# MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

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(An ISO9001:2008 Certified Institution)

Pulladigunta (Village), Vatticherukuru (Mandal),

Guntur-522017, Andhra Pradesh, India

# Department of Computer Science and Engineering

COURSE : Computer Graphics	DEGREE: B.Tech		
COURSE CODE: R1621056	YEAR: II SEMESTER: I		
REGULATION: R16	COURSE TYPE: REGULAR		
ACADEMIC YEAR : 2016-2017	CREDITS: 3		

# Teaching/Instructional Plan

S.NO	Topic Name	No.of hours	Teaching Aid Methodologies	Books
	UNIT- I: 2D Primiti	ves :Output pr	imitives	
1	Line drawing algorithms			
2	Circle drawing algorithm	1	Chalk & Talk	TI
	The state of the s	2	Chalk & Talk	TI
4	The state of the s	2	Chalk & Talk	TI
5	The states of output Diffillities		Chalk & Talk	T1
070	transformations	2	Wi	TI
6.	transformations operations	1	Chalk & Talk	T1
8	Two dimensional viewing	1	Chalk & Talk	Tr.
0,	Line clipping algorithm	2	Chalk & Talk	TI
10	Polygon clipping algorithm	2	Chalk & Talk	TI
10	Curve clipping algorithm , Text clipping algorithm	2	Chalk & Talk	TI
	UNIT-II 3D Concepts Parallel	and D		20.0
11	Three dimensional object representation	2	e projections	
	l Olygons, Curved lines		Chalk & Talk	TI
13.	Splines, Quadric Surfaces		Chalk & Talk	T1
14.	Visualization of data sets		Chalk & Talk	T2
15.	3D transformations-viewing		PPT	T2
16.	Visible surface identification	1	PPT	T2
	UNIT-III Graphics Progra	3	Chalk & Talk	T2
17.		imming Color	Models	
18.	Animations		Chalk & Talk	TI
19.	General Computer Animation	1	Chalk & Talk	TI
20.	Raster Animation	1	Video	TI
21.	Kaster Animation Key frame Animation	1	Chalk & Talk	T2
22	Graphics programmi		Chalk & Talk	TI
23.	Graphics programming using OPENGL Basic graphics primitives	1	Chalk & Talk	T1
24	Drawing three dimensional objects	I	Chalk & Talk	T2
	Jiawing inree dimensional objects	2	Chalk & Talk	12

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25	Drawing three dimensional scenes	1	Challe 8, T. II	
	UNIT-IV Rendering	Introduction	Chalk & Talk	T1
	27 Kendering	miroduction	1 to Shading models	
26.	Flat ,Gourand and phong shading	1 2		
27.	Adding texture to faces	2	Chalk & Talk	T2
	reading texture to faces	1	GROUP	T2
28.			DISCUSSION	N.F.
29.	Building a camera in a program	1	Chalk & Talk	TI
30.	Creating shaded objects	2	Chalk & Talk	T2
31.	Rendering texture, Drawing Shadows	1	Chalk & Talk	T1
	UNIT-V Fractals : Fractals and Self simi	2	Chalk & Talk	W2
32.	Fractals :Fractals and Self similarity			
33.	Peano curves	1	Chalk & Talk	TI
34.	Creating image by iterated functions	1	Chalk & Talk	TI
35.	Mandelbrot sets	1	Chalk & Talk	TI
36.	Julia Sets	1	Chalk & Talk	TI
37	Random Fractals	1	Chalk & Talk	TI
27.1		1	CL II a m is	T2
38 /	UNIT-VI Overview	of Ray Tra	cing	12
20.	Overview of Ray Tracing	1	Chalk & Talk,	TI
39. 1	ntersecting rays with other primitives		W3	11
40. I	ntersecting rays with other primitives	1	Chalk & Talk	T1
41. 4	Adding Surface texture	1	Chalk & Talk	TI
42. A	Adding Surface texture	1	Chalk & Talk	T1
		1	Chalk & Talk,	T2
43. R	eflections and Transparency		W1	12
++. IK	effections and Transparance		Chalk & Talk	TI
45. B	oolean operations on Objects	1	Chalk & Talk	TI
	Total No. of Hours	1	Chalk & Talk	TI
-	Total Ivo. of Flours	58		

#### TEXT BOOKS:

T1	Donald Hearn, Pauline Baker, Computer Graphics - C Version, second edition Pearson Education, 2004.
T2	F.S. Hill, Computer Graphics using OPENICL C.
	F.S. Hill, Computer Graphics using OPENGL, Second edition, Pearson Education, 2003.

## REFERENCE BOOKS:

R1 James D. Foley, Andries Van Dam, Steven K. Feiner, John F. Hughes, Computer Graphics- Principles and practice, Second Edition in C, Pearson Education, 2007

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#### WEB REFERENCE:

WI	https://www.designtechsys.com/articles/computer-geometric-modelling.
W2	https://graphics.fandom.com/wiki/Texture_mapping
W3	https://web.cs.wpi.edu/~matt/courses/cs563/talks/raytrace/RTAoverview.html
	mate courses/cs363/talks/raytrace/RTAoverview.html

# Instructional Methods and Pedagogicals:

The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

S.No.	INSTRUCTIONALMETHODOLOGY	YES/NO
1.	Chalk & Talk	
2	PPT	YES
3	ATTENDED.	YES
	NPTEL Videos	YES
4	Guest Lectures & Workshops	YES
5	Student centric Learning:	TES .
		YES
	and another and another and another and another anothe	YES
	iii. Assignment	YES
	iv. Quiz	YES
	v. Learning from Industrial visits	NO
	vi. Brain Storming	NO
	vii. Minutes of paper	NO
	viii. Puzzles	110,0000
	ix. TPS(Think Pair Share)	YES
	The state of the s	NO

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# Department of Computer Science and Engineering

COURSE :CRYPTOGRAPHY AND NETWORK SECURITY	DEGREE: B.Tech
COURSE CODE: RT41051	YEAR: IV SEMESTER: I
REGULATION: R13	YEAR: IV SEMESTER: I COURSE TYPE: REGULAR
ACADEMIC YEAR : 2018-2019	CREDITS: 3

# Teaching/Instructional Plan

Unit/Topic No.	TopicName	No ofClasse sRequir	Teaching Aid Methodologi	Book
I	ClassicalEncryptionTechniques	ed	es	
1.1	Securityattacks			
1.2	services &mechanisms, Symmetric Cipher Model	1	Chalk&Talk	T1
1.3		2	Chalk&Talk	Ti
20.00	Cyberthreatsandtheirdefensemeasures		PPT Chalk&Talk	
1.4	webbased attacks	† i	The state of the s	TI
1.5	SQLinjection&Defense techniques	+ ;	Chalk&Talk	Ti
1.6	Bufferoverflow	1	Chalk&Talk	T1
1.7	formatstringvulnerabilities	1	Chalk&Talk	T1
1.8	TCP sessionhijacking	1	Chalk&Talk	TI
1.9	Genericmethods	I	Chalk&Talk	T1
	ARPattacks	1	Chalk&Talk	TI
		1	Chalk&Talk	TI
1.11	routetablemodification	1	PPT	
1.12	UDPhijacking	-	Chalk&Talk	T1
i	Tutorial- 1(QuericsonSecurityAttacks,ARPattacks,TCPsess ionhijacking)	-	Chalk&Talk	TI
II I	BlockCiphers&SymmetricKeyCryptography			
4.1	raditionalBlockCipher Structure			
2.2 I	DES,BlockCipherDesignPrinciples	1	Chalk&Talk	TI
	AESStructure	2	Chalk&Talk PPT	TI
		1	Chalk&Talk	TI
- 4	ransformationfunctions	1	PPT Chalk&Talk	700
	keyExpansion,	1		TI
2.6	Blowfish	RINGIPAL	Chalk&Talk	TI
		-AUL AKSHMI	Chalk&Talk	TI

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2.7	IDEA	1	Chalk&Talk	T
2.8	BlockCipherModesofOperations	1	PPT Chalk&Talk	701
	Tutorial- 1(QueriesonDES,BlockCipherDesignPrinciples, DES,BlockCipher)DesignPrinciples		Charke Talk	T
m	NumberTheory&AsymmetricKeyCryptography			
3.1	PrimeandRelativelyPrimeNumbers,ModularArithme tic,	1	Chalk&Talk	T1
3.2	Fermat'sandEuler'sTheorems,	2	Chalk&Talk	771
3,3	TheChineseRemaindertheorem	1	Chalk&Talk	TI
3.4	Principles	-i-	Chalk&Talk	TI
3.5	publickeycryptographyalgorithms	2	Chalk&Talk	TI TI
3.6	RSAAlgorithms	1	PPT Chalk&Talk	
3.7	DiffieHellman KeyExchange		Chalk&Talk	TI
3.9	Elgamalencryption &decryption	i	Chalk&Talk	TI TI
3.9	EllipticCurveCryptography	I	Chalk&Talk PPT	TI
	Tutorial- 1(QueriesonFermat'sandEuler'sTheorems,TheC hineseRtheorem)		111	TI
IV	CryptographicHashFunctions&DigitalSignatures	_		
4.1	Application of Cryptographic hash Functions	-	CI II om ii	
4.2	Requirements &Security		Chalk&Talk	TI
4.3	SecureHashAlgorithm		Chalk&Talk	T1
4.4	MessageAuthenticationFunctions	1	Chalk&Talk Chalk&Talk	T1
4.5	Requirements&Security,	1	PPT Challenger	
4.6	HMAC&CMAC	1	Chalk&Talk	TI
4.7	DigitalSignatures	-	Chalk&Talk	TI
4.8	NISTDigitalSignatureAlgorithm	2	Chalk&Talk Chalk&Talk	TI TI
4.9	Keymanagement&distribution	1	PPT	
1.10	Keydistribution	1	Chalk&Talk	TI
	Tutorial -1(QueriesonSecureHash Algorithm HMAC&CMAC)	3340	Chalk&Talk	TI
V	UserAuthentication, TransportLayer Security Email			
5.1	Remoteuserauthenticationprinciples			
5.2	Kerberos	1	Chalk&Talk	TI
5.3	TransportLevelSecurity	1	Chalk&Talk	TI
5.4	WebSecurityRequirements	1	Chalk&Talk	T1
5.5	SecureSocketLayer(SSL)	1	Chalk&Talk PPT	TI
	- semicody (GGE)	PRINCIPA	- Chalk&Talk	TI

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5.6	TransportLayerSecurity(TLS)	1	Chalk&Talk	77
5.7	SecureShell(SSH)	-		T
5.8	PrettyGoodPrivacy(PGP)	1	Chalk&Talk	T
5.9		1.	Chalk&Talk PPT	T.
2.,	S/MIME	2	Chalk&Talk	TI
***	Tutorial -1(QueriesonSSL,TLS,SSH&PGP)			- 11
VI	IPSecurity&IntrusionDetectionSystems			
6.1	IPSecurityOverview,IPSecurityArchitecture	1	Chalk&Talk	TI
6.2	AuthenticationHeader		PPT	
6.3	EncapsulatingSecurityPayload	1	Chalk&Talk	TI
6.4	Combining Sequently 1 ayload	2	Chalk&Talk	TI
6.5	CombiningSecurityAssociations and KeyManagement	2	Chalk&Talk PPT	T1
0.00	Intrusiondetection:Overview	1	Chalk&Talk	T1
6.6	ApproachesforIDS/IPS		PPT	• • •
6.7		1	Chalk&Talk	T1
SSAN	SignaturebasedIDS,HostbasedIDS/IPS	1	Chalk&Talk	TI
	Tutorial-1(QueriesonIPSecurityIDS/IPS)			
	TotalNo.ofhours:	63	-	

#### TEXT BOOKS:

TI	Cryptography&NetworkSecurity:PrinciplesandPractices,WilliamStallings,PEA,Sixthedition
T2	IntroductiontoComputerNetworks&CyberSecurity,ChwanHwaWu,J.DavidIrwin,CRCpress
	Hack Proofing your Network, Russell, Kandinsky, Forest Puppy, WileyDreamtech

#### REFERENCE BOOKS:

RI	Network Security and Cryptography, Bernard Meneges, Cengage Learning.
	REFERENCE:

W1	http://www.geeksforgeeks.org > cryptography-and-network-s
W2	http://www.tutorialspoint.com > cryptography
	- Typing aprily

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# Department of Computer Science and Engineering

## Instructional Methods and Pedagogies

The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

S.No.	INSTRUCTIONALMETHODOLOGY	YES/NO
1.	Chalk & Talk	YES
2	PPT	YES
3	NPTEL Videos	YES
4	Guest Lectures & Workshops	TES
5	Learning from Industrial visits	
6	Student centric Learning:	
	i. Seminar Method	YES
	ii. Group discussions	1 E3
	iii. Assignment	YES
	iv. Quiz	YES
	v. Learning from Industrial visits	7.50
	vi. Brain Storming	
	vii. Minutes of paper	
	viii. Puzzles	YES
	ix. TPS(Think Pair Share)	YES

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# Department of Computer Science and Engineering

COURSE : DATA STRUCTURES THROUGH C++	DEGREE: B.Tech
COURSE CODE: R1621055	YEAR: II SEMESTER: I
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2017-2018	CREDITS: 3

# Teaching/Instructional Plan

S.No	Topic(s)	No. of Hours	Reference Book	Teaching Methodolog
		ARRAYS		
1	Abstract Data Types and the C++ Class	1	T2	Chalk & talk
2	An Introduction to C++ Class-Data Abstraction and Encapsulation in C++	1	T2	Chalk & talk
3	Declaring Class Objects and Invoking Member Functions	1	T2	Chalk & talk
4	Abstract Data Types and the C++ Class	1	T2	Chalk & talk
5	Special Class Operations	1	TI	Chalk & talk
6	Miscellaneous Topics	1	TI	
7	The Array as an Abstract Data Type	i		Chalk & talk
8	Special Class Operations	- '	TI	Chalk & talk
	The state of the s	1	T1	Chalk & talk
9	The Polynomial Abstract Data type- Polynomial Representation	1	Т3	Chalk & talk
10	Polynomial Addition	1	Т3	Chalk & talk
11	Spares Matrices	1		PPT-1 Digital Education
12	The Polynomial Abstract Data type- Polynomial Representation	1	T3	Chalk & talk
13	Abstract Data Types and the C++ Class	1	Т3	Chalk & talk
14	Templates in C++	1	TI	Chalk & talk
	UNIT-II STACKS	S AND QUEUES		Chark & laik
15	Types of Data Structures	1	TI	Chalk & talk
16	The Stack Abstract Data Type	L	WI	Digital Education
17	Applications of Stack	1	TI	Chalk & talk
18	The Queue Abstract Data Type	1	TI	
19	Sub typing and Inheritance in C++	1	TI	Chalk & talk Chalk & talk
20	Evaluation of Expressions	1	TI	A STATE OF THE PARTY OF THE PAR
21	The Queue Abstract Data Type	1	TI	Chalk & talk Chalk & talk
22	Expression Traversals	PRINCIPAL	AH	PPT-2
	WOWER CAN	PRINCIPAL DENISHMAN LINENS AND RESING OF USEN CANTAL GUNT LADIGUNTA, GUNT	UR-17-	

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### Department of Computer Science and Engineering

				Digital Education
23	Single Linked List and Chains	1	RI	Chalk & tal
24	Asymptotic Notations Analysis			Seminar
		LINKED LIST		1 3377111441
25	Pointer manipulation in C++	1	TI	Chalk & tal
26	Single Linked List and Chains	1	R1	Chalk & tal
27	The Template Class Chain	1	TI	Chalk & tal
28	Circular Lists	1	TI	Chalk & tal
29	Chain Operations	1	T1	Chalk & tal
30	Circular Lists		T1	Chalk & tal
31	Linked Stacks and Queues	1	R1	Chalk & tal
32	Linked Queues	1	R1	Chalk & tal
33	Polynomiats	1		PPT-3 Digital Education
34	Sparse Matrices	1	RI	Chalk & tal
35	Doubly Linked Lists	1	TI	Chalk & tal
36	Representation of Generalized Lists	1	R2	Chalk & tal
37	Applications of Linked List	1	T1	Chalk & tal
38	Recursive Algorithms for Lists	1	R2	Chalk & tal
39	Shared and Recursive Lists	1	T1	Chalk & tal
	UNIT-	IV TREES		
40	Trees	1		PPT-4 Digital Education
41	Recursive Algorithms for Lists	1	T1	Chalk & tall
12	Binary Trees - Properties Representation	1	R2	Chalk & tall
13	Traversals	1	W2	Digital Education
14	Thread Binary Trees	1	TI	Chalk & talk
15	Thread Binary Trees	1	TI	Chalk & talk
16	Heaps	1	W3	Chalk & talk
17	Priority Queue	1	W4	Chalk & talk
18	Binary Search Trees	i	W5	Digital Education
	UNIT-V	GRAPHS		
9	operations The Graph Abstract Data Type	1	T1	Chalk & talk
0	BFS & DFS, Spanning Trees	- All al		PPT-5
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				Education
51	Connected Components	1	TI	Chalk & talk
52	Minimum Cost Spanning Trees-Algorithms	t	T1	Chalk & talk
53	Minimum Cost Spanning Trees-Algorithms	1	T1	Chalk & talk
54	Shortest Paths and Transitive Closure	1	TI	Chalk & talk
55	Single Source/All Destination: Nonnegative Edge Cost	1	TI	Chalk & talk
56	Single Source/All Destination: General Weights	1	T1	Chalk & talk
57	Bellmen Ford Algorithm	1	T2	Chalk & talk
	UNIT-VI S	ORTING		
58	Insertion Sort	1	W6	Chalk & talk
59	Quick Sort	î		NPTEL Video Digital Education
60	Merge Sort Merging	1 -	R3	Chalk & talk
61	Iterative Merge Sort	1	TI	Chalk & talk
52	Recursive Merge Sort	1	TI	Chalk & talk
53	Heap Sort	1	TI	Chalk & talk
54	Selection Sort	ī		NPTEL Video Digital Education
2.90	Bucket Sort Technique FOTAL NO.OF CLASSES	1	TI	Chalk & talk

#### TEXT BOOKS:

TI	Fundamentals of Data Structures in C++, Ellis Horowitz, Sartaj Sahni and Dinesh Mehta, 2nd Edition, Universities Press (India) Pvt. Ltd.
T2	Data structures and Algorithm Analysis in C++, Mark Allen Weiss, Pearson Education.  Ltd., Second Edition.
T3	Data structures and Algorithms in C++, Michael T.Goodrich, R.Tamassia and .Mount, Wiley student edition, John Wiley and Sons.

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#### REFERENCE BOOKS:

RI	Data structures and algorithms in C++, 3rd Edition, Adam Drozdek, Thomson.
R2	Data structures using C and C++, Langsam, Augenstein and Tanenbaum, PHI.
R3	Problem solving with C++, The OOP, Fourth edition, W.Savitch, Pearson education

#### WEB REFERENCE:

WI	https://en.wikipedia.org/wiki/List_of_data_structures
W2	https://www.geeksforgeeks.org/tree-traversals-inorder-preorder-and-postorder/
W3	https://www.gecksforgeeks.org/heap-data-structure/
W4	https://www.tutorialspoint.com/data_structures_algorithms/priority_queue
W5	https://www.geeksforgeeks.org/bingry.geeks.algorithms/priority_queue
W6	https://www.geeksforgeeks.org/binary-search-tree-set-1-search-and-insertion https://www.geeksforgeeks.org/sorting-algorithms/
W7	https://nptel.ac.in/courses/106102064/

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### Instructional Methods and Pedagogicals:

The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

S.No.	INSTRUCTIONALMETHODOLOGY	YES/NO
1.	Chalk & Talk	YES
2	PPT	YES
3	NPTEL Videos	YES
4	Guest Lectures & Workshops	YES
5	Student centric Learning:	
	i. Seminar Method	YES
	ii. Group discussions	YES
	iii. Assignment	YES
	iv. Quiz	YES
	v. Learning from Industrial visits	NO
	vi. Brain Storming	NO
	vii. Minutes of paper	NO
	viii. Puzzles	YES
	ix. TPS(Think Pair Share)	NO

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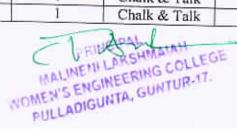
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## Department of Computer Science and Engineering

COURSE : Software Architecture Design Patterns	DEGREE: B.Tech.
COURSE CODE: R1641052	YEAR: IV SEMESTER: I
REGULATION: R16	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2019-2020	CREDITS: 3

### Teaching/Instructional Plan

S.NO	Topic Name	No.of hours	Teaching Aid Methodologies	Books
UNIT- I:	Envisioning Architecture		8	
1.	Business Cycle	1	Chalk & Talk	TI
2,	What is Software Architecture	1	Chalk & Talk	TI
3.	Architectural patterns	i	Chalk & Talk	TI
4.	The street of th	1	Chalk & Talk	TI
5.	reference architectures	i	Chalk & Talk	T1
6.	architectural structures and views	ī	Chalk & Talk	
7.	Creating and Architecture Quality Attributes	i	Chalk & Talk	T1
8.		31	Chalk & Talk	T1
9.	patterns	1	Chalk & Talk	T2
10.	designing the Architecture	1	PPT	T2
11.	Documenting software architectures	1	PPT	T2
12.	Reconstructing Software Architecture	1	Chalk & Talk	T2
UNIT- II:	: Analyzing Architecture		Chan to Tan	12
	Architecture Evaluation	2	PPT	T2
14.	Architecture design decision making	1	PPT	T2
	ATAM, CBAM Moving from One System to Many Software Product Lines	2	Chalk & Talk	WI
	Building systems from off the shelf components	2	PPT	T2
17.	Software architecture in future.	2	Chalk & Talk	TI
	Patterns		The second	- 11
	Pattern Description	1	PPT	TI
	Organizing catalogs	1	Chalk & Talk	TI
20.	role in solving design problems	1	Video	TI
21.	Selection and usage	I	Chalk & Talk	T2
22.	Abstract Factory Design Pattern	1	Chalk & Talk	T1





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23.	Builder Design Pattern	1	PPT	TI
	Factory method Design Pattern	i	Chalk & Talk	T2
25.	Prototype Design Pattern	1	Chalk & Talk	T2
	Singleton Design Pattern	1	Chalk & Talk	TI
1000	Structural Patterns			
27.	Adapter Design Pattern	1	PPT	T2
28.	Bridge Design Pattern	1	PPT	T2
29.	Composite Design Pattern	1	Chalk & Talk	Т3
30.	Decorator Design Pattern	1	Chalk & Talk	T2
	Façade Design Pattern	1	PPT	TI
	Flyweight Design Pattern	1	PPT	WI
33.	PROXY Design Pattern	1	Chalk & Talk	TI
IT-V:	Behavioral Patterns		The second secon	
34.	Chain of responsibility Design Pattern	1	PPT	T2
35.	Command Design Pattern	i	PPT	T2
36.	Interpreter Design Pattern	1	PPT	T2
	Iterator Design Pattern	1	PPT	T2
38.	Mediator Design Pattern		PPT	T2
39.	Memento Design Pattern	i	Chalk & Talk	T2
40.	Observer Design Pattern	1	Chalk & Talk	T2
	State Design Pattern		Chalk & Talk	T2
42.	Strategy Design Pattern	1	Chalk & Talk	WI
43.	template method Design Pattern	L	Chalk & Talk	T2
44.	Visitor Design Pattern	1	Chalk & Talk	T2
The state of the s	Case Studies			
	A-7E - A case study in utilizing architectural structures	1	Chalk & Talk	T2
46.	The World Wide Web - a case study in Interoperability	1	Chalk & Talk	T2
	Air Traffic Control – a case study in designing for high availability	1	Chalk & Talk	T2
	Celsius Tech – a case study in product line development.	1	Chalk & Talk	T2
	Design Problems	1	Chalk & Talk	T2
	Document Structure	1	Chalk & Talk	T2
	Formatting	1	Chalk & Talk	TI
	Embellishing the User Interface	1	Chalk & Talk	T2
53.	Supporting Multiple Look-and-Feel	1	Chalk & Talk	T1
			DWCIPAL	est f

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## Department of Computer Science and Engineering

Standards			
54. Supporting Multiple Window Systems	+ +	Chalk & Talk	TI
55. User Operations	1	PPT	T1
<ol> <li>Spelling Checking and Hyphenation.</li> </ol>	1	PPT	Ti

#### TEXT BOOKS:

T1	Software Architecture in Practice, second edition, Len Bass, Paul Clements & Rick Kazman, Pearson Education, 2003.	
T2	Design Patterns, Erich Gamma, Pearson Education, 1995.	

#### REFERENCE BOOKS:

RI	Beyond Software architecture, Luke Hohmann, Addison wesley, 2003.	
R2	Software architecture, David M. Dikel, David Kane and James R. Wilson, Prentice Hall	
	PTR,2001.	

#### WEB REFERENCE:

W1 https://sites.google.com/site/softwarcarchitectureinpractice

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#### Department of Computer Science and Engineering

#### Instructional Methods and Pedagogies

The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

S.No.	INSTRUCTIONALMETHODOLOGY	YES/NO			
1.	Chalk & Talk	YES			
2	PPT	YES			
3	NPTEL Videos	NO			
4	Guest Lectures & Workshops	YES			
5	Learning from Industrial visits	NO			
6	Student centric Learning:				
	i. Seminar Method	YES			
	ii. Group discussions	YES			
	iii. Assignment	YES			
	iv. Quiz	YES			
	v. Learning from Industrial visits	YES			
	vi. Brain Storming	YES			
	vii. Minutes of paper	YES			
	viii. Puzzles	YES			
	ix. TPS(Think Pair Share)	YES			

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#### Department of Computer Science and Engineering

### Teaching/Instructional Plan

COURSE: WEB TECHNOLOGIES	DEGREE: B.Tech	
COURSE CODE: R1641053	YEAR: IV SEMESTER: I	
REGULATION: R16	COURSE TYPE: REGULAR	
ACADEMIC YEAR : 2020-2021	CREDITS: 3	

s. NO	L./T. No.	Topics covered	Teaching Aid	Text Book/ Referen
		UNIT - I		
1	L-01	HTML introduction	GB & PC	TB-1
2	L-02	CSS Basic Syntax	GB & PC	TB-I
3	L-03	Standard HTML Document Structure	GB & PC	TB-1
4	L-04	Basic Text Markup	GB & PC	TB-1
5	L-05	Images	GB & PC	TB-1
6	L-06	Hypertext Links, Lists	GB & PC	TB-1
7	L-07	Tables	GB & PC	TB-1
8	L-08	Forms	GB & PC	TB-1
9	L-09	HTML5	GB & PC	TB-1
10	L-10	CSS: Levels of Style Sheets	GB & PC	TB-1
11	L-11	Style Specification Formats	GB & PC	TB-1
12	L-12	Selector Forms	GB & PC	TB-1
13	L-13	The Box Model	GB & PC	TB-I
14	L-14	Conflict Resolution	GB & PC	TB-1
15		TUTORIAL - 1	GDGTC	10-1
		UNIT - II		
16	L-15	Java script The Basic of Java script	GB & PC	TB-I
17	L-16	Objects	GB & PC	TB-1
18	L-17	Primitives Operations and Expressions	GB & PC	TB-1
19	L-18	Screen Output and Keyboard Input	GB & PC	TB-I
20	L-19	Control Statements	GB & PC	TB-1
21	L-20	Object Creation and Modification	GB & PC	TB-1
22	L-21	Arrays	GB & PC	TB-1
23	L-22	Functions	GB & PC	TB-1
24	L-23	Constructors	GB & PC	TB-1
25	L-24			TB-1
		Pattern Matching using Regular Expressions  Pattern Matching using Regular Expressions  PRINTING ASHMANAH  WOMEN'S ENGLISHED ASHMANAH  PULLADIGUNTA, GUNTUR-	EGT	

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26	L-25	DHTML: Positioning Moving and Changing Elements	GB & PC	TB-
27		TUTORIAL - 2		
	-17-	UNIT - III		
28	L-26	XML: Document type Definition	GB & PC	TB-
29	L-27	XML schemas	GB & PC	TB-
30	L-28	Document object model	GB & PC	TB-
31	L-29	XSLT	GB & PC	TB-
32	L-30	DOM and SAX Approaches.	GB & PC	TB-
33	L-31	AJAX A New Approach: Introduction to AJAX,	GB & PC	TB-:
34	L-32	Integrating PHP and AJAX.	GB & PC	TB-3
35		TUTORIAL - 3	- OD CET C	1.15-
		UNIT - IV		
36	L-33	PHP Programming: Introducing PHP	GB & PC	TB-1
37	L-34	Creating PHP script	GB & PC	TB-1
38	L-35	Running PHP script.	GB & PC	TB-1
39	L-36	Working with variables and constants	GB & PC	TB-1
40	L-37	Data types, Operators.	GB & PC	TB-1
41	L-38	Conditional statements	GB & PC	TB-1
42	L-39	Control statements	GB & PC	
43	L-40	Arrays	GB & PC	TB-1
44	L-41	functions.		TB-J
45	L-42	Working with forms and Databases such as MySQL.	GB & PC	TB-1
46		TUTORIAL - 4		
		UNIT - V		_
47	L-43	Introduction to PERL	GB & PC	TB-1
48	L-44	Operators and if statements	GB & PC	The second second
49	L-45	Program design and control structures	GB & PC	TB-1
50	L-46	Arrays	The second secon	TB-I
51	L-47	Hashs and File handling	GB & PC	TB-I
52	L-48	Regular expressions	GB & PC	TB-1
53	L-49	Subroutines	GB & PC	TB-1
54	L-50	Retrieving documents from the web with Perl.	GB & PC	TB-1
55	-	TUTORIAL - 5	GB & PC	TB-1
		UNIT - VI		
56	L-51	Introduction to Ruby	CD e nc	11175 1
57	L-52	Variables, types	GB & PC	TB-1
58	L-53	simple I/O	GB & PC	TB-1
59	L-54	Control	GB & PC	TB-1
60	L-55	Arrays	GB & PC	TB-1
61	L-56	Hashes, Methods, Classes	GB & PC	TB-1
62	L-57	Iterators, Pattern Matching. Overview of Rails.	GB & PC	TB-1
63		TUTORIAL - 6	GB & PC	TB-1

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## Department of Computer Science and Engineering

#### TEXT BOOKS:

TI	Programming the World Wide Web, Robet W Sebesta, 7ed, Pearson.	
T2	Web Technologies, Uttam K Roy, Oxford	
Т3	The Web Warrior Guide to Web Programming, Bai, Ekedahl, Farrelll, Gosselin, Zak, Karparhi, MacIntyre, Morrissey, Cengage	

#### REFERENCE BOOKS:

RI	Ruby on Rails Up and Running, Lightning fast Web development, Bruce Tate, Curt Hibbs, Oreilly(2006)
R2	Programming Perl, 4ed, Tom Christiansen, Jonathan Orwant, Oreilly (2012)
R3	Web Technologies, HTML< JavaScript, PHP, Java, JSP, XML and AJAX, Black book, Dream Tech.
R4	An Introduction to Web Design, Programming, Paul S Wang, Sanda S Katila, Cengage Learning
R5	http://www.upriss.org.uk/perl/PerlCourse.html.

#### WEB REFERENCE:

https://www.w3schools.com/html/html_lists.asp
https://www.geeksforgeeks.org/dhtml-introduction/
https://www.wikihow.com/Write-PHP-Scripts
https://www.youtube.com/watch?y=x0D7TxGchH
https://www.slideshare.net/kim.mens/introduction-to-ruby-52855780

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## Department of Computer Science and Engineering

#### Instructional Methods and Pedagogies

19

The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

S.No.	INSTRUCTIONALMETHODOLOGY	YES/NO		
1.	Chalk & Talk	YES		
2	PPT	YES		
3	NPTEL Videos	un reservo		
4	Guest Lectures & Workshops	YES		
5	Learning from Industrial visits			
6	Student centric Learning:			
	i. Seminar Method	YES		
	ii. Group discussions	YES		
	iii. Assignment	YES		
	iv. Quiz	YES		
	v. Learning from Industrial visits	YES		
	vi. Brain Storming	YES		
	vii. Minutes of paper	YES		
	viii, Puzzles	YES		
	ix. TPS(Think Pair Share)	YES		

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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 12-06-2017

#### **LESSON PLAN**

Subject Code	C206
Subject Name	RANDOM VARIABLES & STOCHASTIC AND PROCESSES
Regulation	R16
Year & Sem	11&1
Academic Year	2017-18

S.No. Unit/ Topic No.	Topic Name	No. of Classes Required
	UNIT I – The Random Variable	
1	Introduction to Probability, Experiments and Sample Spaces, Types and Probability Definition and Axioms	1
2	Introduction to Theory of Probability	1
3	Mathematical Model of Experiments, Probability as a Relative Frequency, Joint Probability, Conditional Probability, Total Probability, Independent Events	1
4	Definition of a Random Variable, Conditions for a Function to be a Random Variable.  Discrete Random Variable examples	1
5	Types of Random Variables such as Discrete and Continuous, Mixed Random Variable and problems on discrete and continuous random variables	1
6	Define Distribution function and prove its properties  Define Density functions and prove its properties	1
7	Binomial, Poisson, Uniform Random variables and its applications *	1
8	Gaussian Random variable significance and density and distribution function expressions	1
9	Exponential significance and its applications  Rayleigh significance and its applications	1
10	Conditional Distribution, Conditional Density and derive its Properties.	1
11	Describe about various methods of defining conditioning event:  PRINCIPAL  MALINENI	1
	UNIT-II OPERATION ON ONE RANDOM VARIABLE - EXPECTATIONS NEERING CO.	i
12	Introduction, Expected Value of a Random Variable, Function of a Random Variable and understand with an example problem	17, F





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13	Introduction to Moments	1
14	Define Moments and Moments about the Origin	1
14	Central Moments, Variance and Skew derivations and its significance	
15	Chebychev's Inequality theorem and proof	1
16	Characteristic Function significance and its properties	1
17	Describe about Moment Generating Function and state its properties	1
18	Understand about Transformations of a Random Variable: Monotonic Transformations for a Continuous Random Variable	1 .
19	Describe about Non-monotonic Transformations of Continuous Random Variable with an example	1
20	Problem on variance calculation	1
21	Problems on transformation or random variables	1
22	Problems on chebychev's inequality	1
	UNIT-III MULTIPLE RANDOM VARIABLES : OPERATIONS ON MULTIPLE RV :	
23	Vector Random Variables Concept with neat sketch →	1
24	Joint Distributed Random Variables	1
25	Joint Distribution Function and derive its Properties of Joint Distribution, Marginal Distribution Functions with examples Conditional Distribution and Density –Statistical Independence,	1
26	Describe about Sum of Two Random Variables, Sum of Several Random Variables	1
27	Central Limit Theorem	1
28	State and explain Central Limit Theorem, equal Distribution,	1
29	Expected Value of a Function of Random Variables,	1
30	Explain about Joint Moments about the Origin  PRINCIPAL  MALNENI LAKSHI	1 MAIAH
30	Explain about Joint Central Moments1  WOMEN'S ENGINEERIN  PULLADIGUNTA, GU	G COL
31	Problems on Joint Moments	1
32	Describe Joint Characteristic Functions in detail	1
	Derive Jointly Gaussian Random Variables: Two Random Variables case, N Random	1



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

34	Describe about Transformations of Multiple Random Variables	1
35	Explain in detail about Linear Transformations of Gaussian Random Variables.	1
	UNIT-IV RANDOM PROCESSES – TEMPORAL CHARACTERISTICS	
36	Explain about the Random Process Concept, Classification of Processes, Deterministic and Nondeterministic Processes	1
37	Differences between different types of random processes	1
38	Describe about Distribution and Density Functions, also explain the concept of Stationarity and Statistical Independence.	1
39	Describe First-Order Stationary Processes, Second- Order and Wide-Sense Stationarity, (N-Order) and Strict-Sense Stationarity with necessary equations	1
40	Describe about Time Averages and Ergodicity, Mean-Ergodic Processes,	1
41	Ergodic Processes	1
42	Describe about Autocorrelation Function and derive its Properties  Explain about Cross-Correlation Function and derive its Properties	1
43	Significance and description of Covariance Functions, Gaussian Random Processes Explain in detail about Poisson Random Process.	1
44	Problems on stationarity and ergodicity	1
45	Problems on autocorrelation and cross correlation functions	1
	UNIT –V RANDOM PROCESSES – SPECTRAL CHARACTERISTICS	****
46	Introduction to Power spectral density	1 ·
47	Derive the relationship between Power Spectrum and Autocorrelation Function, Autocorrelation of a signal and energy spectral density in communications	1
48	Autocorrelation of a signal and energy spectral density	1
49	Describe the Cross-Power Density Spectrum and prove its properties	1
50	Derive the relationship between Cross-Power Spectrum and COF Function.	1
51	Problems on power density spectrum  Problems on cross power density spectrum  MALINENI LAKSHMAIAH  WOMEN'S ENGINEERING COLLE  PULLADIGUNTA, GUNTUR-17,	g# <b> 1</b>
	UNIT-VI LINEAR SYSTEMS WITH RANDOM INPUTS	



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

	Convolution	
53	Relate Mean and Mean-squared Value of System Response, autocorrelation Function of Response,	1
54	Obtain the Cross-Correlation Functions of Input and Output, Spectral Characteristics of System Response: Power Density Spectrum of Response,	1
55	Derive relation between Cross-Power Density Spectrums of Input and Output	1
56	Explain about Band pass, Band-Limited and Narrowband Processes	1
57	Noise in Communication Systems	1
58	Describe about Modeling of Noise Sources: Resistive (Thermal) Noise Source, Explain in detail about Arbitrary Noise Sources	1
59	Define Effective Noise Temperature, Average Noise Figures	1
60	Derive the expression for Average Noise Figure of cascaded networks	1
61	Problems Average Noise Figures, Effective Noise temperatures	1
63	Problems on Average noise figure of Cascaded networks	1
	Content Beyond the Syllabus	
65	Bayees' Theorem and its significance	1
66	Random Signal Processing importance is not included in the syllabus	1
al no o	f hours	66

#### TEXT BOOKS:

- 1. Probability, Random Variables & Random Signal Principles, Peyton Z. Peebles, TMH, 4th Edition, 2001.
- 2. Probability, Random Variables and Stochastic Processes, Athanasios Papoulis and S.Unnikrisha, PHI, 4th Edition, 2002.

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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### REFERENCE BOOKS:

- 1. Probability Theory and Stochastic Processes B. Prabhakara Rao, BS Publications
- 2. Probability and Random Processes with Applications to Signal Processing, Henry Stark and John W. Woods, Pearson Education, 3rd Edition.
- 3. Schaum's Outline of Probability, Random Variables, and Random Processes.
- 4. An Introduction to Random Signals and Communication Theory, B.P. Lathi, International Textbook, 1968.
- 5. Random Process Ludeman, John Wiley
- 6. Probability Theory and Random Processes, P. Ramesh Babu, McGrawHill, 2015.

#### Additional Books:

A1. Statistical Theory of Communication - S.P. Eugene Xavier, New Age Publications, 2003.

A2. Probability Methods of Signal and System Analysis. George R. Cooper, Clave D. MC Gillem, Oxford, 3rd Edition, 1999.

#### Web References:

W1:

https://nptel.ac.in/courses/117105085/

W2:

http://www.gc11.ac.in/wp-content/uploads/2017/02/Bayes-theorm.ppt

W3:

https://nptel.ac.in/courses/117105085/33

R. Heribal

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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y.: 2017-18

Date:

Subject Code	C212
Subject Name	ANALOG COMMUNICATIONS
Regulation	R16
Year & Semester	&
Academic Year	2018-19

#### LESSON PLAN

#### Pre-Requisites-Signals and Systems

S.No. Unit/Topic No.	Topic Name	No. of Classes Required
Unit 1	INTRODUCTION	
1.1	Introduction to communication system	1
1.2	Need for modulation	1
1.3	Frequency Division Multiplexing	1
1.4	Amplitude Modulation: Time domain and frequency domain description (T)	1
1.5	Single tone modulation	1
1.6	Power relations in AM waves	1
1.7	Generation of AM waves	1
1.8	Square law Modulator, Switching modulator(T)	1
1.9	Detection of AM Waves	1
1.10	Square law detector, Envelope detector	1
Unit 2	DSB & SSB MODULATION	
2.1	Double side band suppressed carrier modulators	1
2.2	Time domain and Frequency domain description	1
2.3	Generation of DSBSC Waves	1
2.4	Balanced Modulator and Ring Modulator (T)	1
2.5	Coherent detection of DSB-SC Modulated waves	1
2.6	COSTAS Loop(T)	1
2.7	Single sideband modulation	1
2.8	Phase discrimination method for generating AM SSB Modulated waves(T)	1
2.9	Frequency discrimination method for generation of AM SSB Modulated Wave	1
2.10	Demodulation of SSB Waves .	1
2.11	Vestigial side band modulation: Frequency description	1
2.12	Generation of VSB Modulated wave	1
2.13	Envelope detection of a VSB Wave pulse Carried VSAU 1 2000	1
2.14	Comparison of AM Techniques(T)	1
2.15	Applications of different AM Systems  PULLADIGUNTA, GUNTUR 17	E 1
Unit 3	ANGLE MODULATION	
3.1	Basic concepts	1
3.2	Frequency Modulation: Single tone frequency modulation	1



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	***************************************	
3.3	Spectrum Analysis of Sinusoidal FM Wave	1
3.4	Narrow band FM	1
3.5	Wide band FM(T)	1
3.6	Constant Average Power, Transmission bandwidth of FM Wave	1
3.7	Generation of FM Waves: , Direct FM	1
3.8	Detection of FM Waves: Balanced Frequency discriminator	1
3.9	Zero crossing detector(T)	1
3.10	Phase locked loop	1
3.11	Comparison of FM & AM	1
Unit 4	TRANSMITTERS & RECEIVERS	
5.1	Radio Transmitter - Classification of Transmitter(T)	1
5.2	AM Transmitter	1
5.3	Effect of feed back on performance of AM Transmitter	1
5.4	FM Transmitter – Variable reactance type and phase modulated FM	1
5.4	Transmitter '	т_
5.5	Frequency stability in FM Transmitter	1
5.6	Radio Receiver - Receiver Types *	1
5.7	Tuned radio frequency receiver(T)	1
5.8	Superheterodyne receiver	1
F 0	RF section and Characteristics - Frequency changing and tracking,	
5.9	Intermediate fcricinforequency, AGC	1
5.10	FM Receiver, Comparison with AM Receiver	1
5.11	Amplitude limiting	1
	Communication Receivers, extensions of superheterodyne principle and	4
5.12	additional circuits.	1
Unit 4	NOISE	
4.1	Noise in Analog communication System	1
4.2	Noise in DSB System	1
4.3	Noise in SSB System	1
4.4	Noise in AM System(T)	1
4.5	Noise in Angle Modulation System	1
4.6	Threshold effect in Angle Modulation System	1
4.7	Pre-emphasis & de-emphasis	1
Unit 6	PULSE MODULATION	
6.1	Time Division Multiplexing (T)	1
6.2	Types of Pulse modulation techniques	1
6.3	PAM (Single polarity, double polarity)	1
6.4	PWM: Generation & demodulation of PWM	1
6.5	PPM, Generation and demodulation of PPM (T)	1
	Difference between various pulse modulation techniques	
6.6	Curriculum Gapsen's Engineers	
		1
	AM Modulation with a Complex wave	GE 1
1		
2	Resistive (Thermal) Noise Source, Shot noise, White Noise, Narrowband Noise	1



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

4	Mixers Tracking and Alignment, Local Oscillator, IF Amplifier, AM	1
	Detectors.	
	Content beyond the Syllabus	
1	Theory of Phase Modulation	1
2	FM Stereo Transmission	1
3	Travis Detector, Indirect generation of FM	1
4	Vander Bijl Modulation	1
	Total No. of hours:	69

#### TEXT BOOKS:

- 1. Principles of Communication Systems H Taub & D. Schilling, Gautam Sahe, TMH, 2007 3<sup>rd</sup> Edition.
- 2. Communication Systems B.P. Lathi, BS Publication, 2006.

#### **REFERENCES:**

- 1. Principles of Communication Systems Simon Haykin, John Wiley, 2<sup>nd</sup> Ed...
- 2. Electronics & Communication System George Kennedy and Bernard Davis, TMH 2004.
- 3. Communication Systems—R.P. Singh, SP Sapre, Second Edition TMH, 2007.
- 4. Fundamentals of Communication Systems John G. Proakis, Masond, Salehi PEA, 2006

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# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y.: 2019-20

Subject Code	C303
Subject Name	Digital IC Applications
Regulation	R16
Year & Semester	111 & 1
Academic Year	2019-20

#### **LESSON PLAN**

Pre-Requisites- Switching Theory & Logic design

S.No.		No. of
Unit/Topic	Topic Name	Classes
No.		Required
Unit 1	Digital Logic Families and Interfacing	Nequirec
1.1	Introduction to logic families	
1.2	CMOS logic	1
1.3	CMOS steady state and dynamic electrical behavior	2
1.4	CMOS logic families	1
1.5	Bipolar logic	1
1.6	transistor-transistor logic	1
1.7	TTL families	1
1.8	CMOS/TTL interfacing	1
1.9	low voltage CMOS logic and interfacing	11
1.10	Emitter coupled logic	1
Unit 2	Introduction to VHDL	2
2.1	Design flow	
2.2	program structure	1
2.3	levels of abstraction	2
2.4	Elements of VHDL	1
2.5	Data types	1
2.6	data objects, operators and identifiers.	2
2.7	Packages, Libraries and Bindings, Subprograms.	1
2.8	VHDI Programming using structure by the structure of the	1
Unit 3	VHDL Programming using structural and data flow modeling.  Behavioral Modeling	1
3.1	Process statement variable assistance of the sta	
3.2	Process statement, variable assignment statement, PRINCIPAL signal assignment statement, weith the statement with the statement assignment statement.	1
3.3	signal assignment statement, wait statement if statement and COLLE	GE 1
3.4	next statement, assertion statement, marken statement, assertion statement, assertio	2
3.5	statement	1
3.6	Inertial Delay Model, Transport Delay Model, Creating Signal Waveforms  Signal Drivers Other Sequential State  Other Sequentia	2
5.0	Signal Drivers, Other Sequential Statements, Multiple Processes.	



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# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

3.7	Logic Synthesis	
3.8	Inside a logic Synthesizer.	1 1
Unit 4	Combinational Logic Design	
4.1	Binary Adder-Subtractor, Ripple Addor, Lock About Co.	
4.2	ALU, Decoders, encoders, multiplexers and de-multiplexers	1
4.3	parity circuits, comparators, Barrel Shifter	1
4.4	Simple Floating- Point Encoder, Dual Priority Encoder	2
4.5	Design considerations of the above combinational logic circuits with relevant Digital ICs,	1
4.6	modeling of above ICs using VHDL	1
Unit 5	Sequential Logic Design	1
5.1	SSI Latches and flip flops, Ring Counter	
5.2	Johnson Counter Design of Management	2
5.3	Johnson Counter, Design of Modulus N Synchronous Counters Shift Registers, Universal Shift Registers	2
	Design considerations of the Legisters	2
5.4	Design considerations of the above sequential logic circuits with relevant Digital ICs	2
5.5	modeling of above ICs using VHDL	
Jnit 6	Synchronous and Asynchronous C	1
6.1	Synchronous and Asynchronous Sequential Circuits  Basic design steps: State dis	
	Basic design steps: State diagram, state table, state assignment	2
6.2	choice of flip flops and derivation of next state and output expressions, timing diagram	2
6.3	State assignment problem: One hot encoding.	
6.4	Mealy and Moore type FSM for serial adder	1
6.5	VHDL code for the serial adder.	2
6.6	Analysis of Asynchronous circuits, State Devices	2
6.7	Analysis of Asynchronous circuits, State Reduction, State Assignment.	1
	, state Reduction, State Assignment.	2

#### **TEXT BOOKS:**

- 1. Digital Design Principles & Practices John F. Wakerly, PHI/ Pearson Education Asia, 3rd Ed., 2005.
- 2. VHDL Primer J. Bhasker, Pearson Education/PHI, 3rd Edition.

#### REFERENCES:

1. Fundamentals of Digital Logic with VHDL Design- Stephen Brown, ZvonkoVranesic, McGrawHill, 3rd

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### LESSON PLAN

**Faculty Name** 

: Mr. K.Ravi Kumar

Course Name Academic Year : Microwave Engineering : 2018-19 II Semester

Degree & Branch

: III B.Tech ECE

S.No	Topic	Teaching Aid
	UNIT I	
1	Introduction, Microwave Spectrum and Bands, Applications of Microwaves	Chalk & Talk, PPT
2	Rectangular Waveguides – TE/TM mode analysis	Chalk & Talk, PPT
3	Expressions for Fields .	Chalk & Talk,
4	Characteristic Equation and Cut-off Frequencies	Chalk & Talk
5	Filter Characteristics	Chalk & Talk
6	Dominant and Degenerate Modes	Chalk & Talk
7	Sketches of TE and TM mode fields in the cross-section, Mode Characteristics – Phase and Group Velocities	Chalk & Talk
8	Wavelengths and Impedance Relations	Chalk & Talk
9 .	Power Transmission and Power Losses in Rectangular Guide	Chalk & Talk
10	Impossibility of TEM mode.	Chalk & Talk
11	Problems	Chalk & Talk
12	UNIT II	7
13	Introduction, Nature of Fields .	. Chalk & Talk
14	Characteristic Equation	Chalk & Talk
15	Dominant and Degenerate Modes	Chalk & Talk
16	Cavity Resonators-Introduction	PPT A Chalk & Talk
17	Rectangular and Cylindrical Cavities	Chalk & Talk
18	Dominant Modes and Resonant Frequencies	WALINE DMEN'S EN Chalk & Talk U PULLADIGUN'A, GUN'UR
19	Q factor and Coupling Coefficients	PULLADIGUNTA, GUNTUR Chalk & Talk



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# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

20	Excitation techniques- waveguides and cavities	Chalk & Talk
21	Problems.	Chalk & Talk
22	MICROSTRIP LINES—Introduction	PPT
23	Zo Relations, Effective Dielectric Constant	Chalk & Talk
24	Losses, Q factor	Chalk & Talk
	UNIT III	
25	MICROWAVE TUBES :Limitations and Losses of conventional tubes at microwave frequencies	Chalk & Talk
26	Re-entrant Cavities, Microwave tubes – O type and M type classifications	Chalk & Talk
27	O-type tubes :2 Cavity Klystrons – Structure	Chalk & Talk
28	Velocity Modulation Process and Applegate Diagram	Chalk & Talk
29	Bunching Process and Small Signal Theory –Expressions for o/p Power and Efficiency	Guest Lecture
30	Applications, Reflex Klystrons – Structure	Chalk & Talk
31	Applegate Diagram and Principle of working	Chalk & Talk
32	Mathematical Theory of Bunching	Chalk & Talk
33	Power Output, Efficiency	Chalk & Talk
34	Electronic Admittance, Oscillating Modes and o/p Characteristics	Chalk & Talk
35	Electronic and Mechanical Tuning	Chalk & Talk
36	Applications.	Chalk & Talk
37	Related Problems	Chalk & Talk
	UNIT IV	
38	HELIX TWTS: Significance, Types and Characteristics of Slow Wave Structures	Chalk & Talk
39	Structure of TWT and Suppression of Oscillations	Chalk & Talk
40	Nature of the four Propagation Constants (Qualitative treatment) was Finance	Chalk & Talk
41	M-type Tubes:Introduction	ACTURE COTTES
42	Cross-field effects, Magnetrons – Different Types	Chalk & Talk  Chalk & Talk
	* * * * * * * * * * * * * * * * * * *	Chair & Talk



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

43	8-Cavity Cylindrical Travelling Wave Magnetron Hull Cut-off Condition	Chalk & Talk
44	Modes of Resonance and PI-Mode Operation	Chalk & Talk
45	Separation of PI-Mode, o/p characteristics	Chalk & Talk
	UNIT V	
46	WAVEGUIDE COMPONENTS AND APPLICATIONS - I : Coupling Mechanisms – Probe, Loop, Aperture types.	Chalk & Talk
47	Waveguide Discontinuities – Waveguide irises	Chalk & Talk
48	Tuning Screws and Posts, Matched Loads.	Chalk & Talk
49	Waveguide Attenuators – Resistive Card	Chalk & Talk
50	Rotary Vane types; Waveguide Phase Shifters – Dielectric, Rotary Vane types	Chalk & Talk
51	Scattering Matrix-Significance, Formulation and Properties	Chalk & Talk
52	Scattering Matrix – Significance, Formulation and Properties	Chalk & Talk
53	E-plane and H-plane Tees	Chalk & Talk
54	Magic Tee, Hybrid Ring	Chalk & Talk
55	Directional Couplers – 2Hole, Bethe Hole types	Chalk & Talk
56	Ferrite Components— Faraday Rotation	Chalk & Talk -
57	S-Matrix Calculations for Gyrator	Chalk & Talk
58	Isolator, Circulator, Related Problems	Chalk & Talk
	. UNIT VI	
59	MICROWAVE SOLID STATE DEVICES: Introduction, Classification, Applications	Chalk & Talk
60	TEDs – Introduction	Chalk & Talk
61	Gunn Diode – Principle, RWH Theory	Chalk & Talk
62	Characteristics, Basic Modes of Operation	Chalk & Talk
63	Oscillation Modes. Avalanche Transit Time Devices – Introduction	Chalk & Talk
64	IMPATT and TRAPATT Diodes – Principle of Operation and Characteristics	Chalk & Talk
65	MICROWAVE MEASUREMENTS: Description of Microwave Bench And Different Blocks and their Features  WOMEN'S ENGINEER	Chalk & Talk



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

67	Measurement of Attenuation, Frequency	Chalk & Talk
68	Q-factor, Phase shift	Chalk & Talk
69	VSWR, Impedance Measurement	Chalk & Talk
70	PROBLEMS	Chalk & Talk

#### **TEXT BOOKS:**

- 1. Microwave Devices and Circuits Samuel Y. Liao, PHI, 3rd Edition, 1994.
- 2. Foundations for Microwave Engineering R.E. Collin, IEEE Press, John Wiley, 2nd Edition, 2002.

#### REFERENCES:

- 1. Microwave Principles Herbert J. Reich, J.G. Skalnik, P.F. Ordung and H.L. Krauss, CBS Publishers and Distributors, New Delhi, 2004
- 2. Microwave Engineering- Annapurna Das and Sisir K.Das, Mc Graw Hill Education, 3<sup>rd</sup> Edition.
- 3. Microwave and Radar Engineering-M.Kulkarni, Umesh Publications, 3<sup>rd</sup> Edition.
- 4. Microwave Engineering G S N Raju, I K International

5. Microwave and Radar Engineering – G Sasibhushana Rao Pearson

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### Pulladigunta (Vil), Vatticherukuru (Md), Prathipadu Road, Guntur – 522 017 A.P. DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y.: 2019-20

Date: 10-04-2020

Subject Code	C405
Subject Name	Electronic Switching System
Regulation	R16
Year & Sem	IV & I
Academic Year	2019-20

#### LESSON PLAN

#### UNIT I:

Syllabus:

#### Introduction:

Evolution of Telecommunications, Simple Telephone Communication, Basics of Switching System, Manual Switching System, Major Telecommunication Networks.

Crossbar Switching: Principles of Common Control, Touch Tone Dial Telephone, Principles of Crossbar Switching, Crossbar Switch Configurations, Cross point Technology, Crossbar Exchange Organization.

#### Learning objectives:

#### The student will

- Understand the means of measuring traffic.
- Understand the implication of the traffic level on system design.

S.No. Unit/Topic No.	Topic Name	No. of Classes Required
Unit 1	Introduction	
1.1	Evolution of Telecommunications	1
1.2	Simple Telephone Communication	1-
1.3	Basics of Switching systems PRINCIPAL MALINENITAKSH	
1.4	Elements of switching systems  WOMEN'S ENGINEERIN PULLADIGUNTA, GU	G COLLEGE
1.5	Switching network configuration	1



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# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1.6	Manual Switching .	1
1.7	Electronic Switching	1
1.8	Major Telecommunication Networks	1
1.9	Principles of Common Control	1
1.10	Touch Tone Dial Telephone	1
1.11	Principles of cross bar switching, Blocking and non blocking cross bar switch configuration	1
Unit 2	Electronic Space Division Switching	
2.1	Introduction	1
2.2	Stored Program Control	1
2.3	Centralized SPC	1
2.4	Standby mode .	1
2.5	Synchronous duplex mode	1
2.6	Distributed SPC	1
2.7	Software Architecture, Application Software	1
2.8	Enhanced Services	1
2.9	Two-Stage Networks	1
2.10	Three-Stage Networks	1 -
2.11	n-Stage Networks	1
Unit 3	Time Division Switching	
3.1	Basic Time Division Space Switching	1
3.2	Basic Time Division Time Switching	1
3.3	Generalized time division Space switch	1
3.4	Basic Time division time switching modes and their operation	1
3.5	Related Problems WOMEN'S ENGINEERING	COLLIEG'



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

3.6	Time Multiplexed Space Switching	1
3.7	Time Multiplexed Time division space Switch, Time Multiplexed Time Switching	1
3.8	Combination Switching	1
3.9	Time Space (TS) Switching	1
3.10	Space-time (ST) Switching	1
3.11	Three-Stage Combination Switching, n-Stage Combination Switching	1
Unit 4	TELEPHONE NETWORKS	
4.1	Subscriber loop systems	1
4.2	Switching hierarchy and routing	1
4.3	Transmission plan, Numbering plan, Charging plan	1
4.4	IN channel Signaling	1
4.5	Common channel signaling	1
4.6	CCITT Signaling System no.6	1
4.7	CCITT Signaling System no.7	1
4.8	Packet Switching: Statistical Multiplexing	1
4.9	Local- Area and Wide- Area Networks	1
4.10	Large-scale Networks, Broadband Networks	1
Unit 5	Switching Networks and Telecommunication Traffic	
5.1	Single- Stage Networks	1
5.2	Grading	1
5.3	Link Systems	-> 1
5.4	Grades of service of link systems WOMEN'S ENGINEERING OF	H 1
5.5	Application of Graph Theory to link Systems	EGE <sub>1</sub>



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

5.6	Use of Expansion	1
5.7	Call Packing, Rearrange-able Networks, Strict- Sense non-blocking Networks	1
5.8	Sectionalized Switching Networks	
5.9	Telecommunications Traffic: The Unit of Traffic	1
5.10	Congestion, Traffic Measurement	1
5.11	A Mathematical Model, Lost-call Systems, Queuing systems, Problems	1
Unit-6	Integrated Services Digital Networks	
6.1	Introduction, motivation	1
6.2	New Services, Network and Protocol Architecture	1
6.3	Transmission Channels ,	1
6.4	User- Network Interfaces	1
6.5	Signaling, Numbering and Addressing, Service Characterization	1
6.6	Interworking	1
6.7	ISDN architecture	1
6.8	ISDN interface, Expert Systems in ISDN	1
6.9	Broadband ISDN, Voice Data Integration	1
	· Total No. of hours:	63

**TEXT BOOKS:** 

MALMENI LAKSHMAIAH

1. Thyagarajan Viswanathan, Telecommunication switching systems and Networks -PHI, 20002.

2. Telecommunications Switching, Traffic and Networks- J. E. Flood, 2006, Pearson Education.



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### REFERENCE BOOKS:

- 1. Behrouz A Frouzan, Data communication and networking –4th Edition, Tata McGraw Hill.
- 2. Telecommunication System Engineering Roger L. Freeman, 4th Ed., Wiley-Inter Science, John Wiley & Sons, 2004.

#### WEB REFERENCE:

- 1. www.wikipedia.com
- 2. www.slideshare.com

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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### LESSON PLAN

**Faculty Name** 

: Mrs. K.Rajitha,

Course Name

: ELECTRONIC MEASUREMENTS &

INSTRUMENTATION

Academic Year

: 2019-20 II Semester

Degree & Branch

: IV B.Tech ECE

S.No	Topic
	UNIT -I
1	Performance characteristics of instruments
2	Static characteristics, Accuracy, Resolution, Precision, Expected value, Error, Sensitivity
3	Errors in Measurement
4	Dynamic Characteristics-speed of response, Fidelity, Lag and Dynamic error
5	DC Voltmeters-Single valued Voltmeter
6	Multi-range Voltmeter
7	AC voltmeters- multi range
8	range extension, shunt Voltmeter
9	Thermocouple type RF ammeter
10	Ohmmeters series type, shunt type
11	Multi-meter for Voltage, Current and resistance measurements
12	Fixed and variable AF oscillators
	UNIT -II
13	Standard Signal Generator.
14	AF sine and square wave signal generators
15	Response to sinusoidal excitation - pure capacitence
16	Function Generators  PRINCIPAL
17	Square pulse Generator  MALINENI LANCO MALAN  WOMEN'S ENGINEERING COLLE
18	Random noise, sweep Generators PULLADIGUNIA, GUNTUE
19	Arbitrary waveform. Wave Analyzers



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

20	Harmonic Distortion Analyzers
21	Spectrum Analyzers
22	Digital Fourier Analyzers
	· UNIT -III
23	Oscilloscopes CRT features
24	vertical amplifiers, horizontal deflection system
25	sweep, trigger pulse Circuit +
26	Delay line, sync selector circuits
27	simple CRO .
28	triggered sweep CRO, Dual beam CRO
29	Dual trace oscilloscope, sampling oscilloscope, storage oscilloscope
30	digital readout oscilloscope, digital storage oscilloscope
31	Lissajous method of frequency measurement, standard specifications of CRO
32	probes for CRO- Active & Passive, attenuator type
	UNIT -IV
33	DC Bridges – Wheatstone bridge
34	Measurement of inductance- Maxwell's bridge
35	Anderson bridge
36	Measurement of capacitance - Schearing Bridge
37	Wien Bridge
38	Errors and precautions in using bridges
39	Q-meter
	UNIT-V
40	Transducers- active & passive transducers
41	Résistance transducers, Strain gauges WOMEN'S ENGINEERING COLLEGE WOMEN'S ENGINEERING COLLEGE TO THE COUNTURE
42	Inductance transducers, LVDT  PULLADIGUITA, GUNTUR-
43	Capacitance transducers, Piezo Electric transducers



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#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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44	Resistance Thermometers
45	Thermocouples
46	Thermistors
47	Sensistors
	UNIT -VI
48	Measurement of physical parameters force Sensors
49	Pressure Sensors
50	Humidity, moisture Sensors
51	Velocity and Speed Sensors
52	proximity and displacement
53	Data acquisition systems

#### TEXTBOOKS:

- 1. Electronic instrumentation, second edition H.S.Kalsi, Tata McGraw Hill, 2004.
- 2. Modern Electronic Instrumentation and Measurement Techniques A.D. Helfrick and W.D. Cooper, PHI, 5th Edition, 2002.

#### REFERENCES:

- 1. Electronic Instrumentation & Measurements David A. Bell, PHI, 2nd Edition, 2003.
- 2. Electronic Test Instruments, Analog and Digital Measurements Robert A. Witte, Pearson Education, 2<sup>nd</sup> Ed., 2004.
- 3. Electronic Measurements & Instrumentations by K. Lal Kishore, Pearson Education 2005.

#### WEB REFERENCES:

- 1. https://www.tutorialspoint.com/electronic measuring instruments/index.htm
- 2. https://nptel.ac.in/courses/108/105/108105153/#
- 3. <a href="https://freevideolectures.com/course/4111/nptel-electrical-measurement-electronic-instruments/19">https://freevideolectures.com/course/4111/nptel-electrical-measurement-electronic-instruments/19</a>
- 4. www.youtube.com/Ekeeda/Electronic Instrumentation and measurements

Faculty In-Charge

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(Affiliated to Jawaharlal Nehru Technological University, Kakinada)

DEPARTMENT OF SCIENCE AND HUMANITIES

#### LESSON PLAN

Academic Year: 2020-21

Year / Semester: I/I

Faculty name: Dr P.Srilakshmi

COURSE: MATHEMATICS-I

Regulation: R20

Branch: CSE

Period (Hours): (3+1T)

Credits: 3

L.NO	NANE OF THE TOPIC	TYPE OF CLASS	TEACHING AID	TEXT/REFERENCE BOOK
	UNIT-1: SEQUENCES,SI	ERIES AND MEAN	VALUE THEOREMS	
1	Introduction and definitions	· L	Chalk & Talk	m.
2	Convergence and divergence	L	Chalk & Talk	TI
3	Ratio test	L	Chalk & Talk	T1
4	Comparision test	I,	Chalk & Talk	T1
5	Integral test	L	Chalk & Talk	TI
6	Cauchy's root test	L	Chalk & Talk	Ti
7	Alternate series	Т	Chalk & Talk	T1
8	Leibnitz's rule	L	Chalk & Talk	Ti
9	Mean value theorems.Roll's theorem	L	Chalk & Talk	T1
10	Lagrange's mean value theorem	L	Chalk & Talk	Ti
11	Cauchy's mean value theorem	L	Chalk & Talk	Ti
12	Newton's Law of cooling	L	Chalk & Talk	
13	Taylor,s and Maclaurin,s theorems with remainders	L	Chalk & Talk	TI
14	Problems	L		
	UNIT-11: DIFFERENTIAL EQ	UATIONS OF FIF DEGREE	RST ORDER AND FIRST	Ti
15	General Introduction to the differentiation	L	Chalk & Talk	Ti
16	Definition of D.E,P.D.E, It's Order, Degree with examples	Ĺ	Chalk & Talk	Ti
17	Formation of Differential Equations	L	Chalk & Talk	ті

PRINCIPAL MALINENI LAKSHMAIAH MONEN'S ENGINEERING

18	Variable Separable & Homogenous Differential Equations .	· L	Chalk & Talk	TI
19	Linear Differential Equations	L	Chalk & Talk	T1
20	Bernoulli's Differential Equations	L	Chalk & Talk	T1
21	Exact Differential Equations	Т	Chalk & Talk	TI
22	Reducible to exact Differential Equations	L	Chalk & Talk	Tí
23	Orthogonal Trajectories in Cartesian form	L	Chalk & Talk	TI
24	Orthogonal Trajectories in polar form	L	Chalk & Talk	TI
25	Electrical circuits	L	Chalk & Talk	TI
26	Newton's Law of cooling	L	Chalk & Talk	TI
27	Law of natural growth, decay	L	Chalk & Talk	TI
28	Chemical reactions	L		TI
29	Problems			
	UNIT-III: DIFFERENT	AL EQUATION IGHERORDER	NS OF SECOND AND	
30	Definition of Non- Homogenous L.D.E with constant coefficients, General Solution	L	Chalk & Talk	Т1
31	To Find the complementary Solution	L	Chalk & Talk	TI
32	To find $y_p$ ,=If $Q(x)=e^{\alpha x}$	L	Chalk & Talk	Ti
33	To find y <sub>p</sub> ,=If Q(x)=Sin(ax+b) (or)Cos(ax+b)	L	Chalk & Talk	ті
34	To find $y_p$ ,=If $Q(x)=x''$	Т	Chalk & Talk	-
35	To find $y_p = \text{If } Q(x) = e^{ax} v(x)$	т	Chalk & Talk	TI
36	To find $y_p$ ,=If $Q(x)$ = $XV(x)$	L	Chalk & Talk	Tı
37	To find $y_p$ ,=If $Q(x)=x''V(x)$	L	Chalk & Talk	TI
	LCR circuit	L	Chalk & Talk	TI
38	Problems		Chair, & Tair.	Ti
39	Simple Harmonic Motion	L	Chalk & Talk	70.4
10	Problems		Chair & Talk	TI
	UNIT-IV PAR	TIAL DIFFEREN	TIATION	
	Total Derivatives and Chain			
	Rule	L	Chalk & Talk	Ti
	Taylor's series for single & two variables	L	Chalk & Talk	ті
	Mc Laurent's series for single & two variables	L	Chalk & Talk	TI
	Functional Dependence	L	Chalk & Talk	Ti
	Jacobian	L	Chalk & Talk	Ti
6	Maxima and minima of functions of two variables with constant	L	Chalk & Talk	PRINCIPAL PRINCIPAL AKSHMAIAH

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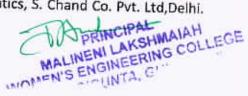
47	Maxima and minima of functions of two variables without constant coefficients	L	Chalk & Talk	T1
48	Lagrange's method of undetermined multipliers	L	Chalk & Talk	Ti
49	Problems	L	Chalk & Talk	
50	Problems	L	Chalk & Talk	T1
			Chark & Talk	Ti
51	UNIT-	V: MULTIPLE IN	TEGRALS	
21	muoduction	L	Chalk & Talk	T1
52	Double Integration in cartisian form	L	Chalk & Talk,	T1
53	Double Integration in polar form	L	Chalk & Talk	Ti
54	Triple Integrals	L	Chalk & Talk	Ti
55	Areas	L	Chalk & Talk	
56	volumes	L	Chalk & Talk	TI
	Integration Changing		Chair de Tair	TI
57	cartisian into polar	L	Chalk & Talk	T1
8	Changing the order of Integration	L	Chalk & Talk	TI
9	Problems of volume as double integral	. L	Chalk & Talk	Ti
0	Change of variables in atriple integral	L	Chalk & Talk	TI
i	Problems	L	Chalk & Talk	TI

#### **Text Books:**

- B.S.Grewal, Higher Engineering Mathematics, 43<sup>rd</sup> Edition, Khanna Publishers.
- 2. N.P.Bali, Engineering Mathematics, Lakshmi Publications.

## Reference Books:

- 1. Erwin Kreyszig, Advanced Engineering Mathematics, 10th Edition, Wiley-India
- 2. Micheael Greenberg, Advanced Engineering Mathematics, 9th edition, Pearson edn
- 3. Dean G. Duffy, Advanced engineering mathematics with MATLAB, CRC Press
- 4. Peter O'neil, Advanced Engineering Mathematics, Cengage Learning.
- 5. Srimanta Pal, Subodh C.Bhunia, Engineering Mathematics, Oxford University Press.
- 6. Dass H.K., Rajnish Verma. Er., Higher Engineering Mathematics, S. Chand Co. Pvt. Ltd, Delhi.



## MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE



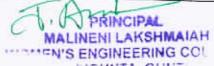
(Approved by AICTE, Affiliated to JNTUK)
(An ISO9001:2008 Certified Institution)
Pulladigunta (Village), Vatticherukuru (Mandal),
Guntur-522017, Andhra Pradesh, India

## Department of Science and Humanities

#### LESSON PLAN

COURSE: MATHEMATICS-II	DEGREE: B.Tech
COURSE CODE: C109	YEAR: I SEMESTER: II
REGULATION: R20	COURSE TYPE: REGULAR
ACADEMIC YEAR : 2020-21	CREDITS: 3

S.No	Topic	Teaching Aid	Books
UNI	T1:Solving System of linear equations, Eigen values and Eigen vectors		33.000
1	Rank of matrix by Echelon form and Normal form	Chalk & Talk	T1,T2
2	Problems on rank of a matrix	Chalk & Talk	T1,T2
3	Problems on rank of a matrix by normal form	Chalk & Talk	T1,T2
4	Solving system of linear homogenous equations	Chalk & Talk	T1,T2
5	Problems on homogenous linear equations	Chalk & Talk	T1,T2
6	Working rule to solve the non homogenous linear system of equations	Chalk & Talk	T1,T2
7	Problems on non homogenous linear equations	Chalk & Talk	T1,T2
8	Gauss Elimination method	Chalk & Talk	T1,T2
9	Problems on Gauss -Elimination method	Chalk & Talk	T1,T2
10	Introduction Eigen values and Eigen vectors of a matrix	Chalk & Talk	T1,T2
11	Problems on Eigenvalues and Eigen vectors	Chalk & Talk	T1,T2
12	Properties of Eigen values and Eigen vectors	Chalk & Talk	T1,T2
	UNIT-2: Cayley-Hamilton theorem and Quadratic for	me	,
13	Introduction of Cayley-Hamilton theorem	Chalk & Talk	T1,T2
14	Problems on Cayley-Hamilton theorem	Chalk & Talk	T1,T2
15	Finding inverse of a matrix by Cayley-Hamilton theorem	Chalk & Talk	T1,T2
16	Finding powers of a matrix by Cayley-Hamilton theorem	Chalk & Talk	T1,T2



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17	Introduction of Diagonalisation of a matrix	Chalk & Talk	T1,T2
18	Problems on Diagonalisation of a matrix	Chalk & Talk	T1,T2
19	Introduction of Quadratic forms	Chalk & Talk	T1,T2
20	Reduction of quadraticform to canonical form by orthogonal transformation method.	Chalk & Talk	T1,T2
21	Problems on orthogonal transformation method.	Chalk & Talk	T1,T2
22	Singular vaues of a matrix and singular value decomposition.	Chalk & Talk	T1,T2
23	problems	Chalk & Talk	T1,T2
	UNIT-III: ITERATIVE METHODS		
24	Introduction of iterative methods	Chalk & Talk	T1,T2
25	Introduction of Bisection method	Chalk & Talk	T1,T2
26	Problems on Bisection method	Chalk & Talk	T1,T2
27	Introduction of Secant method	Chalk & Talk	T1,T2
28	Problems on Secant method	Chalk & Talk	T1,T2
29	Introduction of Regula-Falsi method	Chalk & Talk	T1,T2
30	Problems on Regula-Falsi method	Chalk & Talk	T1,T2
31	Introduction of Method of False position method	Chalk & Talk	T1,T2
32	Problems on Method of False position method	Chalk & Talk	T1,T2
33	Introduction of Iteration method	Chalk & Talk	T1,T2
34	Introduction of Newton-Raphson method	Chalk & Talk	T1,T2
35	Problems on Newton -Raphson method	Chalk & Talk	T1,T2
36	Jaccobbi method	Chalk & Talk	T1,T2
37	Gauss- Siedial method	Chalk & Talk	T1,T2
	UNIT-IV :INTERPOLATION		
37	Introduction of Interpolation and finite differences	Chalk & Talk	T1,T2
38	Forward , backward and central difference tables	Chalk & Talk	T1,T2
39	Relation between the operators	Chalk & Talk	T1,T2
40	Problems on Newton's forward interpolation formula	Chalk & Talk	T1,T2
41	Problems on Newton's backward interpolation formula	Chalk & Talk	T1,T2
42	Interpolation with unequal intervlas	Chalk & Talk	T1,T2
43	Problems on Lagranges method	Chalk & Talk	T1,T2
44	Newton's divided difference formula	Chalk & Talk	T1,T2
45	Problems on Newton's divided difference formula	Chalk & Talk	T1,T2

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46	Problems on Newton's divided difference formula	Chalk & Talk	T1,T2
	UNIT -V		
47	Introduction of Numerical Integration	Chalk & Talk	T1,T2
48	Trapezoidal rule	Chalk & Talk	T1,T2
49	Problems on Trapezoidal rule	Chalk & Talk	T1,T2
50	Simpson's 1/3 rule	Chalk & Talk	T1,T2
51	Problems on Simpson's 1/3 rule	Chalk & Talk	T1,T2
52	Simpson's 3/8 rule	Chalk & Talk	T1,T2
53	Problems on Simpson's 3/8 rule	Chalk & Talk	T1,T2
54	Introduction of Numerical Solutions of Ordinary differential equations	Chalk & Talk	T1,T2
55	Problems on Taylor series method	Chalk & Talk	T1,T2
56	Picard,s method	Chalk & Talk	T1,T2
57	Eulers method	Chalk & Talk	T1,T2
58	Problems on modified Euler's method	Chalk & Talk	T1,T2
59	Runge-kutta method of second order	Chalk & Talk	T1,T2
60	Runge-kutta method of third order	Chalk & Talk	T1,T2
61	Runge-kutta method of fourth order	Chalk & Talk	T1,T2
62	Problems on R-K method of 4th order	Chalk & Talk	T1,T2

#### Text Books:

- B.S.Grewal , Higher Engineering Mathematics , 43rd Edition , Khanna Publishers.
- 2) B.V.Ramana, Higher Engineering Mathematics, 2007 Edition, Tata Mc.Graw Hill Education.

#### Refernce Books:

- 1) David Poole, Linear Algebra A modern introduction, 4th Edition, Cengage.
- Steven C. Chapra, Applied Numerical Methods with MATLAB for Engineering and Science, Tata Mc.Graw Hill Education.
- 3) M.K.Jain, S.R.K. Iyengar and R.K.Jain, Numerical Methods for Scientific and Engineering Computation, New Age International Publications.
- 4) Lawrence Turyn, Advanced Engineering Mathematics, CRC Press.

Faculty In-charge

MALINENI LAKSHMAIAH



#### Malineni Lakshmaiah Women's Engineering College :: Guntur Department of Science & Humanities

#### LESSON PLAN

Faculty Name Course Name : Dr P.SRINIVASA RAO : APPLIED PHYSICS

Academic Year Degree & Branch

: 2020-21 I Sem : I B.Tech CSE

S.No	Topic	Teaching Aid	Book
	UNIT I – WAVE OPTICS		I):
1	Introduction, Principle of superposition, Coherent sources.	Chalk & Talk	T1,T3 R1
2	Interference in thin films by reflection.	Chalk & Talk	T1,T
3	Newton's rings construction.	PPT	T1,T
4	Applications of Newton's rings, Problems.	Chalk & Talk	T1,T3
5	Fraunhofer diffraction at single slit, Maxima & Minima conditions.	Chalk & Talk	T1,T
6	Intensity distribution in Single slit diffraction.	Chalk & Talk	T1,T3
7	Fraunoffer diffraction due to double slit	Chalk & Talk	TI,T
8	N-slits& circular aperture(Qualitative treatment only), Grating equation	Chalk & Talk	T1,T3
9	Resolving power of a grating, Problems	Chalk & Talk	T1,T3
10	Telescopes and microscopes	Chalk & Talk	T1,T3
11	Introduction of Polarization, Types of Polarization	Chalk & Talk	T1,T3
12	Methods of production	Chalk & Talk	T1,T3
13	Nicols prism	PPT	T1,T3 R1
14	Quarter wave plate and half wave plates ,Problems.	Chalk & Talk	T1,T3
	WOMEN'S ENGINEERIN PULLADIGUNTA.	UNTUR-11	

UNIT	-II Laser and Fiber Optics		
1	Characteristics of Lasers, Spontinious &Stimulated emission	Chalk & Talk	T1,T3 R1
2	Einstein's transition probabilities	Chalk & Talk	T1,T3
3	Pumping schemes ,Three level, Four level.	Chalk & Talk	T1,T3 R1
4	Essential components of laser, Ruby laser	Chalk & Talk	T1,T3 R1
5	He-Ne laser, Population inversion, Problems.	PPT	T1,T3 R1
6	Principle & Structure of optical fibers .	Chalk & Talk	T1,T3
7	Types of optical fibers, Numerical Apacture ,Acceptance angle.	PPT	T1,T3
8	Types of optical fibers depending up on number of refracting index modes.	Chalk & Talk	T1,T3
9	Problems on Numerical Apacture.	Chalk & Talk	T1,T3 R1
10	Difference between Step index, Graded index, Problems	Chalk & Talk	T1,T3 R1
	UNIT-III Quantum Mechanics ,Free Electron Theory and Band	theory	711
1	Introduction to matter waves.	Chalk & Talk	T1,T3 R1
2	Properties of matter waves, De brogely hypothasis.	Chalk & Talk	T1,T3
3	Schrodinger Time dependent & Independent wave equation.	Chalk & Talk	T1,T3 R1
4	Partical in a Potential well, Problems.	Chalk & Talk	T1,T3
5	Difference between C.F.T& Q.F.T.	Chalk & Talk	T1,T3 R1
6	Bloch's theorem(qualitative).	Chalk & Talk	T1,T3
7	Kronig penney model energy bands in crystalline solids.	Chalk & Talk	T1,T3 R1
8	Classification of crystalline solids, K-V Ggraph.	Chalk &Talk	T1,T3
9	Concept of effective mass of an electron - Concept of hole.	Chalk & Talk	T1,T3 R1
	UNIT-IV Dielectric and Magnetic Materials.	PRINCIPAL INENI LAKSHMAIA	011

MALEN'S ENGINEER GUNT

1	Basic definitions, Origin of the magnetic moment.	Chalk & Talk	T1,
2	Classification of magnetic materials, Dia, Para, Ferro materials.	Chalk & Talk	T1,
3	Domain theory of Ferromagnetic materials.	Chalk & Talk	T1,
4	Weiss field theory of Ferro magnetic materials.	Chalk & Talk	T1,
5	Hysteresis Loop. Soft & Hard magnetic materials	PPT	T1,
6	Solved problems	Chalk & Talk	T1,
7	Introduction about Dielectrics, Basic definitions ,polar non polar .	Chalk & Talk	T1,
8	Types of polarizations, Electrics ,Ionic ,Orientation.	Chalk & Talk	TI,
9	Local internal flieds, Applications of di electrics.	Chalk & Talk	T1,
1	Introduction about semiconductors.	Chalk & Talk	T1,
1	Introduction about semiconductors.	Chair & Tair	
_		Chalk & Talk	
2	Density of carriers in intrinsic & Extrinsic	Chalk & Talk	T1, R5
		Chalk & Talk	T1, R5 T1, R5
2 3 4	Density of carriers in intrinsic & Extrinsic	Chalk & Talk PPT	T1, R5 T1, R5
3	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors	Chalk & Talk	T1, R5 T1, R5 T1, R5
3	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors	Chalk & Talk PPT	T1,7 R5 T1,7 R5 T1,7 R5 T1,7 R5
3 4 5	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion	Chalk & Talk PPT Chalk & Talk	T1, R5 T1, R5 T1, R5 T1, R5 T1,
3 4 5 6 7	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion  Relevance of Einstein's equation  Hall effect in semiconductors  Density of carriers in intrinsic & Extrinsic	Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk	T1, R5 T1, R5 T1, R5 T1, R5 T1, R5
3 4 5 6 7 8	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion  Relevance of Einstein's equation  Hall effect in semiconductors	Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk  PPT	T1, R5
3 4 5 6 7 8	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion  Relevance of Einstein's equation  Hall effect in semiconductors  Density of carriers in intrinsic & Extrinsic  Introduction about super conductors, Properties and applications of	Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk  PPT  Chalk & Talk	T1, R5
3 4 5	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion  Relevance of Einstein's equation  Hall effect in semiconductors  Density of carriers in intrinsic & Extrinsic  Introduction about super conductors, Properties and applications of superconductors.	Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk	T1, R5
3 4 5 6 7 8 9	Density of carriers in intrinsic & Extrinsic  Density of carriers in p-type semiconductors  Density of carriers in n-type semiconductors  Drift & Diffusion  Relevance of Einstein's equation  Hall effect in semiconductors  Density of carriers in intrinsic & Extrinsic  Introduction about super conductors, Properties and applications of superconductors.  Type I&II superconductors on the basis of Mesinner effect.	Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk  PPT  Chalk & Talk  Chalk & Talk  Chalk & Talk	T1, R5

#### Text books:

- M. N. Avadhanulu, P.G.Kshirsagar & TVS Arun Murthy" A Text book of EngineeringPhysics"- S.Chand Publications, 11th Edition 2019.
- 2. Engineering Physics" by D.K.Bhattacharya and Poonam Tandon, Oxford press (2015).
- 3. Applied Physics by P.K. Palanisamy SciTech publications.

#### Reference Books:

- 1. Fundamentals of Physics Halliday, Resnick and Walker, John Wiley &Sons
- 2. Engineering Physics by M.R.Srinivasan, New Age international publishers (2009).
- 3. Shatendra Sharma, Jyotsna Sharma, "Engineering Physics", Pearson Education, 2018
- 4. Engineering Physics Sanjay D. Jain, D. Sahasrabudhe and Girish, University Press
- Semiconductor physics and devices- Basic principle Donald A, Neamen, Mc Graw Hill

PRINCIPAL LINENI LAKSHMAIAH SENGINEERING COLL SENGINEERING COLL ADIGUNTA, GUNTIII

6. B.K. Pandey and S. Chaturvedi, Engineering Physics, Cengage Learning

Eaculty In-charge



#### LESSON PLAN

Faculty Name Course Name

: G.BAJI

: GLOBAL FINANCIAL MANAGEMENT

Academic Year

: 2019-20 IV Semester

Degree & Branch

: PG , MBA

S.No	Topic	Teaching Aid	
	UNIT I - Introduction to	Global Financial Management	-
1	Introduction to Global Financial Management	Chalk & Talk	T1,T3
2	Globalization and MNCs- Global Winds of Change	Chalk & Talk	RI T1,T
3	New Challenges and Opportunities	Chalk & Talk	R1 T1,T3
4	Importance of Global Factors	Chalk & Talk	R1 T1,T
5	Regulatory and Legal Frame Work	Chalk & Talk	R1 T1,T3
6	Global Organizational Restructuring	Chalk & Talk	R1 T1,T3
7	International Monitory System	Chalk & Talk	R1 T1,T3
8	Exchange Rates	Chalk & Talk	RI TI,T3
9	Par Values	Chalk & Talk	R1 T1,T3
10	International Monitory Reforms	Chalk & Talk	R1 T1,T3
11	Special Drawing	Chalk & Talk	T1,T3
12	Right	Chalk & Talk	T1,T3
13	SDR Allocation	Chalk & Talk	T1,T3 R1
JNIT	-II Management of Exchange and Interest Rates Exposure		
1	Determination of Exchange Rates	Chalk & Talk	T1,T3
2	Balance of Payments (Equilibrium vs Disequilibrium)	Chalk & Talk	RI T1,T3
3	International Trade Flow	Chalk & Talk	R1 T1,T3
4	Time factor in International Risks	Chalk & Talk	R1 T1,T3 R1

1	Hedging in Swap Market	Chalk & Tall	
)	Measurement of Politico Economics Risk	Chalk & Tall	R1
7	Management of International Transactions Exposure	Chalk & Talk	R1 TI,T3
UN	IIT-III Management of Global Business Operations		RI
1		Chalk & Talk	T1,T3
2	Onessi: 15	Chalk & Talk	RI
3	Management of Global Business Practices	Chalk & Talk	RI
4	Sources of funds for MNCs- Operations in International Financial Markets	Chalk & Talk	R1
_		Chaik & Talk	T1,T3
5	Inter-Corporate Funds Flow- Market for Currency Futures and	Chalk & Talk	T1,T3
6	Market for Currency Futures	Chalk & Talk	T1,T3
7	Currency Options	Chalk & Talk	R1 T1,T3
UN	T-IV International Investment Decision:		RI
1	International Investment Decision	Chalk & Talk	T1,T3
2	Foreign Direct Investment- International Capital Budgeting	Chalk & Talk	R1
3	Evaluation and Management of Political Risk-	Chalk & Talk	R1
4	Global Portfolio Investment	11 A	T1,T3 R1
	International Global Financial Decisions-	Chalk & Talk	T1,T3
5		Chaik & Talk	T1,T3
6	Role of Multi Lateral Development Banks- Global	Chalk & Talk	R1 T1,T3
7	Financial Market Instruments-	Chalk & Talk	RI T1,T3
8	Management of Interest Rate Risk- Shorter Asset and Liability	Chalk & Talk	R1 T1,T3
9	Shorter Asset and Liability	Chalk & Talk	Ri T1,T3
VII.		- Talk	R1
111	-V Global Indebtedness:	4	
ı	Global Indebtedness	Chalk & Talk	T1,T3
2	External Resources and Development-	Chalk & Talk	R5
	Nature and Magnitudes of External Debt	C" " -	T1,T3 R5
	Factors influencing Debt Crisis-		T1,T3 R5
		Chalk & Talk	T1,T3 R5

20	Management of external Indebtedness		
5	Sement of external indepteditess	Chalk & Talk	T1,T3
	Challenges- Short -Term Financing Int. 17		R5
6	Challenges- Short -Term Financing- Internal Financing by MNCs.	Chalk & Talk	T1,T3
_	Internal Financing by MNCs		R5
1	Timestally by Wives	Chalk & Talk	T1,T3
			R5
	Total Number Of Period	s: 63	

#### Text books:

Jeff Madura, "International Financial Management" Cengage Learning Limited, 2008...
 PG Apte, "International Financial Management" Tata McGraw Hill Limited, 2009.

#### Reference Books:

Vyuptakesh Sharan, "International Financial Management" PHI, 2012.

 V.A. Avadhani, "International Financial Management" Himalaya Publishing House, 2009

Faculty In-charge

MALINENI LAKSHMAIAN MALINENI LAKSHMA COLLEGE MOMEN'S ENGINEERING COLLEGE



#### LESSON PLAN

Faculty Name Course Name

: V.SAI LAKSHMI

: LEGAL ASPECTS OF BUSINESS

Academic Year

: 2019-20 III Semester

Degree & Branch

: PG, MBA

S.No	Topic	Teaching Aid	
	UNIT I – Importance	of Commercial Law	
1	Importance of Commercial Law.	Chalk & Talk	T1,T3
2	The Indian Contracts Act, 1872	Chalk & Talk	T1,T3
3	Nature of the Act and Classification of Contracts	PPT	T1,T3
4	Essentials of a Valid Contract	Chalk & Talk	T1,T3
5	Offer and Acceptance	Chalk & Talk	T1,T3
6	Capacity	Chalk & Talk	T1,T3
7	Consideration	Chalk & Talk	T1,T3
8	Free Consent	Chalk & Talk	R1
9	Legality of Object	Chalk & Talk	R1 T1,T3
10	Performance of a Contract	Chalk & Talk	R1 T1,T3
11	Discharge of a Contract	Chalk & Talk	RI T1,T3
12	Breach of a Contract and Remedies	Chalk & Talk	RI T1,T3
	UNIT II Sales of Goods A	ct	RI
1	Sales of Goods Act	Chalk & Talk	T1,T3
2	Distinction between Sales and Agreement to Sell	Chalk & Talk	R1 T1,T3
3	Conditions and Warranties	Chalk & Talk	R1 T1,T3
4	Performance of Contract of Sale	Chalk & Talk	RI T1,T3
5	Transfer of Ownership	PPT	R1 T1,T3

6	Rights of an Unpaid Seller	Chalk & Talk	
7	Consumer Protection Act, 1986	PPT	R1 T1,T3
8	Consumer Right	Chalk & Talk	RI
9	Machinery for Redressal of Consumer Grievances	Chalk & Talk	R1 T1,T3
10	Information Technology Act 2000	Chalk & Talk	RI T1,T.
	UNIT III Contract of Ag	ency	R1
1	Contract of Agency		
-		Chalk & Talk	T1,T3 R1
2	Kinds of Agents	Chalk & Talk	T1,T3
3	Creation of Agency-	Chalk & Talk	R1 T1,T3
4	Duties and Rights of Principal and Agents	Chalk & Talk	R1 T1,T3
5	Principal's Liability for the Acts of the Agent	Chalk & Talk	R1 T1,T3
6	Liability of Agent Termination of Agency	Chalk & Talk	R1 T1,T3
7	Negotiable Instruments Act, 1881	Chalk & Talk	R1 T1,T3
8	Kinds of a Negotiable Instruments and endorsement	Chalk &Talk	R1
9	Presentation and discharge of Negotiable Instrument		T1,T3
9	and disensinge of regonable instrument	Chalk & Talk	T1,T3 R1
_	UNIT IV Indian Partnership	Act 1932	***
1	Indian Partnership Act, 1932	Chalk & Talk	T1,T3
2	Meaning and Essentials of Partnership	Chalk & Talk	R1
3	Registration	Chair & Tair	T1,T3 R1
_		Chalk & Talk	T1,T3
4	Tests of Partnershi	Chalk & Talk	R1 T1,T3
5	Duties and Rights of Partners	PPT	RI T1,T3
6	Dissolution of Partnership	Chalk & Talk	R1
		Chair & Tair	T1,T3 R1
	UNIT-V Company Act 1956		
	Company Act 1956		
	Nature and Types of Companies		
	Formation		
	Memorandum of Association		

	+1	Total Number Of	Pariode:59	1
8	Winding up			+
7	Duties of Directors			-
6	Kinds of Shares			
5	Articles of Association			-

#### Text books:

- 1. Ravindra Kumar: "Legal Aspects of Business", Cengage Learning, New Delhi, 2011.
- 2. Kuchhal M C, Deepa Prakash: "Business Legislation for Management", Vikas Publishing House, New Delhi, 2012

#### Reference Books:

- 1. Pathak: "Legal Aspects of Business", Tata McGraw Hill, New Delhi, 2010
- S.N.Maheshwari, S.K.Maheshwari: "A Manual of Business Laws", Himalaya Publishing House, 2013
- 3. S.S Gulshan: "Business Law", Excel Books, New Delhi,
- S.S.Gulshan, G.K.Kapoor: "Business Law Including Company Law", New-Age Publishers, New Delhi, 2011

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#### LESSON PLAN

Faculty Name Course Name

: V.SAI LAKSHMI

: Managerial Economics Academic Year : 2018-2019 I Semester

Degree & Branch

: PG, MBA

S.No	Topic	Teaching Aid	Books
	UNIT I - Introduction to Managerial	Economics	
1	Introduction to Managerial Economics	Chalk & Talk	T1,T3 R1
2	Definition	Chalk & Talk	T1,T3
3	Nature and Scope	PPT	T1,T3
4	Relationship with other areas in Economics	Chalk & Talk	T1,T3
5	Characteristics of managerial Economics	Chalk & Talk	T1,T3
6	Importance of managerial economics	Chalk & Talk	T1,T3
7	Relationship with other areas in Economics	Chalk & Talk	T1,T3
8	The role of managerial economist	Chalk & Talk	T1,T3
9	Concept of opportunity cost	Chalk & Talk	T1,T3 R1
10	Incremental concept	Chalk & Talk	T1,T3 R1
11	Time Perfective	Chalk & Talk	T1,T3 R1
12	Discounting Principle	Chalk & Talk	T1,T3
13	Risk	Chalk & Talk	R1 T1,T3 R1
14	uncertainty	Chalk & Talk	T1,T3

1	Demand Analysis	Chalk & Talk	TI,T
755		Chalk & Talk	
2	Elasticity of demand		TI,T
_	Elasticity of definant	Chalk & Talk	R1 T1,T
3	types and significance of Elasticity of Demand		RI
4		Chalk & Talk	TI,T
	Measurement of price Elasticity of Demand		RI
5	Need for Demand forecasting	Chalk & Talk	T1,T
	Need for Demand forecasting	Chalk & Talk	RI
6			T1,T
	Demand forecasting	Chalk & Talk	R1 T1,T
7	forecasting techniques	Chark & Talk	R1
8	3	Chalk & Talk	
0	supply		T1,T
9		Chalk & Talk	T1,T
-	law of Supply	CI. II. a m II	R1
10		Chalk & Talk	T1,T
TO A STATE OF THE	Elasticity of Supply.		R1
UNI	Γ-III Supply and Production Analysis		
1	Supply and Production Analysis	Chalk & Talk	T1,T
	ouppry und i roddottom rimarysts	Chalk & Talk	R1
2	Production function		T1,T
	Production function	Chalk & Talk	R1 T1,T
3	Marginal Rate of Technical Substitution	Chair & Tair	R1
4	a s	Chalk & Talk	m, m
	Production factors		T1,T
5	Production functions	Chalk & Talk	T1,T
	Production functions	Chalk & Talk	Ri
6	We also be the second of the s	Chair de Taix	T1,T
_	Production function with one/two variables	Chall a Tall	R1
7	Cobb-Douglas Production Function	Chalk & Talk	T1,T
8		Chalk &Talk	
0	Returns to Scale		TI,T
9		Chalk & Talk	R1 T1,T
916	Laws of returns.		R1

1	Cost theory and estimation	Chalk & Talk	T1,T3
2		Chalk & Talk	
2	Cost concepts	17	T1,T3
3	determinants of cost, cost	Chalk & Talk	T1,T3
4	output relationship in the short run and long run	Chalk & Talk	T1,T3
5	Modern development in cost theory	PPT	T1,T3
6	Saucer shaped short	Chalk & Talk	T1,T3
7	run Average cost curves	Chalk & Talk	T1,T3
8	Average total cost curve	Chalk & Talk	T1,T3
9	Cost - Volume - Profit analysis	Chalk & Talk	T1,T3
INI		14	1
JNI 1	Γ-V Market Structure and Pricing practices	Chalk & Talk	T1,T3
		Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3
1	Γ –V Market Structure and Pricing practices  Market Structure and Pricing practices	MA COMPANION PROPERTY.	T1,T3 R5 T1,T3 R5 T1,T3
1 2	Γ-V Market Structure and Pricing practices  Market Structure and Pricing practices  Features and Types of different Markets	Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3	<ul> <li>Γ-V Market Structure and Pricing practices</li> <li>Market Structure and Pricing practices</li> <li>Features and Types of different Markets</li> <li>Price</li> </ul>	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3	<ul> <li>Γ-V Market Structure and Pricing practices</li> <li>Market Structure and Pricing practices</li> <li>Features and Types of different Markets</li> <li>Price</li> <li>Output determination in Perfect competition</li> </ul>	Chalk & Talk Chalk & Talk PPT	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5
1 2 3 4 5	<ul> <li>Γ-V Market Structure and Pricing practices</li> <li>Market Structure and Pricing practices</li> <li>Features and Types of different Markets</li> <li>Price</li> <li>Output determination in Perfect competition</li> <li>Monopoly</li> </ul>	Chalk & Talk Chalk & Talk PPT Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4 5	<ul> <li>Γ-V Market Structure and Pricing practices</li> <li>Market Structure and Pricing practices</li> <li>Features and Types of different Markets</li> <li>Price</li> <li>Output determination in Perfect competition</li> <li>Monopoly</li> <li>Monopolistic competition and Oligopoly</li> </ul>	Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5
1 2 3 4 5 6	Market Structure and Pricing practices  Market Structure and Pricing practices  Features and Types of different Markets  Price  Output determination in Perfect competition  Monopoly  Monopolistic competition and Oligopoly  Monopolistic competition and Oligopoly both in the long run and short run	Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk PPT	T1,T3 R5 T1,T3
1 2 3 4 5 6 7	Market Structure and Pricing practices  Market Structure and Pricing practices  Features and Types of different Markets  Price  Output determination in Perfect competition  Monopoly  Monopolistic competition and Oligopoly  Monopolistic competition and Oligopoly both in the long run and short run  Pricing methods in practice	Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk PPT Chalk & Talk	T1,T3 R5
1 2 3 4 5 6 7 8	Market Structure and Pricing practices  Market Structure and Pricing practices  Features and Types of different Markets  Price  Output determination in Perfect competition  Monopoly  Monopolistic competition and Oligopoly  Monopolistic competition and Oligopoly both in the long run and short run  Pricing methods in practice  Bain's limit pricing theory	Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk PPT Chalk & Talk PPT Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3

#### Text books:

- 1. Paul, Koushil: "Managerial Economics", Cengage Learning, New Delhi
- Siddiqui S A, Siddiqui A S: "Managerial Economics", and Financial Analysis", New Age International Publishers, New Delhi, 2008.
- 3. Vanita Agarwal: "Managerial Economics", Pearson, New Delhi, 2013

#### Reference Books:

- 4. Dominick Salvatore: "Managerial Economies", Oxford University Press, New Delhi, 2010.
- O'Sullivan, Sheffrin, Perez "Micro Economics: Principles, Applications and Tools", Pearson Education.
- 3. Mithani D M: "Managerial Economics", Himalaya Publishing House, Mumbai, 2008
- 4. Atmanand: "Managerial Economics", Excel Publications. New Delhi, 2012

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#### LESSON PLAN

Faculty Name

: RAKESH SINGH

Course Name

: STRATEGIC HUMAN RESOURCE MANAGEMENT

Academic Year

: 2018-19 III Semester

Degree & Branch

: PG, MBA

S.No	Торіс	Teaching Aid	Books
	UNIT I – Human Resource Stra	tegy	
1	Human Resource Strategy	Chalk & Talk	T1,T3 R1
2	Importance of Human Resources to Strategy	Chalk & Talk	T1,T3 R1
3	Human Resources contribution to strategy	Chalk & Talk	T1,T3
4	strategy driven role behaviors	Chalk & Talk	T1,T3 R1
5	strategy practices	Chalk & Talk	TI,T3
6	Organizational Learning	Chalk & Talk	T1,T3
7	Learning objectives	Chalk & Talk	T1,T3 R1
8	Human resource management	Chalk & Talk	TI,T3
9	Human Resource Manager	Chalk & Talk	T1,T3 R1
10	Functions of HR Manager	Chalk & Talk	T1,T3
11	Strategy	Chalk & Talk	T1,T3 R1
12	Strategic planning	Chalk & Talk	T1,T3
13	Strategic planning importance	Chalk & Talk	T1,T3 R1
14	Objectives of strategic planning	Chalk & Talk	T1,T3

1	Strategy Implementation	Chalk & Talk	T1,T3
		Chalk & Talk	
2	Work - force		T1,T3
3	Work - force	Chalk & Talk	T1,T3
3	Work - force	Chalk & Talk	RI
4		Chark & Talk	T1,T3
171	Work - force utilization	Chalk & Talk	RI
5	Employment practices	Chaik & Taik	T1,T3
		Chalk & Talk	
6	Efficient utilization of Human resources		T1,T3
7	The state of the s	PPT	T1,T3
-	Dealing with employee surpluses	Chalk & Talk	RI
8		Cliaix & Taix	T1,T3
	employee shortages	Chalk & Talk	R1
9	Selection of employees	Chaik & Taik	T1,T3
		Chalk & Talk	
10	Process of selection of employees		T1,T3
JNIT	Γ-III Strategy Implementation		
1		Chalk & Talk	T1,T3
-	Strategy Implementation	Chalk & Talk	R1
2	_	Cildik & Talk	TI,T
	Reward	Cl. II. e T. II	R1
3	Development Systems	Chalk & Talk	TI,T3
12		Chalk & Talk	
4	Strategically oriented performance		TI,T
5		Chalk & Talk	T1,T3
-	performance measurement systems	Chalk & Talk	R1
6		Chair & Tair	T1,T
	Oriented performance	Challe & Talle	R1
7	Oriented performance measurement systems	Chalk & Talk	T1,T
8		Chalk &Talk	
0	Compensation system		TI,T
9	Strategically oriented compensation system	Chalk & Talk	T1,T:

1	Strategic Human Resource Development	Chalk & Talk	T1,T3
2	Its linkages with strategic Business Planning	Chalk & Talk	T1,T3
3	Concept of (SBP)	Chalk & Talk	T1,T3 R1
4	Organizing	Chalk & Talk	T1,T3
5	Organizing and structuring of Human Resource Development	Chalk & Talk	T1,T3
6	Human Resource Development in an organization	Chalk & Talk	T1,T3
7	Building core competencies through Human Resource Development	Chalk & Talk	T1,T3
8	Competency	Chalk & Talk	T1,T3
9	Competency mapping approaches	Chalk & Talk	T1,T3
			1
JNI 1	Γ –V Human Resource Evaluation  Human Resource Evaluation	Chalk & Talk	T1,T3
		Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3
1	Human Resource Evaluation		T1,T3
1 2	Human Resource Evaluation  Overview of evaluation	Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3

#### Text books:

- Charles R. Greer: Strategic Human Resource Management A General Manager Approach - Pearson Education, Asia.
- 2. Qudrisyed Mazhek: Management of HRD, IPE, 1996

#### Reference Books:

- Fombrum Charles & Tichy: Strategic Human Resource management John Wiley Sons, 1984
- Rao. T. V.: The Human Resource Development Missionary Oxford & IBH Publications Co., Pvt., Ltd..

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#### LESSON PLAN

Faculty Name Course Name

: SK.INTHIYA SULTANA

: ORGANIZATIONAL BEHAVIOR

Academic Year

: 2018-2019 II Semester

Degree & Branch

: PG, MBA

S.No	Topic	Teaching Aid	
	UNIT I – ORGANIZATIO	NAL BEHAVIOR	
1	Introduction - Nature and scope	Chalk & Talk	T1,T3 R1
2	linkages with other social sciences	Chalk & Talk	T1,T3 R1
3	Individual Roles and Organizational Goals	PPT	T1,T3 RI
4	Perspectives of Human Behavior	Chalk & Talk	T1,T3
5	Approach to Organizational behavior	Chalk & Talk	T1,T3 R1
6	models of organizational behavior	Chalk & Talk	TI,T3
UNIT	-II Perceptual Management		14.
1	nature - Process	Chalk & Talk	T1,T3 R1
2	selection, organization and interpretation	Chalk & Talk	T1,T3
3	Influencing factors	Chalk & Talk	TI,T3 R1
4	Motivation - Concepts, Needs and Motives and theories	Chalk & Talk	T1,T3
5	Leadership and Motivating people	PPT	T1,T3 R1
6	Leadership Theories, Attitudes and Values	Chalk & Talk	T1,T3
7	formation - types	PPT	T1,T3 R1
8	changes and behavior modification techniques	Chalk & Talk	T1,T3
UNIT	-III . Personality Development	1.	
1	Nature - Stages	Chalk & Talk	T1,T3 R1
2	Determinants of Personality	Chalk & Talk	T1,T3 R1

3	Johari Window	Chalk & Talk	T1,T3
4	Transactional Analysis	Chalk & Talk	T1,T3
5	Learning Processes	Chalk & Talk	T1,T3 R1
6	theories, Creativity and Creative Thinking	Chalk & Talk	T1,T3
7	Leadership	Chalk & Talk	T1,T3 R1
8	nature – skills	Chalk &Talk	T1,T3 R1
UNIT	Γ-IV . Inter-Personal Communication		
1	Listening, Feedback, Collaborative Processes in Work Groups	Chalk & Talk	T1,T3
2	Team Building, Team Decision Making,	Chalk & Talk	T1,T3
3	Conflict Resolution in Groups and Problem	Chalk & Talk	T1,T3 R1
		C1 - 11 - 0 T-11	T1,T3
4 UNIT	Solving Techniques  Γ – . Organizations:	Chalk & Talk	R1
4.6%		Chair & Tair	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11.77	Γ – . Organizations:  Taxonomy, Elements of Structure, Determinants of Structure,	Chalk & Talk	R1
UNIT	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization.</li> <li>Principles Underlying the</li> </ul>	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5
UNIT	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization.</li> </ul>	Chalk & Talk	T1,T3 R5 T1,T3 R5
1 2	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization.</li> <li>Principles Underlying the</li> </ul>	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5
1 2 3	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization.         Principles Underlying the         Design of Organizations, Organizational Culture, Power and Authority.     </li> </ul>	Chalk & Talk Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4	Taxonomy, Elements of Structure, Determinants of Structure,  Functional Aspects of Structure, Role Impingement, Stress in Organization.  Principles Underlying the  Design of Organizations, Organizational Culture, Power and Authority.  Organizational Development	Chalk & Talk Chalk & Talk Chalk & Talk PPT	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4 5	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization. Principles Underlying the</li> <li>Design of Organizations, Organizational Culture, Power and Authority.</li> <li>Organizational Development</li> <li>Goals, processes, change</li> </ul>	Chalk & Talk Chalk & Talk Chalk & Talk PPT Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4 5	<ul> <li>Γ – . Organizations:</li> <li>Taxonomy, Elements of Structure, Determinants of Structure,</li> <li>Functional Aspects of Structure, Role Impingement, Stress in Organization. Principles Underlying the</li> <li>Design of Organizations, Organizational Culture, Power and Authority.</li> <li>Organizational Development</li> <li>Goals, processes, change</li> <li>resistance to change</li> </ul>	Chalk & Talk Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6	Taxonomy, Elements of Structure, Determinants of Structure,  Functional Aspects of Structure, Role Impingement, Stress in Organization. Principles Underlying the Design of Organizations, Organizational Culture, Power and Authority.  Organizational Development  Goals, processes, change  resistance to change  Nature of OD	Chalk & Talk Chalk & Talk Chalk & Talk PPT Chalk & Talk Chalk & Talk PPT	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3

#### Text books

- K.Aswathappa: "Organizational Behavior-Text, Cases and Games", Himalaya Publishing House, New Delhi, 2008.
- Steven L McShane, Mary Ann Von Glinow, Radha R Sharma: "Organizational Behavior", Tata McGraw Hill Education, New Delhi, 2008.

#### Reference Books:

- Jerald Greenberg and Robert A Baron: "Behavior in Organizations", PHI Learning Private Limited, New Delhi,
- Pareek Udai: "Understanding Organizational Behavior", Oxford University Press, New Delhi.
- Jai B.P.Sinha: "Culture and Organizational Behavior", Sage Publication India Private Limted, New Delhi, 2008.

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#### LESSON PLAN

Faculty Name Course Name

: CH.VYSHNAVI

: MANAGEMENT OF INDUSTRIAL RELATIONS

Academic Year

: 2018-19 IV Semester

Degree & Branch

: PG, MBA

S.No	Topic	Teaching Aid	
	UNIT I – MANAGEMENT OF IN	NDUSTRIAL RELATIONS	
1	Industrial Relations Management	Chalk & Talk	T1,T3 R1
2	Concept- Evaluation	Chalk & Talk	T1,T3 R1
3	Background of industrial Relations in India	Chalk & Talk	T1,T3 R1
4	Influencing factors of IR in enterprise the consequences	Chalk & Talk	T1,T3
5	Economic	Chalk & Talk	T1,T3
6	Social and Political environments	Chalk & Talk	T1,T3
7	Employment Structure	Chalk & Talk	T1,T3 RI
8	Social Partnership	Chalk & Talk	T1,T3
9	Wider approaches to	Chalk & Talk	T1,T3
10	industrial relations-	Chalk & Talk	T1,T3
11	labour	Chalk & Talk	T1,T3
12	Labour Market	Chalk & Talk	T1,T3
UNIT	II Trade Unions		
1	Trade Unions	Chalk & Talk	T1,T3 R1
2	Introduction	Chalk & Talk	T1,T3
3	Definition	Chalk & Talk	T1,T3
4	objectives	Chalk & Talk	T1,T3
5	growth of Trade Unions in India	Chalk & Talk	T1,T3

6	Trade Unions Act	Chalk & Talk	T1,T3 R1
7	1926 and Legal framework	Chalk & Talk	T1,T3 R1
8	Union recognition-Union Problems-	Chalk & Talk	T1,T3
9	introduction ,Objective Membership, Financial Status.	Chalk & Talk	T1,T3 R1
	UNIT III Quality of Work I	ife	
1	Workers' Participation in Management	Chalk & Talk	T1,T3 R1
2	Worker's Participation in India,	Chalk & Talk	T1,T3
3	shop floor, Plant Level, Board Level-	Chalk & Talk	T1,T3 R1
4	Workers' Welfare in Indian scenario- Collective bargaining concepts & Characteristics	Chalk & Talk	T1,T3
5	Promoting peace. Wage and Salary administration	Chalk & Talk	T1,T3 R1
6	Nature & Significance of wage	Chalk & Talk	T1,T3
7	salary administration, essentials- Minimum wage	Chalk & Talk	T1,T3
8	Real wage, Incentives & fringe benefits	Chalk &Talk	T1,T3
9	Issues and Constraints in Wage Determination in India	Chalk & Talk	T1,T3
	UNIT IV Social Security	V)	140
1	Introduction and types	Chalk & Talk	T1,T3
15	Social Security in India, Health and Occupational safety programs	Chalk & Talk	R1 T1,T3
2		Chair & Tair	R1
3	Salient features of Workmen Compensation Act	Chalk & Talk	T1,T3 R1
4	Employees' State	Chalk & Talk	T1,T3 R1
5	Insurance Act relating to social security	Chalk & Talk	T1,T3
6	Workers' education objectives -Rewarding	Chalk & Talk	R1 T1,T3 R1
	UNIT -V Employee Grievances		1.33
4	Causes of Grievances	Chalk & Talk	T1,T3
1			RI
2	Conciliation, Arbitration and Adjudication	Chalk & Talk	T1,T3

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4	Standing Orders- Code Discipline	Chalk & Talk	T1,T3
5	Industrial Disputes	Chalk & Talk	T1,T3 R1
6	Meaning, nature and scope of industrial disputes	Chalk & Talk	T1,T3
7	Cases and Consequences of Industrial Disputes	Chalk & Talk	T1,T3 R1
8	Prevention and Settlement of industrial disputes in India.	Chalk & Talk	T1,T3

Text books: 1.

- 1. . Sinha: "Industrial Relations, Trade Unions and Labour Legislation", Pearson Education, New Delhi, 2013
- 2. Mamoria: "Dynamics of Industrial Relations", Himalaya Publishing House, New Delhi, 2010

#### Reference Books:

- 1. B.D.Singh: "Industrial Relations" Excel Books, New Delhi, 2010
- 2. Arun Monappa: "Industrial Relations", TMH, New Delhi. 2012
- Prof. N.Sambasiva Rao and Dr. Nirmal Kumar: "Human Resource Management and Industrial Relations", Himalaya Publishing House, Mumbai

4. Ratna Sen: "Industrial Relations", MacMillon Publishers, New Delhi, 2011

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# LESSON PLAN

: CH.VYSHNAVI

Faculty Name Course Name Academic Year

: Business Environment : 2017-2018 I Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I – Business Environment		
1	Business Environment	Chalk & Talk	T1,T3 R1
2	Importance at national and international level	Chalk & Talk	T1,T3
3	problems	Chalk & Talk	T1,T3 R1
4	challenges	Chalk & Talk	TI,T3
5	factors of business environment	Chalk & Talk	T1,T3 R1
6	internal and external influencing business environment	Chalk & Talk	T1,T3
7	Industrial policies	Chalk & Talk	TI,T3
8	Industrial policies since independence and their significance	Chalk & Talk	TI,T3
9	Characteristics of industrial policies	Chalk & Talk	T1,T3 R1
10	Importance of industrial policies	Chalk & Talk	T1,T3
11	regulatory	Chalk & Talk	T1,T3 RI
12	promotional framework	Chalk & Talk	T1,T3
13	Five-year plans	Chalk & Talk	T1,T3
14	Importance of five year plan	Chalk & Talk	T1,T3

1	Structure of Indian economy	Chalk & Talk	T1,T3
550	+	Chalk & Talk	
2	Nature significance		T1,T3
3		Chalk & Talk	T1,T
	Economic systems	Chalk & Talk	R1
4	structure of Indian industry		TI,T
5	Economic reforms in various sectors	Chalk & Talk	TI,T
	Economic reterms in various sectors	Chalk & Talk	101
6	nature		T1,T
7	nature	Chalk & Talk	T1,T
.,	Challenges social justice	CL II a m II	RI
8		Chalk & Talk	T1,T
0.000	Disinvestment mechanism		R1
9	problems and procedures	Chalk & Talk	TI,T R1
10/27		Chalk & Talk	
10	Sickness in Indian industry, competition Act 2002		T1,T
UNI	Γ-III Fiscal Policy		IKI
1	Fiscal Policy	Chalk & Talk	T1,T
	riscal Policy	Chalk & Talk	R1
2	N		T1,T
_	Nature and significance	Chalk & Talk	RI TI,T
3	public revenues		R1
4		Chalk & Talk	T1,T
11.00	expenditure- debt		RI
5	Development activities allocation of funds	Chalk & Talk	T1,T
		Chalk & Talk	Kı
6	Critical analysis of the recent fiscal policy of Government of India		T1,T
7		Chalk & Talk	T1,T
-	Balance of Payments - Nature - Structure - major component	Challe am II	R1
8		Chalk &Talk	TI,T
	Causes for disequilibrium in Balance of Payments	(C) 11 0 m 11	R1
9	Correction measures.	Chalk & Talk	TI,T

1	India's Trade Policy	Chalk & Talk	T1,T3
	midia's Trade Policy	Chalk & Talk	KI
2	Nature – Magnitude and direction of Indian international trade		T1,T3
3	Problems bilateral and multilateral trade agreements	Chalk & Talk	T1,T3
4	International business environment:	Chalk & Talk	T1,T3
5	Nature	Chalk & Talk	T1,T3
6	significance	Chalk & Talk	T1,T3
7	challenges and mechanisms	Chalk & Talk	T1,T3 R1
8	WTO: Agreements in the Uruguay round including TRIPS, TRIMS and GATS	Chalk & Talk	T1,T3
		Chalk & Talk	T1,T3
9 UNIT	disputes settlement mechanism – dumping and antidumping measures  Γ –V Legal Frame		R1
UNI		Chalk & Talk	
UNIT		Chalk & Talk Chalk & Talk	T1,T3
UNI	Γ-V Legal Frame	Chalk & Talk	T1,T3 R5 T1,T3
UNIT	Γ –V Legal Frame  Legal Frame:	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3
UNIT	Legal Frame  Legal Frame:  special features of the SICA	Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3	Legal Frame  Legal Frame:  special features of the SICA  special provisions 1985	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3	Legal Frame:  Special features of the SICA  special provisions 1985  BIFR	Chalk & Talk Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4	Legal Frame:  special features of the SICA  special provisions 1985  BIFR  Consumer protection act 1986  Salient features of consumer protection act	Chalk & Talk Chalk & Talk Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4 5	Legal Frame:  special features of the SICA  special provisions 1985  BIFR  Consumer protection act 1986	Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6	Legal Frame:  special features of the SICA  special provisions 1985  BIFR  Consumer protection act 1986  Salient features of consumer protection act  Duties and responsibilities of consumers	Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6 7	Legal Frame:  special features of the SICA  special provisions 1985  BIFR  Consumer protection act 1986  Salient features of consumer protection act  Duties and responsibilities of consumers  Consumer rights  Environmental laws	Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6 7 8	Legal Frame:  special features of the SICA  special provisions 1985  BIFR  Consumer protection act 1986  Salient features of consumer protection act  Duties and responsibilities of consumers  Consumer rights  Environmental laws	Chalk & Talk	T1,T3 R5 T1,T3

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- Aswathappa K: "Essentials of Business Environment", Himalaya Publishing House, New Delhi, 2011
- 3. Vivek Mittal: "Business Environment Text and Cases", Excel Books New Delhi, 2011.
- Sundaram and Black: "International Business Environment Text and Cases", PHI Private Limited, New Delhi.

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## LESSON PLAN

Faculty Name Course Name

: B.PATCHIAH

: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Academic Year

: 2017-18 III Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I - Concept of Investment Educ	eation	
1	Concept of Investment Education	Chalk & Talk	T1,T3 R1
2	Investment Vs Speculation	Chalk & Talk	T1,T3
3	Investment alternatives	Chalk & Talk	T1,T3 R1
4	Investment Process	Chalk & Talk	T1,T3
5	Sources of Investment Information	Chalk & Talk	T1,T3 R1
6	Trading System in Stock Exchanges, Market Indices	Chalk & Talk	T1,T3
7	Calculation of SENSEX and NIFTY	Chalk & Talk	T1,T3
8	NIFTY	Chalk & Talk	T1,T3
9	Return and Risk Meaning	Chalk & Talk	T1,T3
10	Measurement of Security Returns	Chalk & Talk	T1,T3
11	Meaning and Types of Security Risks	Chalk & Talk	T1,T3 R1
12	Systematic Vs Non-systematic Risk	Chalk & Talk	T1,T3
13	Measurement of Risk	Chalk & Talk	T1,T3 R1
UNIT	-II Equity and Bond Valuation Models		
1	Equity and Bond Valuation Models	Chalk & Talk	T1,T3 R1

		Challe & Talle	r .
2		Chalk & Talk	T1,T3
-	Preference Shares		RI
3	Equity Shares Earning valuation	Chalk & Talk	T1,T3 R1
4	Cash flow valuation	Chalk & Talk	T1,T3
5	Asset Valuation	Chalk & Talk	T1,T3 R1
6	Dividend-discount model	Chalk & Talk	T1,T3
7	Valuation of Bonds	Chalk & Talk	T1,T3 R1
8	Bond Returns and Risks	Chalk & Talk	T1,T3
9	Bond Pricing Theorems convexity	Chalk & Talk	T1,T3 R1
10	duration, bond immunization	Chalk & Talk	T1,T3
UNIT	Γ-III Investment Analysis		
1	Investment Analysis	Chalk & Talk	T1,T3 R1
2	Fundamental Analysis	Chalk & Talk	T1,T3
3	Economy, Industry	Chalk & Talk	T1,T3
4	Company Analysis	Chalk & Talk	T1,T3
5	Technical Analysis	Chalk & Talk	T1,T3 R1
6	Dow Theory, Elliot Wave Theory	Chalk & Talk	T1,T3
7	Trends and Trend Reversals	Chalk & Talk	T1,T3 R1
8	Efficient Market Theory	Chalk &Talk	T1,T3
9	Hypothesis- Forms of Market Efficiency	Chalk & Talk	T1,T3
UNIT	-IV Portfolio Analysis and Selection.		151
1	Portfolio Analysis and Selection	Chalk & Talk	T1,T3 R1
2	Elements of Portfolio Management,	Chalk & Talk	

2 3 4 5 6 7 8	Sharpe Model  Jensen's Model for PF Evaluation  Evaluation of Mutual Fund  Chalk & Talk  Chalk & Talk	R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5
3 4 5 6 7	Sharpe Model  Jensen's Model for PF Evaluation  Evaluation of Mutual Fund  Chalk & Talk	R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5
3 4 5	Sharpe Model  Jensen's Model for PF Evaluation  Evaluation of Mutual Fund  Chalk & Talk	R5 T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
3 4 5	Sharpe Model  Sharpe Model  Chalk & Talk  Chalk & Talk  Chalk & Talk  Chalk & Talk  Evaluation of Mutual Fund	R5 T1,T3 R5 T1,T3 R5 T1,T3
3	Sharpe Model  Chalk & Talk  Chalk & Talk	R5 T1,T3 R5 T1,T3
	Chalk & Talk	R5 T1,T
2	Torrestitution of Torrestor	
520	Performance Evaluation of Portfolios  Chalk & Talk	T1,T
1	Portfolio Evaluation and Revision  Chalk & Talk	T1,T
UNI	T –V Portfolio Evaluation and Revision.	R1
9	Chalk & Talk Arbitrage Pricing Theory	T1,T
8	Chalk & Talk Capital Asset Pricing Model,	T1,T
7	Chalk & Talk Sharpe Single Index Model	T1,T R1
6	Chalk & Talk election of Optimal Portfolio	T1,T
5	Efficient Frontier PPT	T1,T R1
4	Markowitz Model Chalk & Talk	T1,T
	Portfolio Models Chalk & Talk	T1,T R1
3		R1

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   Punithavathy Pandian: Security Analysis and Portfolio Management, Vikas Publishing House, New Delhi, 2009.

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- Shashi K Gupta: Security Analysis Portfolio Management, Kalyani Publishers, New Delhi,2010
- Prasanna Chandra, Investment Analysis and Portfolio Management, 3/e Tata McGraw-Hill Publishing Co. Ltd. New Delhi, 2003
- 4. Ranganatham: Investment Analysis and Portfolio Management Pearson Education

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## LESSON PLAN

Faculty Name Course Name

: I.SANTHI LATHA

: FINANCIAL MANAGEMENT

Academic Year

: 2017-2018 II Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I – Financial Managem	ent	
1	Financial Management	Chalk & Talk	T1,T3 R1
2	Concept	Chalk & Talk	T1,T3
3	Nature and Scope	Chalk & Talk	T1,T3 R1
4	Evolution of financial Management	Chalk & Talk	T1,T3
5	The new role in the contemporary scenario	Chalk & Talk	T1,T3 R1
6	Goals and objectives of financial Management	Chalk & Talk	T1,T3
7	Firm's mission and objectives	Chalk & Talk	T1,T3 R1
8	Profit maximization	Chalk & Talk	T1,T3
9	Wealth maximization	Chalk & Talk	T1,T3 R1
10	Maximization	Chalk & Talk	T1,T3
11	Satisfying	Chalk & Talk	T1,T3 R1
12	Major decisions of financial manage	Chalk & Talk	T1,T3
13	Risk- Return	Chalk & Talk	T1,T3 R1
14	trade off	Chalk & Talk	T1,T3

1	Financing Decision	Chalk & Talk	T1,T3
2011		Chalk & Talk	
2			T1,T3
	Sources of finance	Chalk & Talk	R1 T1,T3
3	financial instruments	E	RI
10411	H	Chalk & Talk	T1,T
4	Concept and financial effects of leverage		R1
5		Chalk & Talk	T1,T
-	Preparation Capital Structure decision	Chalk & Talk	R1
6		Chair & Tair	T1,T
	EBIT		R1
7	EBC analysis	Chalk & Talk	T1,T
	EPS analysis	Chalk & Talk	KI
8			T1,T
	Cost of Capital	Chalk & Talk	R1 T1,T
9	The concept - Average vs. Marginal Cost of Capita,	Chair & Tair	R1
neres		Chalk & Talk	
10	Measurement of Cost of Capital, Component Costs and weighted Average Cost		T1,T
UNI	Γ-III Investment and Dividend Decision:	1	IKI
	I III III III DIVINI DI III DI	Chalk & Talk	T1,T
1	Investment decision process-	Chair to Tair	R1
		Chalk & Talk	m. m
2	Concept and Techniques of Time Value of money		T1,T
3		Chalk & Talk	T1,T
-	Developing Cash Flow Data Evaluation Techniques		Rl
4		Chalk & Talk	T1,T
5)	Traditional and DCF methods, NPV vs. IRR		R1
5	Approaches for reconciliation, Capital budgeting decision under conditions of	Chalk & Talk	T1,T
	uncertainty	Chalk & Talk	RI
6		Chair to raix	T1,T
	Measurement of Risk, Probability tree approach Sensitivity analysis	OL U. O. T. U.	R1
7	Dividend Decision: Major forms of dividends	Chalk & Talk	T1,T
10.22		Chalk &Talk	-5.4
8	The theoretical backdrop Major theories of Dividends		T1,T
0	The theoretical backdrop iviajor theories of Dividends	Chalk & Talk	R1 T1,T
9	Dividend policies of Indian Corporate	Cimin Co Laik	R1

1	Wastin Carlet Management	Chalk & Talk	T1,T3
	Working Capital Management	Chalk & Talk	KI
2			T1,T3
	Concepts	Chalk & Talk	RI T1,T3
3	characteristics of working capital		Rl
4		Chalk & Talk	T1,T3
•	Factors determining the working capital		RI
5	AND THE RESERVE TO TH	Chalk & Talk	TI,T
	Estimating working capital requirements	Chalk & Talk	KI
6	W. 1	The Administration of	TI,T
244	Working capital policy	Chalk & Talk	R1 T1,T3
7	Management of current assets like Cash		RI
8		Chalk & Talk	T1,T3
9	Receivables		R1
9	Inventory	Chalk & Talk	T1,T
UNI	Γ−V Mergers and acquisitions	Chalk & Talk	T1,T
edeautre	Γ−V Mergers and acquisitions	Chalk & Talk	T1,T3
1	T –V Mergers and acquisitions  Mergers and acquisitions	Chalk & Talk Chalk & Talk	T1,T3
1 2	Γ−V Mergers and acquisitions	Chalk & Talk	T1,T3 R5 T1,T3 R5
1	T –V Mergers and acquisitions  Mergers and acquisitions	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5
1 2	T –V Mergers and acquisitions  Mergers and acquisitions  Merger vs. acquisition  types of mergers	Chalk & Talk	T1,T1 R5 T1,T1 R5 T1,T1 R5
1 2 3 4	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India	Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3
1 2 3 4 5	T –V Mergers and acquisitions  Mergers and acquisitions  Merger vs. acquisition  types of mergers	Chalk & Talk Chalk & Talk Chalk & Talk Chalk & Talk	T1,T3 R5 T1,T3 R5 T1,T3 R5 T1,T3 R5
1 2 3 4	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India	Chalk & Talk	T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5
1 2 3 4 5	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover	Chalk & Talk Chalk & Talk Chalk & Talk Chalk & Talk	T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5
1 2 3 4 5 6	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover  Leveraged buy-outs	Chalk & Talk	T1,T7, R5
1 2 3 4 5 6 7	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover	Chalk & Talk	T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5
1 2 3 4 5 6	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover  Leveraged buy-outs	Chalk & Talk	T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5
1 2 3 4 5 6 7	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover  Leveraged buy-outs  Financial management in Government companies  Scope of finance function in PSUs	Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6 7 8	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover  Leveraged buy-outs  Financial management in Government companies  Scope of finance function in PSUs  Social responsibility of PSUs	Chalk & Talk	T1,T3 R5 T1,T3
1 2 3 4 5 6 7 8 9	Mergers and acquisitions  Merger vs. acquisition  types of mergers  mergers and acquisition trends in India  Tender offer  hostile takeover  Leveraged buy-outs  Financial management in Government companies  Scope of finance function in PSUs	Chalk & Talk	T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5 T1,T7 R5

 P.Vijaya Kumar, P.S. Ravindra, Kiran Kumar, "Financial Management", Himalaya Publishing House PVT Ltd, 2014.

 Rajiv Srivastava, Anil Misra: "Financial Management", Oxford University Press, New Delhi, 2012

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- Prasanna Chandra: "Financial Management Theory and Practice", Tata McGrawHill 2011
- 3. I.M. Pandey: "Financial Management", Vikas Publishers, New Delhi, 2013.

1. Bond

4. RM Srivastava, Financial Management, Himalaya Publishing house, 4th edition.

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# LESSON PLAN

Faculty Name Course Name

: K.DIVYA JYOTHI

: ENTREPRENEURSHIP DEVELOPMENT

Academic Year

: 2017-18 IV Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I - Entrepreneurship		
1	Entrepreneurship: Importance and growth	Chalk & Talk	T1,T3 R1
2	Characteristics and Qualities of Entrepreneur	Chalk & Talk	T1,T3
3	Role of Entrepreneurship, Ethics and Social Responsibilities	Chalk & Talk	T1,T3 R1
4	Women Entrepreneurship: Role & Importance	Chalk & Talk	T1,T3
5	Problems of Women Entrepreneurs	Chalk & Talk	T1,T3 R1
6	corporate entrepreneurship	Chalk & Talk	T1,T3
7	mobility of entrepreneur	Chalk & Talk	T1,T3
8	entrepreneurial motivation	Chalk & Talk	T1,T3
UNIT	-II Training:		
1	Designing Appropriate Training Programme to inculcate Entrepreneurial Spirit	Chalk & Talk	T1,T3
2	Training for New and Existing Entrepreneurs	Chalk & Talk	T1,T3
3	Feedback and Performance of Trainees	Chalk & Talk	T1,T3 R1
4	Creativity and Entrepreneurship	Chalk & Talk	T1,T3
5	Sources and Methods of Ideas Planning and Development of Programmes	Chalk & Talk	T1,T3 R1
6	E-business Ventures	Chalk & Talk	T1,T3

			R1
7	New Venture Management	Chalk & Talk	T1,T3
8	Emerging Trends	Chalk & Talk	T1,T3
UNI	Γ-III Planning and Evaluation of Projects:		1.0000
1	Planning and Evaluation of Projects:	Chalk & Talk	T1,T3 R1
2	Growth of Firm	Chalk & Talk	T1,T3
3	Project identification	Chalk & Talk	T1,T3
4	Project identification selection	Chalk & Talk	T1,T3
5	Factors inducing growth	Chalk & Talk	T1,T3 R1
6	Project Feasibility Study	Chalk & Talk	T1,T3
7	Post Planning of Project	Chalk & Talk	T1,T3 R1
8	Project Planning	Chalk &Talk	T1,T3
9	Project Planning Control	Chalk & Talk	T1,T3 R1
UNIT	C-IV Small and Micro Enterprises	#	
1	Small and Micro Enterprises: Importance, definitions	Chalk & Talk	T1,T3 R1
2	Importance, definitions	Chalk & Talk	T1,T3
3	policies and their support to MSMEs	Chalk & Talk	T1,T3 R1
4	growth and growth strategies	Chalk & Talk	T1,T3
5	sickness in small business and remedies	Chalk & Talk	T1,T3 R1
6	small entrepreneurs in international business	Chalk & Talk	T1,T3
UNIT	-V Institutional support to entrepreneur and MSMEs		
1	Role of Government	Chalk & Talk	T1,T3

			R5
2	Role of IDBI,	Chalk & Talk	T1,T3
3	NIESBUD	Chalk & Talk	T1,T3 R5
4	SISI,	Chalk & Talk	T1,T3 R5
5	DIC	Chalk & Talk	T1,T3
6	Financial Institutions	Chalk & Talk	T1,T3 R5
7	Commercial Banks	Chalk & Talk	T1,T3 R5
8	Entrepreneurial Development Institutes	Chalk & Talk	T1,T3 R5
9	Entrepreneurial Development Institutes	Chalk & Talk	T1,T3
10	Universities and other Educational	Chalk & Talk	T1,T3

- Arya Kumar: "Entrepreneurship", Pearson, Publishing House, New Delhi, 2012 Delhi, 2013.
- 2. VSP Rao, Kuratko: "Entrepreneurship', Cengage Learning, New Delh
- 3. K.Ramachandran: "Entrepreneurship Development", TMH, New Delhi, 2012

#### Reference Books:

- B.Janakiram, M Rizwana: "Entrepreneurship Development" Excel Books, New Delhi, 2011,
- Rajeev Roy: "Entrepreneurship", Oxford University Press, New Delhi, Industrial Relations", Himalaya Publishing House, Mumbai
- P.C.Shejwalkar: "Entrepreneurship Development", Everest Publishing House, New Delhi, 2011
- Manjunatha, Amit Kumar Goudar: "Management and Entrepreneurship" University Science Press, New Delhi, 2011

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Faculty In-charge



## LESSON PLAN

Faculty Name Course Name Academic Year : I.SANTHI LATHA

: Accounting for Managers : 2016-2017 | Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I - Accenting proces	s	
1	Accenting process	Chalk & Talk	T1,T3 R1
2	Definition of accounting	Chalk & Talk	T1,T3
3	Accounting Concepts and conventions	Chalk & Talk	T1,T3 R1
4	Accounting Cycle	Chalk & Talk	T1,T3
5	Classification of accounts	Chalk & Talk	T1,T3 R1
6	Accounting equations	Chalk & Talk	T1,T3
7	Static and dynamic nature of accounting	Chalk & Talk	T1,T3 R1
8	problems	Chalk & Talk	T1,T3
9	Users of accounting information	Chalk & Talk	T1,T3 R1
10	Books of original entry	Chalk & Talk	T1,T3
11	ledger	Chalk & Talk	T1,T3 R1
12	Problems on ledger	Chalk & Talk	T1,T3 R1
13	Preparation of Trial balance	Chalk & Talk	T1,T3 R1
14	Problems in Trial balance	Chalk & Talk	T1,T3

1	Final Accounts	Chalk & Talk	T1,T3
•	r mai Accounts	Chalk & Talk	R1
2	Preparation and Presentation of income statement	Chair & Tair	T1,T3 R1
3	Balance Sheet with Adjustments	Chalk & Talk	T1,T3 R1
4	Accounting standards	Chalk & Talk	T1,T3 R1
5	Preparation and Presentation of Company Final Accounts	Chalk & Talk	T1,T3 R1
6	Problems in final Accounts	Chalk & Talk	T1,T3
7	Problems	Chalk & Talk	T1,T3 R1
8	Problems	Chalk & Talk	T1,T3
9	Financial Statements	Chalk & Talk	T1,T3 R1
10	Limitations of	Chalk & Talk	T1,T3
UNIT	-III Financial Analysis		1
1	Financial Analysis	Chalk & Talk	T1,T3 R1
2	The scope and purpose of financial analysis	Chalk & Talk	T1,T3
3	financial statement analysis	Chalk & Talk	T1,T3 R1
4	Ratio analysis	Chalk & Talk	T1,T3
5	liquidity, activity, structural, coverage and profitability ratios	Chalk & Talk	T1,T3 R1
6	Funds flow analysis	Chalk & Talk	T1,T3
7	concepts of funds; ascertaining funds from operations	Chalk & Talk	T1,T3 R1
8	Sources of funds - Uses of funds	Chalk &Talk	T1,T3
9	Preparation and analysis of funds flow statement and cash flow statement	Chalk & Talk	T1,T3 R1

		Chalk & Talk	T1,T3
1	Cost accounting concepts	Chalk & Talk	RI
2	Methods of Costing,		T1,T3 R1
3	Techniques of Costing	Chalk & Talk	TI,T3 R1
4	Role of Cost accounting	Chalk & Talk	T1,T3
5	Elements of cost	Chalk & Talk	T1,T3
6	Financial accounting Vs Management Accounting	Chalk & Talk	T1,T3
7	Basic Cost concepts	Chalk & Talk	T1,T
8	Determination of product cost	Chalk & Talk	TI,T.
9		Chalk & Talk	T1,T
	Preparation of cost sheet under different cost heads  T –V Cost behavior and Decision making		R1
	T-V Cost behavior and Decision making  Cost behavior and Decision making	Chalk & Talk	T1,T
JNI	T-V Cost behavior and Decision making	Chalk & Talk	T1,T R5 T1,T R5
JNI'	T-V Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed,	Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T
JNI'	T-V Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs	Chalk & Talk Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T
JNI' 1 2 3	Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making	Chalk & Talk Chalk & Talk Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3	T-V Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3 4 5	T-V Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis  Key factor distribution	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5
1 2 3 4 5	Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis  Key factor distribution  Key factor analysis	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5
JNI 1 2 3 4 5 6 7	T –V Cost behavior and Decision making  Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis  Key factor distribution  Key factor analysis  Optimization of Product mix	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5
JNI 1 2 3 4 5 6 7 8	Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis  Key factor distribution  Key factor analysis  Optimization of Product mix  Make or Buy decisions	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
JNI 1 2 3 4 5 6 7 8 9	Cost behavior and Decision making  Behavioural classification of costs and methods for calculation of fixed, variable and semi variable costs  CVP analysis and decision making  Break Even analysis  Key factor distribution  Key factor analysis  Optimization of Product mix  Make or Buy decisions  Capacity utilization	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T

 Vijaya Kumar.P, Ravindra P.S., Kiran Kumar V: "Accounting for Managers", Himalaya Publishing House, New Delhi, 2013.

2. Shankarnarayana, Ramanath: "Finanacial Accounting for Management", Cengage

Learning, New Delhi.

 Ramachandran N, RamKumar Kakani: Financial Accounting for Management", McGraw Hill – 2013.

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- Amberish Gupta: "Financial Accounting for Management", Pearson Education, 2012.
- Dr. Jawahar Lal: "Accounting for management", Himalaya Publishing house, NewDelhi, 2012
- Asish K. Bhattacharyya: "Essentials of Financial Accounting", PHI Learning, New Delhi, 2012

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PULLADIGUNTA, GUNTUR-17.

Faculty In-charge



## LESSON PLAN

Faculty Name Course Name

: k. DIVYA JYOTHI

: STRATEGIC MANAGEMENT

Academic Year

: 2016-17 III Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I – Strategic Managemen	nt	-
1	Introduction, Strategic Management Concepts	Chalk & Talk	T1,T3 R1
2	Developing a strategic vision, Mission	Chalk & Talk	T1,T3
3	Objectives, Policies	PPT	TI,T3
4	vision, Mission	Chalk & Talk	T1,T3
5	Crafting a strategy	Chalk & Talk	T1,T3 R1
6	Factors that shape a company's strategy	Chalk & Talk	T1,T3
7	Industry and Competitive Analysis	Chalk & Talk	T1,T3
8	Strategic Management as a process	Chalk & Talk	T1,T3
9	Strategic Management importance	Chalk & Talk	T1,T3 R1
10	Strategic Management characterstics	Chalk & Talk	T1,T3
UNIT	-II Environmental Scanning		
1	Environmental Scanning and leadership Methods	Chalk & Talk	T1,T3 R1
2	SWOT Analysis	Chalk & Talk	TI,T3
3	Strategies and competitive advantages	Chalk & Talk	T1,T3 R1

		Chalk & Talk	
4			T1,T3
546	competitive advantages in diversified companies		R1
5	· · · · · · · · · · · · · · · · · · ·	PPT	T1,T3
	Strategic Analysis and Choice: Tools and techniques	CL II A T II	R1
		Chalk & Talk	T1,T3
6	Strategic Leadership		RI
	Strategic Leadership	PPT	T1,T3
7	Leadership and Style		RI
2500	The Assessment of the Control of the	Chalk & Talk	115 N 154545
8			T1,T3
	Key Strategic Leadership Actions	OL II A TILL	R1
9	Developing Human Conital and Social Conital	Chalk & Talk	T1,T3
	Developing Human Capital and Social Capital	Chalk & Talk	Rl
10		Chair & Tair	T1,T3
	Balanced Scorecard		RI
UNIT	-III Strategy Formulation		
33.55		Chalk & Talk	T1,T3
1	Strategy Framework For Analyzing Competition	Chair & Tair	R1
	outing, trained to the particular	Chalk & Talk	10.
2			T1,T3
	Porter's Value Chain Analysis,		R1
3		Chalk & Talk	T1,T3
-572	competitive Advantage of a Firm, Exit and Entry Barriers	CI II a m II	R1
4		Chalk & Talk	TI TO
7	Formulation of strategy at corporate, business and functional levels		T1,T3 R1
-	2 strategy at corporate, business and functional levels	Chalk & Talk	T1,T3
5	Types of Strategies	Chair & Turk	RI
V2-25		Chalk & Talk	
6		OVERTILE SON THE GREAT	T1,T3
	Tailoring strategy to fit specific industry		R1
7	restructuring and diversification strategies	Chalk & Talk	T1,T3
	restructuring and diversification strategies	Chalk &Talk	RI
8		Chair & Tair	T1,T3
	different methods Turnaround		RI
9	NO 72 NOVEMBER 442 F NOVEMBER 1550	Chalk & Talk	T1,T3
	strategy and diversification strategies	NEED CONTRACTOR OF SECTION	RI
LINITE	NI Communication of the contraction of the contract		
UNII	-IV Strategy Implementation		
		Chalk & Talk	Tri ma
1	Strategy and Structure, Leadership, culture	Chaik & Taik	T1,T3
		Chalk & Talk	RI
2	NEW AND THE STATE OF THE STATE	t Character Talk	T1,T3
	Strategies for competing in Globalizing markets		RI
3	Internal Control of the Control of t	Chalk & Talk	T1,T3
	internet economy		R1
4	Organizational Values and Their Impact on Strategy	Chalk & Talk	

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District	PPT	T1,T3
A4 50	Chalk & Talk	T1,T3
Planning systems for implementation	Chalk & Talk	T1,T3 R1
-V Strategy Evaluation and control		
Strategy Evaluation and control	Chalk & Talk	T1,T3 R5
	Chalk & Talk	T1,T3 R5
	Chalk & Talk	T1,T3 R5
	PPT	T1,T3 R5
Role of the strategist	Chalk & Talk	T1,T3 R5
using qualitative and quantitative benchmarking to evaluate performance	Chalk & Talk	T1,T3 R5
	PPT	T1,T3 R5
problems in measuring performance	Chalk & Talk	T1,T3 R5
Strategic surveillance	Chalk & Talk	T1,T3 R5
strategic audit	Chalk & Talk	T1,T3
	Strategy Evaluation and control  Establishing strategic controls  Measuring performance appropriate measures  Role of the strategist using qualitative and quantitative benchmarking to evaluate performance strategic information systems problems in measuring performance  Strategic surveillance	Resource Allocation  Planning systems for implementation  Chalk & Talk  Planning systems for implementation  Chalk & Talk  Strategy Evaluation and control  Strategy Evaluation and control  Chalk & Talk  Establishing strategic controls  Measuring performance  appropriate measures  Role of the strategist  Role of the strategist  chalk & Talk  using qualitative and quantitative benchmarking to evaluate performance  strategic information systems  Chalk & Talk  Chalk & Talk

- 1. Vijaya Kumar P,. Hitt A: Strategic Management, Cengage learning, New Delhi,
- 2. John A Pearcell, Amita Mital: "Strategic Management", TMH, New Delhi, 2012.
- 3. Sanjay Mohapatra: "Cases Studies in Strategic Management", Pearson, New Delhi, 2012
- Adrian Haberberg&Alison: Strategic Management, Oxford University Press, New Delhi, 2010

#### Reference Books:

- S.K.Sarangi:"Modern Strategic Management", Everest Publishing House, New Delhi, 2010.
- Nag A: "Strategic Management", Vikas Publishing House, New Delhi, 2011.
   R.Srinivasan: Strategic Management, PHI Learning, New Delhi, 2012
- 3. U.C.Mathur: "Strategic Management", MacMillan Pulishers, New Delhi, 2010

NI LAKSHANI IGINET Faculty In-cha



# LESSON PLAN

Faculty Name Course Name

: RAKESH SINGH

: HUMAN RESOURCE MANAGEMENT

Academic Year

: 2016-2017 II Semester

Degree & Branch

S.No	Торіс	Teaching Aid	Books
	UNIT I – HRM	7.	
1	HRM Significance	Chalk & Talk	T1,T3 R1
2	Definition HRM	Chalk & Talk	T1,T3 R1
3	Functions	Chalk & Talk	T1,T3 R1
4	evolution of HRM	Chalk & Talk	T1,T3 R1
5	Principles	Chalk & Talk	T1,T3 R1
6	Ethical Aspects of HRM	Chalk & Talk	T1,T3
7	HR policies	Chalk & Talk	T1,T3 R1
8	Strategies to increase firm performance	Chalk & Talk	T1,T3
9	Role and position of HR department	Chalk & Talk	T1,T3 R1
10	aligning HR strategy with organizational strategy	Chalk & Talk	T1,T3
11	HRM at global perspective	Chalk & Talk	T1,T3 R1
12	challenges	Chalk & Talk	T1,T3
13	cross-cultural problem	Chalk & Talk	T1,T3 R1
14	emerging trends in HRM	Chalk & Talk	T1,T3

JNIT 1	HR Planning	Chalk & Talk	T1,T3
-	# # # # # # # # # # # # # # # # # # #	Chalk & Talk	14.1
2			TI,T3
-	Demand and Supply forecasting	Chalk & Talk	T1,T3
3	Recruitment and Selection		RI
4		Chalk & Talk	T1,T3
•	Sources of recruitment Tests and Interview Techniques		R1
5	Training and Development	Chalk & Talk	T1,T3
	Training and Development	Chalk & Talk	1
6			T1,T3
_	Methods and techniques	Chalk & Talk	T1,T3
7	Training evaluation - retention - Job Analysis		R1
8	05	Chalk & Talk	T1,T3
	job description and specifications		R1
9	Management development	Chalk & Talk	T1,T3
_	Wanagement development	Chalk & Talk	KI
10	HRD concepts.		TI,T3
UNI	Γ-III Performance Evaluation	<del></del>	1
1		Chalk & Talk	T1,T3
	Performance Evaluation	Chalk & Talk	RI
2	See to see the see	Chair & Tair	T1,T3
	Importance – Methods	Challe 9, Talle	R1
3	Traditional and Modern methods	Chalk & Talk	T1,T3
20401		Chalk & Talk	m. m
4	Latest trends in performance appraisal		TI,T3
5		Chalk & Talk	T1,T3
127/1	Career Development and Counseling	Chalk & Talk	RI
6		Chaix & Taix	T1,T3
1041	Compensation, Concepts and Principles	Chalk & Talk	R1
7	Influencing Factors	Chark & Talk	TI,T3
8		Chalk &Talk	
8	Current Trends in Compensation- Methods of Payments		T1,T3
9		Chalk & Talk	T1,T3
	compensation mechanisms at international level		RI

1	Wage and Salary Administration	Chalk & Talk	T1,7
2	Concept- Wage Structure	Chalk & Talk	T1,7
3	Wage and Salary Policies Legal Frame Work	Chalk & Talk	TI,
4	Determinants of Payment of Wages	Chalk & Talk	T1,1
5	Wage Differentials - Job design and Evaluation	Chalk & Talk	TI,
6	Incentive Payment Systems	Chalk & Talk	T1,1
7	Welfare management: Nature and concepts	Chalk & Talk	TI,
8	Statutory and non -statutory welfare measures	Chalk & Talk	T1,7
9	incentive mechanisms	Chalk & Talk	T1,7
	Γ –V Managing Industrial Relations	Chalk & Talk	R1
	Γ –V Managing Industrial Relations		-41
ı	Managing Industrial Relations	Chalk & Talk Chalk & Talk	T1,T R5 T1,T
t 2	Managing Industrial Relations  Trade Unions		T1,1 R5 T1,1 R5 T1,1
L 2	Managing Industrial Relations  Trade Unions  Employee Participation Schemes	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5
1 2 3	Managing Industrial Relations  Trade Unions	Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining	Chalk & Talk Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5
NIT	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining  Grievances  disputes	Chalk & Talk Chalk & Talk Chalk & Talk Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5
1 2 3 5 5 5	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining  Grievances	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3 4 5 5	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining  Grievances  disputes  Grievances and disputes resolution mechanisms	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3 5 5 5	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining  Grievances  disputes  Grievances and disputes resolution mechanisms  Safety at work  nature and importance  work hazards	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T
1 2 3 5 5 5 5	Managing Industrial Relations  Trade Unions  Employee Participation Schemes  Collective Bargaining  Grievances  disputes  Grievances and disputes resolution mechanisms  Safety at work  nature and importance	Chalk & Talk	T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5 T1,T R5

- 1. K Aswathappa: "Human Resource and Personnel Management", Tata McGraw Hill, New Delhi, 2013
- 2. N.Sambasiva Rao and Dr. Nirmal Kumar: "Human Resource Management and Industrial Relations", Himalaya Publishing House, Mumbai
- 3. Mathis, Jackson, Tripathy: "Human Resource Management: Asouth-Asin Perspective", Cengage Learning, New Delhi, 2013

#### Reference Books:

- 1. Subba Rao P: "Personnel and Human Resource Management-Text and Cases", Himalaya Publications, Mumbai, 2013.
- 2. Madhurima Lall, Sakina Qasim Zasidi: "Human Resource Management", Excel Books, New Delhi, 2010

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# LESSON PLAN

Faculty Name Course Name : B. PITCHAIAH

Course Name Academic Year : LOGISTICS AND SUPPLY CHAIN MANAGEMENT

: 2016-17 IV Semester

Degree & Branch

S.No	Topic	Teaching Aid	Books
	UNIT I – Logistics and Competitive strate	gy	
1	Logistics and Competitive strategy	Chalk & Talk	T1,T3 R1
2	Competitive advantage – Gaining Competitive advantage	Chalk & Talk	T1,T3
3	Integrated supply chains	PPT	T1,T3 R1
4	Competitive performance	Chalk & Talk	T1,T3
5	Models in Logistics Management	Chalk & Talk	T1,T3 R1
6	Logistics to Supply Chain Management	Chalk & Talk	T1,T3
7	Focus areas in Supply Chain Management	Chalk & Talk	T1,T3 R1
8	Customer service and retention	Chalk & Talk	T1,T3
9	Basic service capability	Chalk & Talk	T1,T3 R1
10	Value added services	Chalk & Talk	T1,T3
UNIT	-II Measuring logistics costs and performance		
1	Measuring logistics costs and performance	Chalk & Talk	T1,T3 R1
2	The concept of Total Cost analysis	Chalk & Talk	T1,T3
3	Principles of logistics costing	Chalk & Talk	TI,T3 RI



		Chalk & Talk	
		Chair & Tair	T1,T3
4	* to the things the		RI
-	Logistics and the bottom-line	PPT	T1,T3
5		PPI	RI
	Impact of Logistics on shareholder value	Chalk & Talk	Kı
,		Chark & Talk	T1,T3
6			R1
	customer profitability analysis	PPT	T1,T3
7	diamet and direct and Geoblither	rr i	RI
IAN:	direct product profitability	Chalk & Talk	KI
8		Chair & Tair	T1,T3
0	cost drivers and activity-based costing		RI
			Kı
INIT	-III Logistics and Supply chain relationships		
1		Chalk & Talk	T1,T3
·*	Logistics and Supply chain relationships		R1
		Chalk & Talk	
2			T1,T3
	Benchmarking the logistics process and SCM		R1
3		Chalk & Talk	T1,T3
(F) (	Operations, Mapping the supply chain processes		RI
20		Chalk & Talk	
4			TI,T
	Supplier and distributor benchmarking		R1
5		Chalk & Talk	T1,T3
22.00	setting benchmarking priorities		R1
,		Chalk & Talk	/2//
6	11-46 1-1-1-1		T1,T
	identifying logistics performance indicators	GI II 0 TT II	R1
7	Channel structure	Chalk & Talk	T1,T3
_	Chamnel structure	OL II OT II	R1
8		Chalk &Talk	Tre Tre
0	Economics of distribution		T1,T3
-	Economics of distribution	Challe 6 Tall	R1
9	channel relationships -logistics service alliances	Chalk & Talk	T1,T3
77.	enamer relationships -logistics service amances		RI
UNIT	-IV Sourcing		
	20 P. I		
		Chalk & Talk	T1,T3
1	Transporting and Pricing Products	Chain & Tan	RI
		Chalk & Talk	1.1.
2		1 Talk	T1,T3
1000	sourcing decisions and transportation in supply chain		RI
3		Chalk & Talk	T1,T3
3	infrastructure suppliers of transport services		RI
4		Chalk & Talk	
**	transportation economics and pricing	- Turk	
5	documentation - pricing and revenue management Lack of coordination and	PPT	T1,T3
,	Bullwhip Effect		RI
6		Chalk & Talk	200
	Impact of lack of coordination		

			R1
7	CRM -Internal supply chain management -	Chalk & Talk	T1,T3 R1
UNIT	Γ-V Managing global Logistics and global Supply Chain		
1	Logistics in a global economy	Chalk & Talk	T1,T3 R5
2	views of global logistics global operating levels -	Chalk & Talk	T1,T3 R5
3	Interlinked global economy	Chalk & Talk	T1,T3 R5
4	The global supply chains -Global supply chain business processes	PPT	T1,T3 R5
5	Global strategy –Global purchasing	Chalk & Talk	T1,T3 R5
6	Global purchasing	Chalk & Talk	T1,T3 R5
7	Global logistics	Chalk & Talk	T1,T3
8	Channels in Global logistics	Chalk & Talk	T1,T3
9	Global alliances	Chalk & Talk	T1,T3
10	Issues and Challenges in Global supply chain Management	Chalk & Talk	T1,T3
	Total Number Of Periods: 64	•	

- Donald J.Bowersox and David J.Closs: "Logistical Management" The Integrated Supply Chain Process, TMH, 2011.
- Edward J Bradi, John J Coyle: "A Logistics Approch to Supply Chain Management, Cengage Learning, New Delhi, 2012
- D.K.Agrawal: "Distribution and Logistics Management", MacMillan Publishers, 2011
   Reference Books:
  - Sunil Chopra and Peter Meindl: "Supply chain Management: Strategy, Planning and Operation", Pearson Education, New Delhi 2013.
  - 2. Rahul V Altekar: Supply Chain Management, PHI Learning Ltd, New Delhi, 2009

3. R.P.Mohanthy: Supply Chain Management, Biztantra, New Delhi, 2010

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