	DON BO	OSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI			
		ent of Computer Engineering, (Odd semester, 2018-19)			
Course Name:	Applied Mathematics III	SE Comps			
Course Code	CSC301				
Faculty Name: Year	Satyanarayana M Nagula 2 Sem III	1			
CO Number		Course Outcome			
CSC301.1	Students will be able to i) Obtain Laplace Transforms for a given star ii) Obtain Inverse Laplace Transforms for a g iii) Define harmonic functions and Orthogor iv) Obtain Karl Pearson's coefficient of correl	iven simple function of 's' hal trajectories			
CSC301.2		place Transforms of combinations of standard functions using the properties of Laplace and Inverse Transforms, tions and obtain Fourier series, half-range Fourier series and Fourier sine and cosine series of periodic functions.			
CSC301.3	iii) Define and obtain bilinear transformation iv)Apply Heaviside's and Dirac Delta function	e image under given standard transformation and its fixed points.			
CSC301.4	Students will be able to i) Obtain the harmonic conjugate and orthogonal trajectories of a given family of curves ii) Develop orthonormal functions from a set of orthogonal functions iii) Obtain Regression coefficient & Lines of Regression. iv) Obtain Fourier series for even and odd functions.				
CSC301.5	Students will be able to i) Obtain images of regions under conformal mappings – translation, rotaion, inversion and BLT ii) Obtain an analytic function, given a linear combination of its real and imaginary parts				
CSC301.6	Students will be able to i) Apply the concept of Z- transformation and ii) Find the fitting of the curves to the given of	l its inverse of the given sequence			
Course Name: Course Code Faculty Name:	DLDA CSC302 Ditty Varghese				
Year	2 Sem III				
CO Number CSC302.1	Ability to perform numerical calculations and	Course Outcome			
CSC302.2	Ability to analyze and minimize boolean exp	ressions.			
CSC302.3 CSC302.4	Ability to design synchronous and asynchronous	its and to verify the circuit with respect to the underlying logic. ous sequential circuits.			
CSC302.5	Ability to explain digital circuits using VHDL.				
CSC302.6	Ability to comprehend the theory behind var	ious logic families.			
Course Name:	Discrete Mathematics				
Course Code Faculty Name:	CSC303 Priya Kaul	-			
Year	2 Sem III				
CO Number					
	To develop analytical and critical thinking ab	Course Outcome illities by applying concepts of sets and logic in solving mathematical proofs and verification of theorems			
CSC303.1 CSC303.2		Course Outcome illities by applying concepts of sets and logic in solving mathematical proofs and verification of theorems. tions in solving mathematical arguments and proof strategies.			
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CSL302.1	Understand the basics of various semiconductor devices, electronic components and instruments.		
CSL302.2	Describe and explain the fundamental concepts of various modulation methods.		
CSL302.3	Understand the working of electronic circuits and designing them using various basic components		
CSL302.4	Recognize the importance of electronic circuits in electronic communications.		
CSL302.5	Formulate,design and simulate electronics circuits using SPICE		
CSL302.6	Design and simulate communication circuits using SCILAB		
Course Name:	Data Structures Lab		
	001 202		

Course Code	CSL303		03	
Faculty Name:	Imran Ali Mirza		Mirza	
Year	2	Sem	III	
CO Number				Course Outcome
	Exemplify an	d impleme	nt how abstract data t	types such as stack, queue and linked list can be implemented to manage the memory using static and dynamic
CSL303.1	allocations			
CSL303.2	Understand and implement trees, binary trees, and binary search trees			
CSL303.3	Implement b	Implement binary tree traversals and operations on binary search trees		
CSL303.4	Identify and	Identify and develop code for real life DFS and BFS using graph theory		
CSL303.5	Develop and	Develop and compare the comparison-based search algorithms and sorting algorithms.		
CSL303.6	Identify data appropriate a		strategies that are ap	opropriate to a given contextual problem and able to design, develop, test and debug in C language considering

Course Name:		OOPM	Lab	
Course Code	CSL304		104	
Faculty Name:	Mayura Gavhane		avhane	
Year	2	Sem	III	
CO Number	Course Outcome			
CSL304.1	Apply fundamental programming constructs.			
CSL304.2	Illustrate the concept of packages, classes and objects			
CSL304.3	To use the concept of strings, arrays and vectors in programs.			
CSL304.4	Implement the concept of Inheritance and Interfaces			
CSL304.5	Demonstrate the concept of exception handling and multithreading			
CSL304.6	Develop GUI based application and Apply Object Oriented programming concepts on it.			

	No.	TE Comps
Course Name: Course Code	Microprocessor CSC501	-
Faculty Name:	Ditty Varghese	
Year CO Number	3 Sem V	Course Outcome
CSC501.1	Ability to explain the various architectures a	
CSC501.2 CSC501.3	Ability to use and apply appropriate instruct Ability to describe the concept and working	ions to program a microprocessor to perform various tasks.
CSC501.4	Ability to identify and describe the functions	
CSC501.5		memory chips and peripheral chips for 16 bit 8086 microprocessor.
CSC501.6	Ability to appraise the structural modification	ns or advanced processors.
Course Name:	DBMS	
Course Code Faculty Name:	CSC502 Sana Shaikh	-
Year	3 Sem V	
CO Number CSC502.1	Ability to understand, define and explain the	Course Outcome fundamentals of database management systems.
CSC502.2	Ability to design the conceptional model for	any real life problem.
CSC502.3 CSC502.4	Abilty to convert conceptional model to relat Abilty to apply and formulate SQL queries to	cional model and formulate relational algebra queries.
CSC502.5	Ability to analyze and design a relational dat	abase design using the concepts of normalizations.
CSC502.6	Ability to understand the concept of Transac	tion, Concurrency and Recovery Management.
Course Name:	CN	
Course Code Faculty Name:	CSC503 Nilakshi Joshi	-
Year	3 Sem V	
CO Number	The student will be able to	Course Outcome concepts of data communication at physical layer and compare ISO -OSI model with TCP/IP model
CSC503.1 CPC503.2	The student will be able to demonstrate the	knowledge of networking protocols at data link layer.
CPC503.3	The student will be able to design the netwo	rk using IP addressing and subnetting / supernetting schemes.
CPC503.4 CPC503.5	The student will be able to discuss protocols	
CPC503.6		hnical information verbally, in writing, and in presentations.
Course Name:	TCS	
Course Code	CSC504	
Faculty Name: Year	Shainila Mulla 3 Sem V	-
CO Number		Course Outcome
CSC504.1 CSC504.2	To identify concepts in automata theory & do To design finite automata and differentiate b	
CSC504.3 CSC504.4	To infer the equivalance of languages descril	ped by finite automata and regular expressions.
CSC504.4 CSC504.5		e regular and context free grammer for recognizing strings & token. n through turing machines & pushdown automata,to solve computational problems
CSC504.6	To describe the concepts of undecidability &	decidability
Course Name:	Multimedia System	
Course Code	CSDLO5011 Mayura Gavhane	
Faculty Name: Year	3 Sem V	-
CO Number CSDLO5011.1	Identify having for the distribution of the di	Course Outcome
CSDLO5011.1 CSDLO5011.2	Identify basics of multimedia and multimedia Describe different multimedia components.	a system architecture.
CSDLO5011.3 CSDLO5011.4	Explain file formats for different multimedia	
CSDLO5011.4 CSDLO5011.5	Analyze the different compression algorithm	Fechniques and distinguish with respect to application. s.
CSDLO5011.6	Apply different security techniques in multin	nedia environment.
Course Name:	AOS	
Course Code Faculty Name:	CSDLO5012	-
Year	Amiya Kumar Tripathy 3 Sem V	<u> </u>
CO Number CSDLO5012.1	Demonstrate understanding of design i	Course Outcome of advanced Operating Systems (OS) and compare different types of operating systems.
CSDLO5012.2	Analyse design aspects and data structures u	sed for file subsystem, memory Subsystem and process subsystem of Unix OS.
CSDLO5012.3 CSDLO5012.4	Demonstrate understanding of different arch Compare different processor scheduling algo	itectures used in Multiprocessor OS and analyse the design, data structures used in it.
CSDLO5012.5	Classify Real Time OS and analyse various re	eal time scheduling algorithms
CSDLO5012.6	Explore architectures and design issues of M	obile OS, Virtual OS, Cloud OS.
Course Name:	Microprocessor Lab	
Course Code Faculty Name:	CSL501 Ditty Varghese	-
Year	3 Sem V	
CO Number CSL501.1	Ability to explain and identify different instr	Course Outcome
CSL501.2	Ability to use and apply appropriate instruct	ions to program a microprocessor to perform various tasks.
CSL501.3 CSL501.4	Ability to perform arithmetic operatio ns using Ability to write assembly code based on array	
CSL501.5	Ability to develop the program in mixed lang	guage.
CSL501.6	Ability to write and execute assembly code for	or code conversions.
Course Name:	Computer Network Lab	
Course Code	CSL502	
Faculty Name: Year	Nilakshi Joshi 3 Sem V	
CO Number		Course Outcome
CSL502.1 CSL502.2	The student will be able to design and setup The student will be able to Illustrate the use	
CSL502.3	The student will be able to design and build	a network topology using packet tracer.
CSL502.4 CSL502.5		NS2 simulator, Wireshark etc to simulate and explore networking algorithms and protocols. ams using core programming APIs for understanding networking concepts.
CSL502.6		hnical information verbally, in writing, and in presentations.
Course Name:	Database & Info. System Lab	
Course Code	CSL503	
Faculty Name: Year	Sana Shaikh 3 Sem V	-
CO Number	J Jen V	Course Outcome
CSL503.1	Ability to design and create ER and EER diag Ability to apply SQL commands on database.	gram for the real life problem with open source software tool.
CSI 503 2		
CSL503.2 CSL503.3	Ability to apply Data Integrity and Security	to protect the database from unauthorized access and manipulation.
CSL503.3 CSL503.4	Ability to apply Data Integrity and Security Ability to examine effect of concurrency cont	rol on database and implement and execute sub-query/complex queries.
CSL503.3	Ability to apply Data Integrity and Security	rol on database and implement and execute sub-query/complex queries.

Course Name:		Web Desi	gn Lab	
Course Code		CSL5	04	
Faculty Name:		Dipti Ja	dhav	
Year	3	Sem	V	
CO Number				Course Outcome
CSL504.1	To equip stu	To equip students with the necessary techniques required for developing Web Applications.		
CSL504.2		Design static web pages using HTML5 and CSS3		
CSL504.3		Apply the concept of client side validation and design dynamic web pages using JavaScript and JQuery.		
CSL504.4				and create Interactive web pages using PHP, AJAX with database connectivity using MySQL.
CSL504.5	Demonstrate	the basics	of XML, DTD and XSI	L and develop web pages using XML / XSLT
CSL504.6	Analyze end	Analyze end user requirements and Create web application using appropriate web technologies and web development framework		
	_			
Course Name:		BCI		
Course Code		CSL5		
Faculty Name:		/ishal & Jef		
Year	3	Sem	V	
CO Number				Course Outcome
CSL505.1	Students will be able to relate to techniques of formal and technical writing and to principles of corporate ethics which includes knowledge of Intellectual Property Rights and ethical codes of conduct in business and corporate activities			
CSL505.2		Students will be able to explain the objectives, format and style of technical report, and technical proposal and the importance of interpersonal skills and paraphrase a technical paper		
CSL505.3		Students will be able to describe strategies for effective meetings and group discussions and techniques for effective preparation for different types of interview which includes resume writing and statement of purpose		
CSL505.4		Students will be able to apply conceptual awareness of interpersonal skills, strategies for effective meetings which includes documentation, and group discussions to complete a mock project		
CSL505.5	Students will be able to make use of the given format while drafting a technical report and a technical proposal and the techniques of effective preparation for interviews while appearing for a mock interview			
CSL505.6	Students wil	l be able to	evaluate technical re	ports and technical proposals using the given rubric

		BE Comps
Course Name:	DSP	DE Compo
Course Code	CPC701	
Faculty Name:	Sejal Chopra	
Year	4 Sem VII	
CO Number		Course Outcome
CPC701.1		ation about the basic theory & manipulation of digital signals & systems.
CPC701.2		applications involving Digital Signal Processors.
CPC701.3		types of signal processing algorithms, stability of the system, effects of different parameters on system output
CPC701.4		oplication of various signal processing algorithms and variation in system parameters . system criticizing various parameters of the system.
CPC701.5 CPC701.6		them practically in a simulation environment.
Gr G/ 01.0	Design Dor Systems by implementing	nem procedury in a simulation environment.
Course Name:	CSS	
Course Code	CPC702	
Faculty Name:	Shafaque Syed	
Year	4 Sem VII	
CO Number		Course Outcome
CPC702.1	Explain the principles and practices of	
CPC702.2 CPC702.3	Describe and Apply secret and public	ecurity threats, vulnerabilities and analyze simple system security problems
CPC702.4	Study and Apply different cyptograph	
CPC702.5		ation standards used in communication protocols
CPC702.6		tools and technologies in the field of computer and system security
Course Name:	AI	
Course Code Faculty Name:	CPC703 Kalpita Wagaskar	
Year	4 Sem VII	
CO Number	, John VII	Course Outcome
CPC703.1	Describe and identify the basic AI bui	ding blocks with different AI applications.
CPC703.2	Distinguish and explain the structure	and environment of an Intelligent Agent.
CPC703.3		oblem solving techniques, Informed Search Methods and Adversarial Search techniques
CPC703.4		and reasoning , and design, illustrate and relate first order logic for given problem statement to uncertainty using belief
CDCTCC F	networks	and the state of t
CPC703.5		pare planning and learning techniques used in AI paradigm and the Expert system model. In a propert systems model. In a propert systems.
CPC703.6	investigate and understand Natural La	inguage processing and formulate research statement using NLP concepts with expert systems.
Course Name:	IP	
Course Code	CPE7023	
Faculty Name:	Dipti Jadhav	
Year	4 Sem VII	
CO Number		
CPE7023.1 CPE7023.2		of a digital image processing and video processing
CPE7023.2 CPE7023.3	Explain and implement image enhance Classify and implement image segment	
CPE7023.4	Demonstrate Image compression and	
CPE7023.5	Apply Binary Image Processing Opera	
CPE7023.6	Analysis of image processing issues ar	d techniques and ability to apply these techniques to real world problems
Course Name:	SC	
Course Code	CPE7025	
Faculty Name: Year		
	Phiroj Shaikh 4 Sem VII	
CO Number	Phiroj Shaikh 4 Sem VII	Course Outcome
CO Number CPE7025.1		
CPE7025.1 CPE7025.2	4 Sem VII State and understand various soft con Understand and Analyze the fuzzy log	puting concepts ic theory.
CPE7025.1 CPE7025.2 CPE7025.3	4 Sem VII State and understand various soft con Understand and Analyze the fuzzy log Appraise Neural network and differen	puting concepts ic theory. itate between supervised and unsupervised learning algorithms
CPE7025.1 CPE7025.2 CPE7025.3 CPE7025.4	4 Sem VII State and understand various soft con Understand and Analyze the fuzzy log Appraise Neural network and differer Apply genetic algorithms to solve com	puting concepts ic theory. tiate between supervised and unsupervised learning algorithms binatorial optimization problems
CPE7025.1 CPE7025.2 CPE7025.3 CPE7025.4 CPE7025.5	4 Sem VII State and understand various soft con Understand and Analyze the fuzzy log Appraise Neural network and differer Apply genetic algorithms to solve con Understand efficiency of a hybrid syst	puting concepts ic theory. itate between supervised and unsupervised learning algorithms binatorial optimization problems m and test the importance of optimization techniques
CPE7025.1 CPE7025.2 CPE7025.3 CPE7025.4	4 Sem VII State and understand various soft con Understand and Analyze the fuzzy log Appraise Neural network and differer Apply genetic algorithms to solve con Understand efficiency of a hybrid syst	puting concepts ic theory. tiate between supervised and unsupervised learning algorithms binatorial optimization problems
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