

DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA, MUMBAI

Department of Computer Engineering (Even semester, 2021-22)

SE Comps

Course Name:	EM-IV		
Course Code	CSC401		
Faculty Name:	Ms. Pallavi		
Year	2	Sem	IV

CO Number	Course Outcome
CSC401.1	Students will be able to Obtain Eigen values and Eigen vectors for a given square matrix
CSC401.2	conditional Probabilities using Bayes' theorem, (iv) Obtain pdf and cdf of discrete and continuous random variables
CSC401.3	functions of square matrices, (iv) Obtain conditional probabilities using Bayes' theorem, (v) Obtain MGF and hence obtain the mean and
CSC401.4	and poles and find residues at poles
CSC401.5	optimization problems
CSC401.6	attributes and 'goodness of fit', (ii) Apply Big – M method and Dual Simplex method to optimize an LPP and analyze solutions obtained

Course Name:	AOA		
Course Code	CSC402		
Faculty Name:	Ditty Varghese		
Year	2	Sem	IV

CO Number	Course Outcome
CSC402.1	Ability to analyze the running time and space complexity of algorithms.
CSC402.2	Ability to describe, apply and analyze the complexity of divide and conquer strategy.
CSC402.3	Ability to describe, apply and analyze the complexity of greedy strategy.
CSC402.4	Ability to describe, apply and analyze the complexity of dynamic programming strategy.
CSC402.5	Ability to explain and apply backtracking, branch and bound.
CSC402.6	Ability to explain and apply string matching techniques.

Course Name:	DBMS		
Course Code	CSC403		
Faculty Name:	Ms. Sana Shaikh		
Year	2	Sem	IV

CO Number	Course Outcome
CSC403.1	To understand and explain the fundamentals of database management systems
CSC403.2	To design the conceptual model for any real-life problem.
CSC403.3	To convert the conceptual model to relational model and formulate relational algebra queries.
CSC403.4	To apply and formulate SQL queries to manage the database system.
CSC403.5	To analyze and improve the design of a relational database using the concepts of Normalization.
CSC403.6	To correlate the concepts of Transaction, Concurrency and Recovery Management with each other in DBMS.

Course Name:	OS		
Course Code	CSC404		
Faculty Name:	Ms. Kalpita Wagaskar		
Year	2	Sem	IV

CO Number	Course Outcome
CSC404.1	Ability to understand role of Operating System in terms of process, memory, file and I/O management.
CSC404.2	Ability to apply and analyse the concept of a process, thread, mutual exclusion and deadlock.
CSC404.3	Ability to evaluate performance of process scheduling algorithms and IPC.
CSC404.4	Ability to apply and analyse the concepts of memory management techniques
CSC404.5	Ability to evaluate the performance of memory allocation and replacement techniques.
CSC404.6	Ability to apply and analyze different techniques of file and I/O management.

Course Name:	Microprocessor		
Course Code	CSC405		
Faculty Name:	Ms. Sejal Chopra		
Year	2	Sem	IV

CO Number	Course Outcome
CSC405.1	Ability to explain the various architectures and internal working of x86 processors.
CSC405.2	Ability to use and apply appropriate instructions to program a microprocessor to perform various tasks.
CSC405.3	Ability to describe the concept and working of Interrupts.
CSC405.4	Ability to identify and describe the functions and features of different peripheral chips.
CSC405.5	Ability to interface and design system using memory chips and peripheral chips for 16 bit 8086 microprocessor.
CSC405.6	Ability to appraise the structural modifications of advanced processors.

Course Name:	AOA Lab		
Course Code	CSL401		
Faculty Name:	Ditty Varghese		
Year	2	Sem	IV

CO Number	Course Outcome
CSL401.1	Ability to analyze the complexities of various problems in different domains
CSL401.2	Ability to prove the correctness and analyze the running time of the basic algorithms for those classic problems in various domains.
CSL401.3	develop the efficient algorithms for the new problem with suitable designing techniques.
CSL401.4	Ability to implement the algorithms using different strategies.
CSL401.5	Ability to compare the complexity of the algorithms for specific problem.
CSL401.6	Ability to strengthen the ability to identify and apply the suitable algorithm for the given real-world problem.

Course Name:	DBMS Lab		
Course Code	CSL402		
Faculty Name:	Ms. Sana Shaikh		
Year	2	Sem	IV

CO Number	Course Outcome
CSL402.1	To design and create conceptual or relational model for any the real life problem using open source software tool.
CSL402.2	To apply SQL commands on database.
CSL402.3	To apply Data Integrity and Security to protect the database from unauthorized access and manipulation.
CSL402.4	To examine effect of concurrency control on database and implement and execute subquery/complex queries.
CSL402.5	To apply views and triggers for specific task.
CSL402.6	To create database system for any real-time scenario and access the data through front end.

Course Name:	OS Lab		
Course Code	CSL403		
Faculty Name:	Ms. Kalpita Wagaskar		
Year	2	Sem	IV

CO Number	Course Outcome
CSL403.1	Ability to Understand and execute basic operating system commands.
CSL403.2	Ability to write shell scripts and shell commands using kernel APIs.
CSL403.3	Ability to explore various system calls.
CSL403.4	Ability to implement and analyze different process scheduling algorithms
CSL403.5	Ability to implement and analyze different memory management algorithms.
CSL403.6	Ability to evaluate process management techniques and deadlock handling using CPU-OS simulator .

Course Name:	MP Lab		
Course Code	CSL404		
Faculty Name:	Sejal Chopra		
Year	2	Sem	IV

CO Number	Course Outcome
CSL404.1	Ability to explain and identify different instructions of 8086 microprocessor.
CSL404.2	Ability to use and apply appropriate instructions to program a microprocessor to perform various tasks.
CSL404.3	Ability to perform arithmetic operations using assembly language programming.
CSL404.4	Ability to write assembly code based on array operations.
CSL404.5	Ability to develop the program in mixed language.
CSL404.6	Ability to write and execute assembly code for code conversions.

Course Name:	Skill Base Lab Course: Python Programming		
Course Code	CSL405		
Faculty Name:	Prof. Imran Ali Mirza		
Year	2	Sem	IV

CO Number	Course Outcome
CSL405.1	Ability to develop simple programs using basic concepts in Python and Perl.
CSL405.2	Ability to demonstrate advanced concepts related to Python and Perl.
CSL405.3	Ability to use various data structures in Python.
CSL405.4	Ability to understand and apply Django framework for developing Python based web applications.
CSL405.5	Ability to design GUI based applications in Python.
CSL405.6	Ability to develop Mini projects using Python and/or Perl

Course Name:	Mini Project 1-B		
Course Code	CSM401		
Faculty Name:	Ms. Ditty Varghese		
Year	2	Sem	IV

CO Number	Course Outcome
CSM401.1	Identify problems based on societal /research needs and apply knowledge & skill to solve societal problems in a group.
CSM401.2	Develop interpersonal skills to work as member of a group or leader.
CSM401.3	Draw the proper inferences from available results through theoretical/ experimental/simulations.
CSM401.4	Analyze the impact of solutions in societal and environmental context for sustainable development.
CSM401.5	Use standard norms of engineering practices and Excel in written and oral communication.
CSM401.6	Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.

BE Comps			
Course Name:	HMI		
Course Code	CSC801		
Faculty Name:	Dipti Jadhav		
Year	4	Sem	VIII
CO Number	Course Outcome		
CSC801.1	Ability to know concepts and strategies for making design decisions.		
CSC801.2	Ability to understand the importance of human psychology in designing good interfaces.		
CSC801.3	Apply Interactive Design process in real world applications		
CSC801.4	Analyzing existing interface designs and user experience		
CSC801.5	Ability to Evaluate UI design and justify		
CSC801.6	Ability to do research in Machine Interaction Design and generate redesign ideas.		

Course Name:	DC		
Course Code	CSC802		
Faculty Name:	Dr. Amiya Kumar Tripathy		
Year	4	Sem	VIII
CO Number	Course Outcome		
CSC802.1	Understand the basic elements and concepts related to distributed system Technologies		
CSC802.2	Illustrate the middleware technologies that support distributed applications such as RPC, RMI and Object based middleware		
CSC802.3	Analyze the various techniques used for clock synchronization and mutual exclusion		
CSC802.4	Demonstrate the concepts of Resource and Process management and synchronization algorithms		
CSC802.5	Demonstrate the concepts of Consistency and Replication Management		
CSC802.6	Apply Distributed File System to analyze various file systems towards building large-scale distributed applications		

Course Name:	NLP		
Course Code			
Faculty Name:	Phiroj Shaikh		
Year	4	Sem	VIII
CO Number	Course Outcome		
CSDLO8012.1	Locate and retrieve the knowledge of natural languages to step ahead for automated processing natural language text.		
CSDLO8012.2	Understand & contrast basics of word level analysis concept and techniques.		
CSDLO8012.3	Articulate and implement syntax analysis of natural language text with various methodologies.		
CSDLO8012.4	Categorize and illustrate semantic analysis of natural language text with various constructs.		
CSDLO8012.5	Assess pragmatic analysis with discourse and reference resolution.		
CSDLO8012.6	Build real world NLP applications such as machine translation, text categorization, text summarization, information extraction...etc.		

Course Name:	HMI LAB		
Course Code	CSL801		
Faculty Name:	Dipti Jadhav		
Year	4	Sem	VIII

CO Number	Course Outcome
CSL801.1	Ability to know concepts and strategies for making design decisions.
CSL801.2	Ability to understand the importance of human psychology and abilities in designing good interfaces (Virtual Lab)
CSL801.3	Apply HMI in their day-to-day activities
CSL801.4	Ability to criticize existing interface designs, and improve them
CSL801.5	Ability to Evaluate UI design and generating redesigning ideas
CSL801.6	Design prototype for social and technical task.

Course Name:	DC LAB		
Course Code	CSL802		
Faculty Name:	Dr. Amiya Kumar Tripathy		
Year	4	Sem	VIII

CO Number	Course Outcome
CSL802.1	Demonstrate basic knowledge of the elements and concepts related to distributed system Technologies
CSL802.2	Apply the middleware technologies that support distributed applications such as RPC, RMI and Object based middleware
CSL802.3	Analyze and implemnt techniques used for clock synchronization and mutual exclusion
CSL802.4	Demonstrate the Resource and Process management Process in DS
CSL802.5	Demonstrate the concepts of Consistency and Replication Management
CSL802.6	Design and implement application programs on distributed systems.

Course Name:	CCL		
Course Code	CSL803		
Faculty Name:	Ms. Priya Kaul		
Year	4	Sem	VIII

CO Number	Course Outcome
CSL803.1	To understand different types of virtualization and increase resource utilization.
CSL803.2	To demonstrate on demand application delivery over the web.
CSL803.3	To apply and demonstrate various service models.
CSL803.4	To analyze security issues on cloud
CSL803.5	To develop real world web applications and deploy on commercial cloud.
CSL803.6	To Build a private cloud using open source technologies.

Course Name:	Computational Lab-II (NLP)		
Course Code	CSL804		
Faculty Name:			
Year	4	Sem	VIII

CO Number	Course Outcome
CSL804.1	To realize the basic techniques to build operational system
CSL804.2	To understand the various programming constructs and tools used
CSL804.3	To understand and use libraries and analyze the program flow
CSL804.4	To apply the tools and constructs on complex problems
CSL804.5	To Design and analyze a problem statement for solving real life problem
CSL804.6	To implement and evaluate the design with respect to performance measures of the system designed

Course Name:	Major Project-II		
Course Code	CSP805		
Faculty Name:	Ditty Varghese		
Year	4	Sem	VIII

CO Number	Course Outcome
CSP805.1	Students will be able to convert the design into a Product/Model/Prototype and validate the results.
CSP805.2	Students will be able to execute the project plan and monitor progress and maintain deadlines.
CSP805.3	Students will be able to summarize the work in the form of technical documentation following ethical practices.