DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI

Department of Computer Engineering, (Odd Semester, 2020-21)

SE Comps

Course Name:	Арг	olied Mathematic	es III					
Course Code		CSC301						
Faculty Name:	Revathy S, I	Pallavi M & Saty	yanarayana N					
Year	2	Sem	III					
CO Number				Course Outcome				
CSC301.1	ii) Obtain Invers iii) Define harm	ee Transforms for se Laplace Trans onic functions a	nd Orthogonal tr	n simple function of 's' ajectories				
CSC301.2	Students will be i) Obtain the La functions using ii) Identify ortho	iv) Obtain Karl Pearson's coefficient of correlation and Spearman's Rank correlation Students will be able to Obtain the Laplace Transforms, Inverse Laplace Transforms of combinations of standard functions using the properties of Laplace and Inverse Transforms. I) Identify orthogonal and orthonormal functions and obtain Fourier series, half-range Fourier series and Fourier sine and cosine series of periodic functions.						
CSC301.3	Students will be able to i) Find Cauchy – Riemann equations to verify if a function is analytic ii) Define Conformal mapping and obtain the image under given standard transformation iii) Define and obtain bilinear transformation and its fixed points. iv) Apply Heaviside's and Dirac Delta functions to obtain Laplace Transforms iv) Apply Heaves and Inverse Laplace transform concepts to evaluate integrals, solve initial and							
CSC301.4	Students will be i) Obtain the har ii) Develop orth iii) Obtain Regre	boundary value problems. Students will be able to j 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. iii) Obtain Fourier series for even and odd functions.						
CSC301.5	i) Obtain images	Students will be able to f) Obtain images of regions under conformal mappings – translation, rotaion, inversion and BLT						
CSC301.6	ii) Obtain an analytic function, given a linear combination of its real and imaginary parts Students will be able to i) Apply the concept of Z- transformation and its inverse of the given sequence ii) Find the fitting of the curves to the given data by applying Least square method. iii) Obtain Fourier series for functions in a general interval, Obtain complex form fourier series of functions.							

Course Name:	Discrete S	tructures and Gr	aph Theory					
Course Code		CSC302						
Faculty Name:	Ms. K	alpita Ajinkya W	agaskar					
Year	2	Sem	III					
CO Number		Course Outcome						
CSC302.1	To develop anal-	To develop analytical and critical thinking abilities by applying concepts of sets and logic in solving mathematical proofs and verification of theorems.						
CSC302.2	To illustrate the	usage of Relatio	ns and Function	s in solving mathematical arguments and proof strategies.				
CSC302.3	To demonstrate	To demonstrate the principle of counting techniques like permutations and combinations by solving mathematical problems.						
CSC302.4	To infer the importance of generating functions and graphs in construction of recursive algorithms and computer applications.							
CSC302.5		To apply the concepts of algebraic structures like groups, rings, and fields to solve Encoding and Decoding problems.						
CSC302.6				and their relevance within the context of computer science- in the areas like Cryptography, Data Mining, and				

Course Name:		Data Structures					
Course Code		CSC303					
Faculty Name:		Dr. Phiroj Shaik	h	•			
Year	2	Sem	III				
CO Number		Sem		Course Outcome			
COTAMIDE		Court Outcom					
CSC303.1	Students will be	able to implemen	nt Linear and No	n-Linear data structures.			
CSC303.2	Students will be	able to handle va	arious operations	like searching, insertion, deletion and traversals on various data structures.			
CSC303.3	Students will be	able to explain v	arious data struc	etures, related terminologies and its types.			
CSC303.4	Students will be	Students will be able to choose appropriate data structure and apply it to solve problems in various domains.					
CSC303.5	Students will be able to analyze and Implement appropriate searching techniques for a given problem.						
		tudents will be able to demonstrate the ability to analyze, design, apply and use data structures to solve engineering problems and evaluate their solutions.					

Course Name:	Digital Los	gic & Computer A	Architecture				
Course Code		CSC304					
Faculty Name:	Deepali Kayande						
Year	2	Sem	III				
CO Number		Course Outcome					
CSC304.1	T. 1 1:00		41				
	10 learn differen	it number system	s and basic struc	ture of computer system.			
CSC304.2	To demonstrate	the arithmetic al	gorithms.				
CSC304.3	To understand the	he basic concents	of digital comp	onents and processor organization			
CSC304.4	To understand the basic concepts of digital components and processor organization.						
CSC304.5	10 unucistanu ti	o understand the generation of control signals of computer.					
,	To demonstrate the memory organization.						
CSC304.6							
•	To describe the	concepts of paral	lel processing ar	d different Buses.			

Course Name:		omputer Graphic	s				
Course Code		CSC305					
Faculty Name:		Dipti Jadhav					
Year	2	Sem	III				
CO Number		Course Outcome					
CSC305.1	Ability to explai	Ability to explain the basics of computer graphics and its applications in various fields.					
CSC305.2	Design and impl	ement various alg	orithms for scar	n conversion, polygon filling algorithms and their comparative analysis.(Using C/OpenGL)			
CSC305.3	Ability to explai	Ability to explain, design and implement 2D and 3D geometric transformations on graphics object and their usage in composite form.					
CSC305.4	Extract scene w	Extract scene with different clipping algorithms and implementing those algorithms using (C/OpenGL)					
CSC305.5	Ability to render	Ability to render projected objects to naturalize the scene in 2D view					
CSC305.6	Ability to create	interactive graph	ics applications((C/OpenGL) using one or more application programming interfaces.			

Course Name:	I	Data Structure La	ıb			
Course Code		CSL301				
Faculty Name:	Dr. Phiroj Shaikh and Ms. Priya Kaul					
Year	2	Sem	III			
CO Number				Course Outcome		
CSL301.1	Students will be	able to implemen	nt linear data stru	actures & be able to handle operations like insertion, deletion, searching and traversing on them.		
	Students will be	able to implemen	nt nonlinear data	structures & be able to handle operations like insertion, deletion, searching and traversing on them		
CSL301.2	Students will be	able to choose a	ppropriate data s	structure and apply it in various problems		
CSL301.3						
CSL301.4	Students will be able to select appropriate searching techniques for given problems.					
CSL301.5	Students will be able to implement the various graph data structure and apply it in required application.					
	Students will be able to develop application using various data structure.					

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Course Name:		DLCA Lab						
Course Code		CSL302						
Faculty Name:	Deepali Kayande							
Year	2	Sem	III					
CO Number				Course Outcome				
CSL302.1	To understand th	ne basics of digita	l components					
CSL302.2			-	aLU, registers, CPU and memory				
CSL302.3		-		computer architecture				
CSL302.4	To implement va							
CSL302.5				onal logic and sequential logic circuits using basic components.				
CSL302.6	Design and simu	late the basic dig	ital circuit.					
Course Name:		CG Lab						
Course Code		CSL303						
Faculty Name:	Mayura	a Gawhane/Dipti	Jadhav					
Year	2	Sem	III					
CO Number				Course Outcome				
CSL303.1	Implement vario	us output primiti	ves C/ OpenGL					
CSL303.2	Ability to implen	nent filled area pr	imitive algorithm	ms using C/ OpenGL				
CSL303.3	Apply 2D and 3I	O transformation	s algorithms on	graphical objects.				
CSL303.4	Ability to implen	nent clipping algo	orithms on graph	nical objects.				
CSL303.5	Implementation	of curve and frac	tal generation.					
CSL303.6	Ability to create	interactive graph	ics applications	in (C/OpenGL/P5.js) using one or more graphics application programming interfaces.				
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Course Name:	Skill Based Lab	Course - OOPM	I with Java Lab					
Course Code		CSL304						
Faculty Name:		Ditty Varghese						
Year	2	Sem	III					
CO Number				Course Outcome				
CSL304.1 CSL304.2	To apply fundam			labina.				
CSL304.2 CSL304.3	To elaborate the	concept of string						
CSL304.4	To implement the							
CSL304.5		•		and multithreading.				
CSL304.6	To develop GUI	based applicatio	n.					
Course Name:	N	Mini Project - 1 A						
Course Code	CSM301							
Faculty Name:	I	Or. Phiroz Shaikl	ı					
Year	2	Sem	III					
CO Number				Course Outcome				
CSL304.1				ds and apply knowledge & skill to solve societal problems in a group.				
CSL304.2				f a group or leader.				
CSL304.3				through theoretical/ experimental/simulations.				
CSL304.4				·				
CSL304.5	II ise standard nor	nalyze the impact of solutions in societal and environmental context for sustainable development. se standard norms of engineering practices and Excel in written and oral communication.						

CSL304.6 Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.

			TE Comps								
Course Name:		Microprocessor									
Course Code		CSC501									
Faculty Name:		Sejal Chopra									
Year	3	Sem	v								
CO Number	,	Sem.		Course Outcome							
CSC501.1											
CSC501.2	Ability to explai	in the various arc	hitectures and in	ternal working of x86 processors.							
CSC501.2	Ability to use an	nd apply appropri	iate instructions	to program a microprocessor to perform various tasks.							
CSC501.3	riomey to use un	а прріў прріорії	ate instructions	to program a microprocessor to perform various assas.							
	Ability to describe the concept and working of Interrupts.										
CSC501.4											
CSC501.5	Ability to identify and describe the functions and features of different peripheral chips. Ability to interface and design system using memory chips and peripheral										
	chips for 16-bit 8086 microprocessor										
CSC501.6		Ability to appraise the structural modifications of advanced processors.									
	Ability to appra	ise the structural	modifications of	advanced processors.							

Course Name:		DBMS						
Course Code		CSC502						
Faculty Name:		Priya Kaul						
Year	3 Sem V							
CO Number				Course Outcome				
CSC502.1	To understand, o	Fo understand, define and explain the fundamentals of database management systems						
CSC502.2	To design the co	onceptual model	for any real-life	problem.				
CSC502.3	To convert the c	onceptual model	to relational mo	odel and formulate relational algebra queries.				
	To apply and formulate SQL queries to manage the database system.							
	To analyze and design a relational database design using the concepts of normalization							
		to correlate the concept of Transaction, Concurrency and Recovery Management with each other in DBMS.						

Course Name:		CN					
Course Code		CSC503					
Year	N	/Ir. Imram Ali Mir	za				
CO Number	3	Sem	v				
				Course Outcome			
CSC503.1							
CSC503.2	Demonstrate the	e concepts of data	a communication	n at physical layer and compare ISO-OSI model with TCP/IP model .			
C5C505.2	Demonstrate the	e knowledge of n	etworking proto	cols at data link layer			
CSC503.3	1	Demonstrate the knowledge of networking protocols at data link layer					
	Design the netw	ork using IP add	ressing and subn	netting/supernetting schemes			
CSC503.4							
	Analyze various	Analyze various algorithms and protocols at network and transport layer					
CSC503.5	1.						
CSC503.6	Discuss protoco	Discuss protocols at application layer					
C3C3U3.0	Analysing organ	Analysing organizational requirements and selecting the most appropriate network architecture and technologies.					
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Course Code		CSC504					
Faculty Name:		Shainila Mulla					
Year	3	Sem	V				
CO Number				Course Outcome			
CSC504.1	To identify conc	To identify concepts in automata theory & to differentiate between NFA & DFA					
CSC504.2	To infer the equivalance of languages described by finite automata and regular expressions.						
CSC504.3	Design finite aut	Design finite automata & pushdown automata,to solve computational problems					
CSC504.4	To associate regular and context free grammer for recognizing strings & token.						
CSC504.5	To develop an understanding of computation through turing machines						
CSC504.6	To describe the	To describe the concepts of undecidability & decidability .					

Course Name:

Course Name:

Faculty Name:		Dr. Phiroz Shaikl	1					
Year	3	Sem	V					
CO Number				Course Outcome				
CSDLO5012.1	Identify basics o	f multimedia and	multimedia syst	em architecture.				
CSDLO5012.2	Describe differen	Describe different multimedia components.						
CSDLO5012.3	Explain file forn	Explain file formats for different multimedia components						
CSDLO5012.4	Discuss various	Discuss various multimedia communication Techniques and distinguish with respect to application.						
CSDLO5012.5	Analyze the diffe	Analyze the different compression algorithms.						
CSDLO5012.6	Apply different s	security technique	es in multimedia	environment.				

Multimedia System

CSDLO5011

Course Name:		AA		
Course Code		CSDLO5013		
Faculty Name:	Ditty Varghese			
Year	3	Sem	v	
CO Number				Course Outcome
CSDLO5013.1	Ability to descri	ibe analysis techn	iques for algorit	thms.
CSDLO5013.2	Ability to identi	fy appropriate da	ta structure and	design techniques for different problems
CSDLO5013.3	Ability to identi	fy appropriate als	gorithm to be an	plied for the various application like geometric modeling, robotics, networking, etc.
CSDLO5013.4		ze various algorit		
CSDLO5013.5				andomization in the analysis of algorithm
CSDLO5013.6		be analysis techn	•	

Course Name:	Microprocesse	or Lab				
Course Code	CSL501					
Faculty Name:	Sejal Chop	га				
Year	3 Sem	v				
CO Number			Course Outcome			
CSL501.1	Ability to explain and identify	different instructio	ns of 8086 microprocessor.			
CSL501.2	Ability to use and apply appr	opriate instructions	to program a microprocessor to perform various tasks.			
CSL501.3			sembly language programming.			
CSL501.4	Ability to write assembly cod	e based on array op	erations.			
001.501.5	Ability to develop the progra	Ability to develop the program in mixed language.				
CSL501.5	Ability to write and execute assembly code for code conversions.					

Course Name:	Со	mputer Network	Lab				
Course Code		CSL502					
Faculty Name:	Mr. Imram Ali Mirza						
Year	3 Sem V						
CO Number				Course Outcome			
CSL502.1	Design and setu	ip networking en	vironment in Lin	nix			
CSL502.2	Illustrate the use	e of basic networ	king commands	in Linux.			
CSL502.3	Use Network to	simulate and ex	plore networking	g algorithms			
CSL502.4	Implement prog	Implement programs using core programming APIs for understanding networking concepts.					
CSL502.5	Communicate to	echnical informat	ion verbally, in v	vriting, and in presentations.			
CSL502.6	Use Network to	simulate and ex	plore networking	g protocols.			

Course Name:	Datab	ase & Info. Syste	em Lab			
Course Code		CSL503				
Faculty Name:		Priya Kaul				
Year	3	Sem	v			
CO Number		J. J		Course Outcome		
CSL503.1	Ability to design	and create conc	eptual or relatior	nal model for any the real life problem with open source software tool.		
CSL503.2	Ability to apply	SQL commands	on database.			
CSL503.3	Ability to apply	Data Integrity an	d Security to pro	otect the database from unauthorized access and manipulation.		
CSL503.4	Ability to exami	ne effect of conc	urrency control o	on database and implement and execute subquery/complex queries		
CSL503.5	Ability to apply	Ability to apply views and triggers for specific task.				
CSL503.6	Ability to create	database system	and access data	through front end.		
CSL503.6	Ability to create	database system	and access data	through front end.		

Course Name:		Web Design Lab				
Course Code		CSL504				
Faculty Name:		Deepali Kayande				
Year	3	Sem	V			
CO Number				Course Outcome		
CSL504.1	Understand the	core concepts and	features of Wel	o Technology		
CSL504.2	Design static we	eb pages using HT	TML5 and CSS3	*		
CSL504.3	Apply the conce	Apply the concept of client side validation and design dynamic web pages using JavaScript and JOuery.				
CSL504.4	Evaluate client	and server side tec	chnologies and c	reate Interactive web pages using PHP, AJAX with database connectivity using MySQL.		
CSL504.5	Understand the	Understand the basics of XML, DTD and XSL and develop web pages using XML/XSLT.				
CSL504.6	Analyze end use	er requirements ar	nd Create web ap	oplication using appropriate web technologies and web development framework		
Course Name:		BCE				
Course Code		CSL505				
Faculty Name:	N	Is. Devyani Balas	га			

	Course Name:		BCE					
	Course Code	,	CSL505					
Į.	Faculty Name:	N	ls. Devyani Bala:	sra				
	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				fective meetings and group discussions and techniques for effective preparation for different types of ement of purpose			
	CSL505.4	Students will be discussions to c			ness of interpersonal skills, strategies for effective meetings which includes documentation, and group			
	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 nterviews while appearing for a mock interview					
	CSL505.6	Students will be	able to evaluate	technical reports	s and technical proposals using the given rubric			
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	BE Comps							
Course Name:		DSIP						
Course Code		CSC701						
Faculty Name:		Dipti Jadhav						
Year	4	Sem	VII					
CO Number				Course Outcome				
CSC701.1	Apply the conce	pt of DT Signal	and DT Systems					
CSC701.2	Classify and ana	lyze discrete tim	e signals and sys	tems				
CSC701.3	Apply Digital Si	Apply Digital Signal Transform techniques DFT and FFT.						
CSC701.4	Explain and imp							
CSC701.5				•				

Compare image segmentation techniques.

Survey on latest research based on Digital Signal & Image Processing.

CSC701.6

Course Name:		MCC					
Course Code		CSC702					
Faculty Name:	Dr. A	Amiya Kumar Tri	pathy				
Year	4	Sem	VII				
CO Number				Course Outcome			
CSC702.1	To identify basis	concepts and pr	rinciples in mobi	le communication and computing			
CSC702.2	To express the o	components and	functioning of m	obile networking.			
CSC702.3	To apply the co	ncepts of WLAN	for local as wel	as remote applications.			
CSC702.4	To classify varie	ety of security tec	chniques in mobi	le network.			
CSC702.5	To apply the co	To apply the concepts of mobility management					
CSC702.6	To describe Lor	ng Term Evolutio	n (LTE) architec	ture and its interfaces.			

Course Name:	AI & SC			
Course Code		CSC703		
Faculty Name:	Ms. Ka	alpita Ajinkya Wa	ıgaskar	
Year	4	Sem	VII	
		Sem	VII	
CO Number CSC703.1	Students will be	able to state the	difference betwe	Course Outcome
C3C703.1	Students will be	able to state the	difference betwe	rei Ai and SC
CSC703.2	Students will be	able to explain I.	A,KBA,PSA, an	d illustrate ANN, Fuzzy Logic and Expert system architecture
CSC703.3	Students will be	able to solve pro	blems using info	ormed, uninformed search methods, optimization techniques and ANN
CSC703.4	Students will be	able to identify p	lanning types an	ad agents and illustrate t he fuzzy inference system
CSC703.5	Students will be	able to critique a	and justify differen	ent neural network algorithms and compare the results and infer error percentage
CSC703.6	Students will be	able to formulate	e problems and c	lesign FOL equation for the problems stated
Course Name:		ASS & DF		
Course Code		CSDLO7031		
Course Coue		CSDEO7031		
Faculty Name:	Sh	afaque Fatma Sy	red	
Year	4	Sem	VII	
CO Number				
CO Number	Understand cybe	er attacks and app	ply access contro	ol policies and control mechanisms.
CSDLO7031.1	71			
CSDLO7031.2	identity maliciou	is code and targe	tea malicious co	de.
	Detect and coun	ter threats to we	b applications.	
CSDLO7031.3	Explain the valle	erabilities of Wi	Fi networks and	explore different measures to secure wireless protocols, WLAN and VPN networks.
CSDLO7031.4	Lapiani ine viin	craomities or WE	i i iictworks allu	explore different measures to secure whereas protocols, well-tiv and vi iv networks.
	Identify the ethic	cal and legal issue	es associated wit	th cyber crimes and be able to mitigate impact of crimes with suitable policies.
CSDLO7031.5	Use different for	ensic tools to acc	quire and duplica	ate data from compromised systems and analyze the same.
CSDLO7031.6				

Course Name:		BDA		
Course Code		CSDLO7032		
Faculty Name:		Sana Shaikh		
Year	4	Sem	VII	
CO Number				Course Outcome
CSDLO7032.1	Understand the	key issues in big	data managemer	nt and its associated applications for business decisions and strategy.
CSDLO7032.2	Apply scalable a	lgorithms based of	on Hadoop and	Map Reduce to perform big data analytics.
CSDLO7032.3	Use NoSQL too	ls to develop pro	blem solving an	d critical thinking skills for managing large datasets.
CSDLO7032.4	Interpret busines	ss models and sci	entific computin	g paradigms, and apply software tools for big data analytics.
CSDLO7032.5	Apply various n	nethods and tech	niques for Clust	ering, and identifying frequent Itemsets from large datasets.
CSDLO7032.6	Discover inform	ation from social	network graphs	and Solve complex real world problems in various applications.

Course Name:		CSL		
Course Code		ILO7016		
Faculty Name:	Dr. Phiroj Shaikh			
Year	4	Sem	VII	
CO Number				Course Outcome
ILO7016.1	Outline the conc	ept of cybercrim	e and its effect or	the outside world.
ILO7016.2	Infer the cyber o	offenses and cybe	rerimes methodo	logies and it's probable targets.
ILO7016.3	Understands the	various tools an	d methods used i	n Cybercrimes.
ILO7016.4	Interpret and dis	tinguish differen	t aspects of cyber	law in various legal issues.
ILO7016.5	Understands the	Indian IT Act ar	nd its amendment	S.
ILO7016.6	Apply information	on security stand	ards compliance	during software design and development.
Course Name:		DSIP Lab		
Course Code		CSL701		
Faculty Name:		Dipti Jadhav		
Year	4	Sem	VII	
CO Number CSL701.1				Course Outcome
CSL701.2	Perform Samplin	ng and reconstrue	ction of the signa	l.
CSL701.3	Implement and a	apply operations and FFT on DT	like Convolution	Correlation.
CSL701.4				
CSL701.5	Implement imag	e enhancement to	echniques	
CSL701.6	Classify and imp			
	Survey on latest research and module implement:			iques.
CSL/01.0	Survey on latest		gmentation technology	igues. tion based on Digital Signal & Image Processing.
CSE/01.0	Survey on latest			
Course Name:	Survey on latest			
	Survey on latest	research and mo		
Course Name:		research and mo	dule implementa	
Course Name:		MADT Lab	dule implementa	
Course Name: Course Code Faculty Name: Year CO Number	Dr. A	MADT Lab CSL702 Amiya Kumar Tri	pathy	tion based on Digital Signal & Image Processing. Course Outcome
Course Name: Course Code Faculty Name: Year CO Number CSL702.1	Dr. A 4 To demonstrate	MADT Lab CSL702 Amiya Kumar Tri Sem mobile application	pathy VII	tion based on Digital Signal & Image Processing. Course Outcome tools
Course Name: Course Code Faculty Name: Year CO Number CSL702.1 CSL702.2	Dr. A 4 To demonstrate To articulate the	MADT Lab CSL702 Amiya Kumar Tri Sem mobile application	pathy VII ons using various SM, CDMA & E	Course Outcome tools Cluetooth technologies and demonstrate it.
Course Name: Course Code Faculty Name: Vear CO Number CSL702.1 CSL702.2 CSL702.3	Dr. A 4 To demonstrate To articulate the	MADT Lab CSL702 Amiya Kumar Tri Sem mobile application	pathy VII ons using various SM, CDMA & E	tion based on Digital Signal & Image Processing. Course Outcome tools
Course Name: Course Code Faculty Name: Year CO Number CSL702.1 CSL702.2 CSL702.3 CSL702.4	Dr. A 4 To demonstrate To articulate the	MADT Lab CSL702 Amiya Kumar Tri Sem mobile application knowledge of Grundle and Grundl	pathy VII ons using various SM, CDMA & E	Course Outcome tools Cluetooth technologies and demonstrate it.
Course Name: Course Code Faculty Name: Vear CO Number CSL702.1 CSL702.2 CSL702.3	Dr. A 4 To demonstrate To articulate the To carry out sim To develop secu	MADT Lab CSL702 Amiya Kumar Tri Sem mobile applicatic knowledge of Gulation of freque rity algorithms for	pathy VII ons using various SSM, CDMA & E	Course Outcome tools Succost technologies and demonstrate it. In terminal problem

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Course Name:	AI & SC lab			
Course Code	CSL703			
Faculty Name:	Ms. K	alpita Ajinkya Wa	gaskar	
Year	4	Sem	VII	
CO Number				Course Outcome
CSL703.1	To realize the ba	asic techniques to	build intelligent	systems
CSL703.2	To create know	ledge base and ap	pply appropriate	search techniques used in problem solving.
CSL703.3	To formulate a g	given Problem us	ing rules of AI	
CSL703.4	Implement First	Orer Logic for th	ne given story	
CSL703.5	Apply the super	vised/unsupervise	ed learning algori	ithm.
CSL703.6	To Design a fuz	zy controller syst	em.	
Course Name:	Comp	outational Lab - I	(ASS)	
Course Code		CSL704		
Faculty Name:	Si	hafaque Fatma Sy	red	
Year	4	Sem	VII	
CO Number				Course Outcome
CSL704.1	Analyze static o	ode and program	vulnerabilities us	sing open source tools.
CSL704.2	Explore and ana	alyze network vul	nerabilities using	open source tools.
CSL704.3	Explore and ana	alyze different sec	urity tools to det	ect web application and browser vulnerabilities.
CSL704.4	Explore and ana	alyze different too	ls to secure wire	less networks and routers, and mobile devices and perform penetration testing, and analyze its impact.
CSL704.5	Understand and	implement AAA	using RADIUS a	and TACACS.
CSL704.6	Explore various	forensics tools in	Kali Linux and	use them to acquire, duplicate and analyze data and recover deleted data.

Course Name:	Computational Lab - I (BDA)			
Course Code	CSL704			
Faculty Name:	Sana Shaikh			
Year	4	Sem	VII	
CO Number		-		Course Outcome
CSL704.1	Use the Hadoop file system, debug and run simple Java programs.			
CSL704.2	Learn to write complex MapReduce programs.			
CSL704.3	Learn how to ingest data using Sqoop or Flume.			
CSL704.4	Derive insights using Data Analytics techniques with Hive/PIG/R/Hbase.			
CSL704.5	Implement stream data analysis or predictive analysis using big data tools.			
CSL704.6	Develop real-life projects using Hadoop and its Ecosystem.			
Course Name:	Major Project - I			
Course Code	CSP705			
Faculty Name:	Shafaque Fatma Syed			
Year	4	Sem	VII	
CO Number	Course Outcome			
	Students will be able to identify issues related to social, health, safety, legal etc. and propose technological solutions with due consideration to environment and sustainability.			
CSP705.2	Students will be able to plan the activities, prepare a schedule and budget, execute and monitor the progress by following project management practices.			
CSP705.3	Students will be able to demonstrate team work and team spirit and overcome challanges.			
CSP705.4	Students will be able to demonstrate ethical issues related to project.			
CSP705.5	Students will be able to communicate effectively their project ideas, literature summary and design engineering solutions through reports and presentations.			