	3		
CO5	3	3		
CO6	1	3		

Subject:Microprocessor (CSC405)

Course Outcomes

CSC405.1	To apply the core concepts of 8086 processor in embedded systems.
CSC405.2	To analyze and use the instructions of 8086 and develop the assembly and mixed language programs.
CSC405.3	To identify the specifications and working of peripheral chips.
CSC405.4	To design 8086 based system using memory and peripheral chips.
CSC405.5	To compare and appraise the architecture of advanced processors.
CSC405.6	To apply hyperthreading technology.

CO-PO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	3	-	NA	NA	3	NA	NA	-
CO2	3	3	3	3	3	-	NA	NA	3	NA	NA	-
CO3	3	2	3	2	3	-	NA	NA	3	NA	NA	-
CO4	3	3	3	3	3	-	NA	NA	3	NA	NA	-
CO5	3	3	3	2	3	-	NA	NA	3	NA	NA	-
CO6	3	2	3	2	3	-	NA	NA	3	NA	NA	-

COs	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	NA
CO2	3	3	3	NA
CO3	3	3	3	NA
CO4	3	3	3	NA
CO5	3	3	3	NA
CO6	3	3	3	NA