Name of Faculty	:	Er. Arushi Bansal, Assistant Professor of CSE
Discipline	:	Computer Science and Engineering
Semester	:	6 th (even)
Subject	:	Andriod programming (CSE-306-L)
Lesson Plan Duration	:	15 weeks (from January to june-2019)

Work Loa	rk Load (Lecture/Practical) per week (in hours): Lectures-03hours, Practical-02 hours					
Week		Theory	Topic	Covered Da	ate and Remarks	
	Lecture	Topic (Including Assignment/Test)	Date	HOD	Director-Principal	
	Day					
	1	Oops concepts				
1 st	2	Android history and version				
	3	Architectural view				
	4	Challenges of mobile platform				
	5	Installing software				
2^{nd}	6	Setup eclipse				
	7	Dalvik vm				
	8	Software stack				
	9	Core building block				
3 rd	10	Emulator				
	11	Manifest.xml				
	12	r.java, hide title bar				
	13	Screen orientation				
4^{th}	14	Working with buttons				
	15	Toast, custom toast				
	16	Button, toggle button			1	
	17	Switch button			1	
5 th	18	Image button				
	19	Check box				
	20	Alert dialer				
	21	Spinner				
6 th	22	Autocomplete text box				
-	23	Rating bar				
	24	Date picker, time picker				
7th		1 st Minor Test				
1	25	Progress bar			1	
8^{th}	26	Ouick contact budge			1	
	27	Analog clock and digital clock				
	28	Working with hardware button				
	29	File download				
9 th	30	Activity lifecycle				
	31	Activity example			1	
	32	Implicit intent, explicit intent			1	
	33	Fragment lifecycle and example			+	
10 th	34	Dynamic fragment			+	
10	35	Option menu, content menu, popup menu			+	
	36	Relative layout, linear layout				
11 th	37	Table layout, grid layout			+	
	38	Array adapter			+	
	39	Array list adapter			+	
	40	Base adapter			+	
12 th	41	Grid view web view scroll view				
12	42	Search view tabhost			-	
	43	Dynamic list view expanded list view			-	
	43	SOI ite API			+	
	45	SQLite miner				
13 th	46	SOLite list view			+	
15	40	XML parsing say			+	
	48	XML parsing sax			+	
	70	2nd Minor Teet	1	L	+	
14 th	/0	XML parsing dom			+	
15 th	+7 50	YML pull parser			+	
	51	ISON basic			+	
	50	ISON parsor			+	
	52	JOON Parser				

Name of Faculty	:	Er. Arushi Bansal, Assistant Professor of CSE
Discipline	:	Computer Science and Engineering
Semester	:	6 th
Subject	:	android programming lab(CSE-306P)
Lesson Plan Duration	:	15 weeks (from January-2019 to April-2019)
Work I and (Lecture/	Practica	1) par weak (in hours): Lectures_Mhours_Practical_02 hours

Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	,	Theory/ Practical (Group-I/ II)	Topic Covered Date and Remarks			
	Practical	Topics/ Programs	Date	HOD	Director-	
	Day				Principal	
1 st	1	Create "hello world" application to "hello				
		world" in the middle of the screen				
		in red colour with white background				
2 nd	2	Create sample application with login module,				
		validate it for login screen				
3 rd	3	Create and validate a login application				
		using username as email id else login				
		button remains disabled				
4 th	4	Create a login application and open a browser				
	_	with any one search engine				
5 th	5	Create an application to display "hello world"				
		input a numeric value				
41.	6					
6 ^{u1}	6	Create spinner with strings from				
		resource folder. On changing spinner value				
th		Minor test 1 St				
oth	7	Create an application to change screen				
8	/	colour according to user choice from menu				
		corour according to user choice from menu				
oth	8	Create a background application that will				
,		open activity on specific time				
10 th	9	Create an application that have spinner with				
10		list of animation names				
11 th	10	Create UI listing diploma engineering				
		branches				
12 th	11	Create an application to call a phone number				
		entered by the user				
13 th	12	Create an application that will create a				
		database to store username and				
		password				
14 th	10	Minor test 2 nd		1		
15 th	13	Create an application to insert, update and				
		delete a record from database				

Name of faculty	:	Bharti
Discipline :	:	Computer Science Engineering
Semester	:	6th
Subject	:	Intelligent Systems
Lesson plan duration	:	15 weeks

Wee		Theory		Practical	TOPIC COVERD DATE AND REMARKS		
ĸ	Lootur	Topie	Dractical	Topia	DATE	ЦОР	DIPECTOR
	Lectur	Topic	Day	Topic	DAIL	nod	PRINCIPA
	Dav		Day				L
	1	Foundation and history of AI		Study of PROLOG			2
1 st	2	Foundation and history of AI	1				
	3	AI problems and techniques	_				
	4	AI programming languages					
	5	Introduction to LISP and PROLOG- problem spaces		Write a program to solve 8			
2^{nd}		and searches	2	queens problem.			
	6	Introduction to LISP and PROLOG- problem spaces					
		and searches					
	7	Blind search strategies					
	8	Breadth first- Depth first- heuristic search techniques					
	9	Breadth first- Depth first- heuristic search techniques		Write a program to solve 8			
3 rd	10	Hill climbing	3	queens problem.			
	11	A * algorithm					
	12	AO* algorithm- game tree					
	13	Min max algorithms		Solve any problem using			
4 th	14	Min max algorithms	4	depth first search.			
	15	Game playing- alpha beta pruning.					
	16	Game playing- alpha beta pruning.					
	17	Knowledge representation issues		Solve any problem using best			
5 th	18	Knowledge representation issues	5	first search.			
	19	Predicate logic- logic programming					
	20	Semantic nets- frames and inheritance					
C th	21	Constraint propagation		Solve 8-puzzle problem using			
6 th	22	Representing knowledge using rules	6	best first search			
	23	Rules based deduction systems.	_				
	24	Rules based deduction systems.	1.553.61				
7 th	25	Descenting and descent states	1 Wilnor		1	1	-
Oth	23	Reasoning under uncertainty	- 7	Solve Robot (traversal)			
0	20	Review of probability	/	Analysis			
	27	Demoster shafer theory	-	Anarysis.			
	20	Heuristic methods	-	Solve traveling selection			
Oth	30	Symbolic reasoning under uncertainty	8	problem			
	31	Statistical reasoning	-	problem			
	32	Fuzzy reasoning					
	33	Temporal reasoning		Find union of two given lists			
10 th	34	Non monotonic reasoning	9	This amon of two given lists			
	35	Planning in situational calculus	-				
	36	Representation for planning					
	37	Partial order planning algorithm	1	Find intersection of two given	1		1
11 th	38	Learning from examples	10	lists			
	39	Discovery as learning					
	40	I earning by analogy					
	41	Explanation based learning,		Find factorial of a number			
12 th	42	Neural nets, Genetic algorithms.	11				T
	43	Principles of Natural language processing					
	44	Principles of Natural language processing	1				
	45	Rule based systems architecture		Find permutation of a set			
13 th	46	Expert systems	12				
	47	Expert systems]				
	48	Knowledge acquisition concepts					
14 th			2 nd Mino	r test			
	49	Knowledge acquisition concepts		Perform concatenation of two			
15 th	50	AI application to robotics	13	sets			
	51	Current trends in intelligent systems	1				
	52	Current trends in intelligent systems					

Name of Faculty	:	Prachi, Assistant Professor of CSE		
Discipline	:	Computer Science and Engineering		
Semester	:	6 th (even)		
Subject	:	computer graphics		
Lesson Plan Duration	:	15 weeks (from January/ February-2019 to April/ May-2019)		
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02hours				

Week	Т	heory/ Practical (Group-I/ II)	Topic	Covered Date	and Remarks
	Practical	Topics/ Programs	Date	HOD	Director-
	Day				Principal
1 st	1	Write a program for 2D line			
		drawing as Raster Graphics			
		Display			
2 nd	2	Write a program for circle drawing as			
		Raster Graphics Display.			
3 rd	3	Write a program for polygon filling as			
		Raster Graphics Display			
4 th	4	Write a program for line clipping			
5 th	5	Write a program for polygon			
		clipping			
6 th	6	Write a program for displaying 3D			
		objects as 2D display using perspective			
		transformation			
7 th		Minor test 1 st			
8 th	7	Write a program for rotation of a 3D			
		object about arbitrary axis.			
9 th	8	Write a program for Hidden surface			
		removal from a 3D object.			
10 th	9	Write a program for Hidden line			
		and surface elimination algo			
11 th	10	Write a program for Z-Buffer	Write a program for Z-Buffer		
		Algorithm			
12 th	11	Write a program for Painter's			
		Algorithm			
13 th	12	Write a program for displaying 3D			
		objects as 2D display using perspective			
		transformation			
14 th		Minor test 2 nd			
15 th	13	Write a program for polygon			
		clipping			

Name of Faculty	:	Prachi, Assistant Professor of CSE
Discipline	:	Computer Science and Engineering
Semester	:	6 th (even)
Subject	:	Computer graphics (CSE 303 E)
Lesson Plan Duration	:	15 weeks (from FEB to MAY-2019)
Work Load (Lecture/Pra	actical) p	er week (in hours): Lecture

Week		Theory	Topic Covered Date and Remarks			
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal	
	1	What is Computer Graphics				
1 st	2	Computer Graphics Applications				
	3	Computer Graphics Hardware and software				
	4	Two dimensional Graphics Primitives				
01	5	Points and Lines				
2114	6	Line drawing algorithms: DDA				
	7	7 Bresenham's; Circle drawing algorithms				
	8	Using polar coordinates				
	9	Bresenham"s circle drawing				
3 rd	10	mid point circle drawing algorithm				
	11	Filled area algorithms				
	12	Scanline: Polygon filling algorithm				
	13	boundary filled algorithm				
4^{th}	14	Two/Three Dimensional Viewing				
	15	The 2-D viewing pipeline				
	16	windows, viewports				
	17	window to view port mapping				
5^{th}	18	Clipping: point, clipping line (algorithms):- 4 bit code				
		algorithm				
	19	Sutherlandcohen algorithm				
	20	parametric line clipping algorithm (Cyrus Beck)				
	21	Polygon clipping algorithm				
6^{th}	22	Sutherland-Hodgeman				
	23	Two dimensional transformations				
	24 transformations translation scaling rotation					
		reflection				
7^{th}		1 st Minor Test				
	25	Three dimensional transformations: Three dimensional				
8 th		graphics concept				
	26	Matrix representation of 3-D Transformations				
	27	Viewing in 3D				
	28	Projections, types of projections				
	29	the mathematics of planner geometric projections				
9 th	30	Hidden surface removal				
	31	Introduction to hidden surface removal				
	32	The Z- buffer algorithm				
	33	scanline algorithm				
10 th	34	area sub-division algorithm				
	35	Representing Curves and Surfaces				
	36	Parametric representation of curves				
11 th	37	Bezier curves				
-	38	BSpline curves				
	39	Parametric representation of surfaces:				
	40	Interpolation method				
12 th	41	Illumination, shading, image manipulation				
12	42	Illumination models			1	

	43	shading models for polygons		
	44	shadows, transparency		
1.0%	45	What is an image		
13.	46	Filtering		
	47	image processing		
	48	geometric transformation of images		
14 th		2 nd Minor Test		
15 th	49	Composition of 3-D transformation		
	50	coordinate systems		
	51	composite transformation		
	52	polygon clipping algorithm		

		Lesson Plan
Name of Faculty	:	Dr. Sanjay Dahiya, Assistant Professor of CSE
Discipline	:	Computer Science and Engineering
Semester	:	CSE-VI th (Even-229)
Subject	:	Analysis & Design of Algorithms (ADA) (CSE-
Lesson Plan Duration	:	15 weeks (from January/ February-2019 to Apr

gorithms (ADA) (CSE-308-L) / February-2019 to April/ May-2019) (3-L) + (2-T) hours y Work Load (Lecture/Practical) ner week (in hours).

Week	$\frac{(J-L) + (J-1)}{Nook}$						
WCCK	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal		
	1	Algorithms					
1^{st}	2	Algorithms as a Technology					
	3	Analysing algorithms					
	4	Asymptotic notations					
	5	Insertion sort					
2^{nd}	6	Query and Problems Redresses					
	7	Divide and Conquer General method					
	8	Binary search					
	9	Merge sort					
3 rd	10	Quick sort					
	11	Query and Problems Redresses					
	12	Strassen"s matrix multiplication algorithms					
	13	Analysis of algorithms for these problems					
4^{th}	14	Sorting and Data Structure: Heapsort					
	15	Hash Tables					
	16	Red Black Trees					
	17	Analysis of Algorithms					
5 th	18	Greedy Method: General method					
_	19	Knapsack problem					
	20	Minimum spanning trees					
	21	Single source paths and analysis of these problems.					
6 th	22	Query and Problems Redresses					
-	23	Dynamic Programming: General method.					
	24	matrix chain multiplication					
7th		1 st Minor Test					
	25	Longest common subsequence					
8 th	26	Optimal binary search trees					
_	27	Analysis of Algorithms					
	28	Ouery and Problems Redresses					
	29						
9 th	30	Back Tracking: General method					
	31	8 queen's problem					
	32	Query and Problems Redresses					
	33	Graph colouring,					
10 th	34	Hamiltonian cycles					
	35	Analysis of these problems					
	36	Query and Problems Redresses					
	37	Branch and Bound: Method					
11 th	38	O/I knapsack					
	39	Traveling salesperson problem					
	40	Query and Problems Redresses					
12 th	41	Analysis of Algorithms					
	42	NP Completeness					
	43	Polynomial time					
	44	Query and Problems Redresses					
	45	Analysis of Algorithms					
13 th	46	NP Completeness and Reducibility					
	47	NP Completeness and Reducibility					
	48	Query and Problems Redresses					
1.⁄1 th	T	2 nd Minor Test	•				
	49	Analysis of Algorithms					
15 th	50	NP-complete problems					
	51	NP-complete problems					
	52	Query and Problems Redresses					

Name of Faculty	:	Sonam Bajaj, Assistant Professor of CSE		
Discipline	:	Computer Science and Engineering		
Semester	:	6 th (even)		
Subject	:	Theory of Automation (CSE- 310L)		
Lesson Plan Duration :		15 weeks (from Jan to May-2019)		
Work I and (I acture/Pre	otical) n	or wook (in hours). I acturas 04 h		

Week		Theory	Topic (Topic Covered Date and Remarks			
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal		
	1	Finite State system					
1^{st}	2	NDFA					
	3	DFA					
	4	Equivalence of DFA and NDFA					
	5	Finite automata with E moves					
2^{nd}	6	Regular expression					
	7	Regular expression conversion					
	8	Arden method conversion					
	9	Concept of basic machine					
3 rd	10	Properties and limitation of FSM					
	11	Magaz mashina with anomalas					
	12	Mooly machine with examples					
	12	Equivalence of Moore and Macly machine					
∕1 th	13	Proportion of regular sets					
4	14	Properties of regular sets					
	15	Application of pumping lomma					
	10	Application of pulliping termina					
5 th	17	Closure properties of regular set					
5	10	My IIII herode theorem Minimization of finite outomate					
	19	Minimization of minite automata					
	20						
Cth	21	Context free grammar					
0	22	Context sensitive grammar					
	23						
	24	Assignment 1 th					
7 th	25	I Minor lest					
Oth	23	Kellioval of useless symbols					
0	20	Ambiguity require grommer					
	27	Chamaly normal form					
	20						
Oth	29	Introduction to pushdown machine					
9	30	Application of pushdown machine					
	22	Application of pushdown machine					
	32	Problems and solutions					
1 Oth	33	Non deterministic turning machine					
10	25	Non deterministic turning machine					
	33	Deterministic turning machine					
	30	Design of turning machine					
11 th	29	PCD problems					
	30	Assignment 2					
	40	Assignment 2 Droblem and solutions					
	40	Chomsky hierarchies					
12 th	41	Chomsky hierarchies of grammar					
	42	Unrestricted grammer					
	43	Context sensitive lenguage					
	44	Palations between languages of class					
1 2th	43	Problem and solutions					
15	40	Examples of grammars					
	4/	Examples of graninals					
	4ð	Dramples of merarcines					
14 th	40	2 Minor rest	I				
15	49	Decie concert of Computability					
	50	Dasic concept of Computability					
	51	Problem and solutions					
	32	Problem and solutions			1		

Name of Faculty	:	Varsha Rani, Assistant professor
Discipline	:	CSE
Semester	:	6 th
Subject	:	Advance Programming

Lesson Plan Duration: 15 weeks (from January, 2019 to July, 2019) Work Load (Lecturer/Practical) per week (in hours): Lectures 08 hours

Week		Theory	Topic Covered Date and Remarks			
	Lecture	Topic (Including Assignment/Test)	Date	HOD	Director-	
	Dav		Dute	nob	Principal	
	1	Review of C language			11110-pui	
1 st	2	Standard library				
	3	Basics of C envioronment				
	4	Preproceesor directives				
	5	Simple c programmes				
2^{nd}	6	Header files				
-	7	Review of data structure				
	8	Array stack queue				
3rd	9	Linked list				
	10	Storage representation				
5	11	Access methods				
	12	Searching methods				
	12					
	13	Sequential search				
4 th	14	Binary search				
	15	Indexes search				
	16	Sorting and types				
	17	Internal sorting				
5 th	18	External sorting				
	19	Their methods				
	20	Bubble sort				
	21	Insertion sort				
6 th	22	Selection sort				
	23	Merge sort				
	24	Heap sort				
7^{th}		Ist Minor Test				
	25	Radix sort				
8 th	26	Quick sort				
	27	Comparison wrt their efficiency				
	28	Introduction to c++				
	29	C++ environment				
9 th	30	Objects				
	31	Access specifiers				
	32	Public, private, and protected				
10 th	33	Constructors				
	34	Their types				
	35	Default and copy				
	36	Destructors				
11^{th}	37	Function overloading				
	38	Operator overloading				
	39	Friend function				
	40	Inheritance concepts				
12 th	41	Virtual function				
	42	Assignment queries				
	43	Inheritance types				
	44	Single inheritance				
	45	Multiple inheritance				
13 th	46	Multilevel inheritance				
	47	Hybrid inheritance				
	48	Hierarchal inheritance				
14^{th}		2 nd Minor Test		1		
15 th	49	Inline function				
	50	Implementing friend function				
	51	Implementing virtual function				
	52	Assignment questions				