

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

#### DEPARTMENT OF CIVIL ENGINEERING

#### I Year - I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1101	Mathematics – I	3	0	0	3
2	BS1102	Mathematics – II	3	0	0	3
3	BS1108	Engineering Physics	3	0	0	3
4	ES1104	Engineering Mechanics	3	1	0	4
5	ES1103	Engineering Drawing	1	0	3	. 2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1109	Engineering Physics Lab	0	0	3	1.5
8	PR1101	Engineering Exploration Project	0	0	2	1
		Total Credits	16	0	12	19.5

#### I Year - II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1201	English	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1210	Engineering Chemistry	3	.0	0	3
4	ES1201	Programming for problem Solving Using C	3	0	0	3
5	ES1207	Computer Aided Engineering Drawing	1	0	3	2.5
6	ES1202	Programming for problem Solving Using C Lab	0	0	3	1.5
7	BS1211	Engineering Chemistry Lab	0	0	3	1.5
8	HS1203	Communications Skills Lab	0	0	3	1.5
9	ES1219	Workshop Practice Lab	0	0	3	1.5
10	MC1201	Environmental Science	3	0	0	0
		Total Credits	15	0	11	20.5

# TENTATIVE LESSON PLAN: R19BS1101

Section : CI Revision No			: 01 of 02
Tools: Black		Approve	ed By: HOD
No. of Period		Date	Mode of Delivery
UNIT-1: SEC	QUENCES, SERIES AND MEAN VALUE THEOR	EMS	Benvery
	nean value theorems to real life problems		
TB:" Enginee	ering Mathematics", Dr. T.K.V. Iyengar; S.Chand p	ublications	
1	SEQUENCES AND SERIES:		
	Convergence and Divergence		
2	Ratio test		
3	Comparison test	er de la les estados de la composição de	
4	Integral test	From:	
5	Cauchy 's root test	26-08-2019	Lecture
6	Alternating series		intersperse
7	Leibnitz 's rule	To:	with
8	Mean Value Theorems:	14-09-2019	discussion
	Rolle 's Theorem		
9	Lagrange 's mean value theorem		
10	Cauchy 's mean value theorem		•
11	Taylor 's and Maclaurin 's theorems with		
	remainders		
UNIT-II D	IFFERENTIAL EQUATIONS OF FIRST ORDER AN	D FIRST DEEG	REE
CO2: Solve th	ne differential equations related to various engineer	ing fields	
	ing Mathematics", Dr. T.K.V.Iyengar; S.Chand pu		
12	Introduction: Differential Equations of First order		
	first degree		
13	Exact Equations – Conditions of Exactness		
14	Equations reducible to Exact		
15	Non Exact Differential Equations	From:	
16	Linear Differential Equations of first order	16-09-2019	
17	Bernouli Equation		Lecture
18	Equations reducible to linear	То:	intersperse
19	Orthogonal Trajectories - Cartesian		with
20	Orthogonal Trajectories - Cartesian Orthogonal Trajectories - Polar	05-10-2019	discussions
21	Newton's law of cooling		
22	Natural growth or decay		
23	Electrical Circuits		

CO3: Solve	the differential equations related to various eng	of production and a subsequent of the subsequent	
TB:" Engin	eering Mathematics", Dr. T.K.V.Iyengar; S.Cha	ineering fields	
24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x), Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	
28	$Q(x) = e^{ax}V(x)$	&	with
29	Q(x) = xV(x)	From:	discussions
30	$Q(x) = x^n \sin ax \ or \ \cos ax$	28-10-2019	
31	Method of variation of parameters	To:	
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV	PARTIAL DIFFERENTIATION		
CO4: Famili	rize with functions of several variables which is		
TB: Engine	ering Mathematics", Dr. T.K.V.Iyengar; S.Char	useiui in optimiza	ition
33	Homogeneous function; Euler's Theorem	d publications	
34	Total Derivative; Chain rule		
35	Taylor's mean value theorems	From: 11-11-2019	
36	Maclaurin's series		Lecture
37	Jacobians, formulae	To:	interspersed with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
	LTIPLE INTEGRALS		
CO5: Apply of TB: Engineer	double integration techniques in evaluating area ring Mathematics", Dr. T.K.V.Iyengar; S.Chan	s bounded by regi	on
41	Introduction	From:	
42	Double integrals	02-12-2019.	
43	Triple integrals		Lecture
44	Change of order of integration	To:	interspersed with
45	Change of variable	21-12-2019	discussions
46	Applications: Finding areas		
47	Finding volumes		

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# TENTATIVE LESSON PLAN: R19BS1102

Section : CE	Date: 26/08/2019	Page N	o: 01 of 03
Revision No: 0			ed By : HOI
Tools: Black be	pard	110010	ca by . Hor
No. of Periods	TOPIC	Date	Mode of Delivery
UNIT – I: LIN	EAR SYSTEM OF EQUATIONS		
CO1: To instru	ct the concept of Matrices in solving algebraic	equations	
TB:" Engineeri	ng Mathematics", Dr. T.K.V.Iyengar; S.Chand	d publications	
1	Introduction to matrices		
2	Rank of matrix- definition, properties		
3	Problems on rank by Echelon form		
4	Rank by normal form		
5	PAQ form problems		
6	Homogeneous system AX=0	From:	
7	Non Homogeneous system AX=B	26-08-2019	Lecture
8	Problems on rank method	То	intersperse with discussions
9	Gauss Elimination method	17-09-2019	
10	Applications on finding current in a circuit		
11	Eigenvalues-definition		
12	Properties of Eigen values ·		
13	Properties of Eigen values		
14	Problems on finding Eigen values, vectors		
15	Problems on finding Eigen values, vectors		
JNIT – II:CAYI	EY HAMILTON THEOREM, QUADRATIC FOR	RMS	
CO2: To determ	ine the eigen values and eigen vectors of a mat	rix and verifica	tion of Caley
Hamilton theor	em		•
ΓB:" Engineeri	ng Mathematics", Dr. T.K.V.Iyengar; S.Chand	publications	
16	Caley Hamilton theorem, verification, problems		
17	Diagonalization – problems		
18	Quadratic forms – definition, examples	From:	Lecture
19	Matrix form of a quadratic form	18-09-2019	interspersed
20	Canonical form of a quadratic form	То	with
The state of the s		12-10-2019	discussions
21		12-10-2019	discussions
	Methods of reducing a QF in to canonical form Orthogonal reduction method	12-10-2019	discussions
21	Methods of reducing a QF in to canonical form	12-10-2019	discussions
21 22 23 24	Methods of reducing a QF in to canonical form Orthogonal reduction method	12-10-2019	discussions
21 22 23	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method	12-10-2019	discussions
21 22 23 24 25 UNIT – III: ITER	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method Lagrange's method Problems on finding nature of a QF RATIVE METHODS		
21 22 23 24 25 UNIT – III: ITER CO3: Evaluating	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method Lagrange's method Problems on finding nature of a QF RATIVE METHODS lengths of plane curves, volumes and surface areas	of solids of revol	
21 22 23 24 25 VNIT – III: ITER CO3: Evaluating 'B:" Engineering	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method Lagrange's method Problems on finding nature of a QF RATIVE METHODS lengths of plane curves, volumes and surface areas	of solids of revol	
21 22 23 24 25 UNIT – III: ITER CO3: Evaluating	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method Lagrange's method Problems on finding nature of a QF RATIVE METHODS	of solids of revol	
21 22 23 24 25 UNIT – III: ITER	Methods of reducing a QF in to canonical form Orthogonal reduction method Congruent operations method Lagrange's method Problems on finding nature of a QF RATIVE METHODS lengths of plane curves, volumes and surface areas Mathematics", Dr. T.K.V.Iyengar; S.Chand publications	of solids of revol	

and the second subject of			
29	Method-II: Regular False Method		
30	problems	From:	
31	Method-III: Iteration Method	14-10-2019	Lecture
32	problems	To	interspersed
33	Method-IV: Newton Raphson Method	02-11-2019	with
34	problems		discussions
35	Gauess-Jordan method		discussions
36	Gauess-Seidal iteration method		
	INTERPOLATION ating improper integrals by Gamma function,	definite inte	oral hy Reta
function	ering Mathematics", Dr. T.K.V.Iyengar; S.Chand		gran by Beta
37	Introduction		
38	Forward and backward differences		
39	Newton's forward interpolation formula -		
	problems	From:	Lecture
40	Newton's backward forward interpolation	04-11-2019.	interspersed
	formula -problems	То	with
41	problems	28-11-2019	discussions
42	Gauss Forward interpolation formula -problems		discussions
43	Gauss backward interpolation formula -problems		
44	Lagrange's Interpolation formula		
45	problems		
46 .	operators ·		
UNIT - V: N	UMERICAL INTEGRATION AND SOLUTION (	OF ODE	
CO5: To find	l gradient, divergent and curl by using differential	operator	
TB:" Engine	ering Mathematics", Dr. T.K.V.Iyengar; S.Chand J	oublications	
47	Trapezoidal rule		
48	Simpson's 1/3 <sup>rd</sup> rule		Lecture
· 49	Simpson's 3/8 <sup>rd</sup> rule	From	interspersed
50	Taylor's series	29-11-2019	with
51	problems	То	discussions
52	Picard's method of successive approximation	21-12-2019	discussions
53	Euler's method		
54	Euler's modified method		

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Runge- kutta method

problems

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# TENTATIVE LESSON PLAN: BS1108/R19

Section	The state of the s	10 14 . The File . 2	Page N	o:1 of2
Revision	No :00 Prepared By : M. Vidya Elizabe		Appro	ved By: HO
Tools:				
No. of	TOPIC	D	ATE	Mode o
Periods				Delivery
UNIT	II : ACOUSTICS & ULTRASONICS			,
	CO2: Explain how sound is propagated in buildings,			
	analyze acoustic properties of typically used			
	materials in buildings and recognize sound level			
	disruptors and their use in architectural acoustics.	11.		
	Use of ultrasonics in flaw detection using NDT			
	technique.	Fr	om:	
1	A COLIGITION Later description D. 1	26-0	8-2019	
2	ACOUSTICS: Introduction, Reverberation  Reverberation time	-		
3	Sabine's formula	-	فا جانجينية	
4				
5	Formula (Derivation using growth and decay method)  Absorption coefficient and its determination	1		
6	Determination factorsaffecting acoustics of buildings			
	and their remedies.			
7	Problems			Lecture
8	ULTRASONICS: Introduction		To 14-09-2019	intersperse
9	Production of ultrasonics by Magnetostriction .	1 1		with
10	Non-Destructive Testing			discussion
11	Production of ultra-sonics by piezoelectric methods			
12	Detection of ultrasonic			
13	Acoustic grating - Non-Destructive Testing			
14	Pulse echo system through transmission mode			
15	Pulse echo system through reflection modes			
16	Applications			
UNIT	I : MECHANICS:			
	CO1: Identify forces and moments in mechanical			
	systems using scalar and vector techniques and			
	extend Newton's second law for inertial and non-			
	inertial frame of reference	Fro	m:	
17	David Issue of the state of the	16-09	-2019	
18	Basic laws of vectors and scalars			
19	Rotational frames			
20	Conservative and Non Conservative Forces			
21	F=-grad V, Newton's law of inertial			
22 .	Linear accelerating non inertial frames of references	_		Lecture
	Rotating frame of reference with constant angular velocity	T 5-10-		interspersed with
23	P Harmonic Oscillator;	5-10-	2019	discussions
24	Damped Harmonic Motion			
25	Forced Oscillations			
	Resonance		2000	
	Problems			
	III : ELASTICITY	Fro	m:	
TIV		14-10-		

	concepts, Study different types of moduli and their relation and analyze the concepts of shearing force and moment of inertia.	Same Tille	E constant
28	Stress&Strain		
29	Hooks law	То	
30	Stress-Strain Curve	11-11-2019	
31	Generalised Hooks law with thermal strains for isotropic materials		Lecture
32	Generalised Hooks law without thermal strains for isotropic materials		interspersed with
33	Different types of moduli and their relations		discussions
34 .	Bending of beams		
35	Bending moment of a beam		
36	Depression of cantilever.		
-37	Problems		
UNIT	IV: LASERS & SENSORS CO4: Understand the basic concepts of LASER light Sources and study different types of laser systems.  Identify different types of sensors and their working		
· · · -	principles.		
		From:	
38	LASER: Characteristics	13-11-2019	
. 39	Spontaneous and Stimulated Emission of Radiation	] 13-11-2019	
40	Population inversion		
41	Einstein coefficients		
42	Relation between them and their significance		
43	Pumping Mechanisms		
44	Ruby Laser & its applications	То	
45	He-Ne Laser & its Applications	28-11-2019	
46	SENSORS: Different types of sensors and applications		
47	Strain and Pressure sensors		
48	Piezoelectric, Magneto strictive sensors		
49	Temperature sensor		
50	Bimetallic strip, Pyroelectric detectors		
51	Problems		
UNIT	V: MAGNETISM & DIELECTRICS CO5: Explain the applications of dielectric and magnetic materials & Apply the concept of magnetism to magnetic devices.	From:	
52	MAGNETISM: Introduction	30-11-2019	
53	Magnetic dipole momentum, Magnetization-	30 11-2019	
54	Magnetic susceptibility and permeability		
55	Origin of permanent magnetic moment		
56	Bohr Magneton -Classification of magnetic materials (Dia, Para and Ferro)		
57	Soft and hard magnetic materials	То	almanio Oscilla
58	Applications of Ferromagnetic material	21-12-2019	medi Harmoni.
59	Problems a forced Oscillations	www.edu.wiisPor	ced Oscillations
60	DIELECTRICS: Introduction, Kesses	12.00 Pg   Rd.	SCHANCE :
61	Dielectric polarization Frome	18	0.00030
62	Susceptibility and Dielectricconstant	CASTACITY	EDASTICE
63		LaderstandG	

	64	Orientational polarizations		
	65	Lorentz internal field		
	66	Claussius_Mossoti equation-		
1	67	Loss, Breakdown and strength of dielectric materials		1724 Taurinas
	68	Frequency dependence of polarization - Applications of	Control of the contro	,
		dielectrics		
	69	Problems		

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# TENTATIVE LESSON PLAN

	NGINEERING DRAWING	Course C	Code: ES	31103
Section : I	Date: 26/08/2019			:01 of 02
Revision No : 0			Approve	ed By: HOD
Tools: Black be				
No. of Periods	TOPIC		Date	Mode of
UNIT-I IN	TRODUCTION TO DRAWING			Delivery
	TRODUCTION TO DRAWING			
	raw the polygons, curves.			
TB: "Engineer	ng Drawing", by N.D. Butt &V.M. Pane	chal, Char	iot Publi	shing House
Anand. 49th Ed				
1	Introduction		08/2019	
2	Lettering and Dimensioning		09/2019	
3	Geometrical constructions		09/2019	
4	Parabola, Ellipse and Hyperbola		09/2019	Lecture
5	Polygons		09/2019	intersperse
6	Cycloids		09/2019	with
7	Involutes		09/2019	discussions
8	Vernier scales	26/	09/2019	
9 UNIT-II IN	Plain scales, diagonal scale TRODUCTION TO ORTHOGRAPHIC		09/2019	
10	Projections of points in various quadrants	10/	10/2019	Lagtura
10	Projections of points in various quadrants	10/		Lecture
. 11	Projections of lines, lines parallel either of reference planes	the 11/	10/2019	interspersed
12	Determination of true lengths,	17/	10/2019	with
13	Angle of inclination and traces.		10/2019	discussions
	ROJECTIONS OF PLANES	10/	10/2019	
CO3: Able to a	raw the projections of lines inclined to bo	th the plan	ies and it	s traces.
Edition – 2015.	ng Drawing", by Agarwal & Agarwal, Ta	ata McGra	w Hill Pr	ıblishers, 2 <sup>n</sup>
14	Projection of plane (negation to one plane		10/2010	
17	Projection of plane (parallel to one plane a perpendicular to other plane)	ind   31/	10/2019	
15	Projection of plane (parallel to one plane a	md 01/	11/2010	Lecture
13	inclined to other plane)	ind 017	11/2019	interspersed
. 16	Projection of plane (inclined to both plane	). 07/	11/2019	with
17	Projection of plane (inclined to both plane		11/2019	discussions
	ROJECTIONS OF SOLIDS	)   00/	11/2019	
CO4. Able to 10	THE THE CONTRACT DIGNE AND DESCRIPTIONS OF THE PARTY AND T	projections	of the n	
to both the plan	lentify the different plans and draw the		or the p	lane inclined
to both the plan	les.			
to both the plan TB: "Engineeri	nes.  ng Drawing", by Agarwal & Agarwal, Ta			
to both the plan	les.	ata McGra		

19	Prisms, Pyramids	15/11/2019	interspersed
20.	Cones with the axis inclined to both the planes		with
	Cylinders with the axis inclined to both the planes	22/11/2019	discussions

UNIT-V Conversion of isometric views to orthographic views

CO5: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd Edition - 2015.

22	Isometric views to orthographic views	28/11/2019	
23	Orthographic views to isometric views.	29/11/2019	Lecture
24	Computer Aided Design	06/12/2019	interspersed
25	Drawing practice using Auto CAD	12/12/2019	with
26	Creating 2D&3D drawings	13/12/2019	discussions

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Date:

to both the planes.

25元分元是45mm开始通过45mm的成为40元,在2017年3日、元立二7年3年4月4日日中日1948年7年30年

# TENTATIVELESSON PLAN

	Date: 26/08/2019	Course code:	: 01 to 03
Section : Sec I  Revision No : 00	Prepared By: R. KIRAN KUMAR	Approved By : F	
Tools: BLACK BO			
No. of Periods			Mode of Delivery
CO1:Become famil	CTION TO ENGG. MECHANICS, SYSTEM iar with a basic concepts of force and friction G MECHANICS", S.S BHAVIKATTI, I *Edition,	, direction and	i its
	NIT - 1 Introduction	26/08/2019	
2 La	usic terminologies was of mechanics was of mechanics was of mechanics	28/08/2019	
3 Sv	stems of Forces	30/08/2019	
	sultant of Forces, Parallelogram law	30/08/2019	
	rallelogram law problems	31/08/2019	1
6 Re	solution method- concurrent forces, Problems	4/09/2019	
	oblems	5/09/2019	
	oblems	6/09/2019	
	oblems	6/09/2019	Lecture
	oment of force, couple	7/09/2019	intersperse
	oment of force, couple, Varignon's theorem	9/09/2019	with
	solution of force to a force and couple	12/09/2019	discussion
	rallel forces and problems	13/09/2019	
	oblems	13/09/2019	
	sultant of concurrent system in space	16/09/2019	
	sultant of concurrent system in space-problems	16/09/2019	
Fri 17 con	ction introduction, coefficient of friction, ulomb's laws of dry friction, cone of friction, ale of friction	18/09/2019	
	blems	19/09/2019	
	oblems, wedge friction problem	20/09/2019	
	edge friction problem	20/09/2019	
	ider problem .	21/09/2019	
	ider problem	21/09/2019	·
22 124	ider problem	23/09/2019	

UNIT-II	EQUILIBRIUM OF SYSTEMS OF FORCES	oblems using a	raphical
CO2: Gain	knowledge about free body diagrams. Solution to pr	onicina name e	
metho	ods and law of triangle of forces. EERING MECHANICS", S.S. BHAVIKATTI, 1st Edition	n. New age publ	leations, 2012
	Equilibrium of system of forces	25/09/2019	
24	Equilibrium of system of forces problems	26/09/2019	1
25	Equilibrium of system of forces problems	27/09/2019	Lecture
26	Problems	27/09/2019	intersperse
27	Problems- In space	28/09/2019	with
28	Problems – Beams	30/09/2019	discussion
29	Problems – Beams	10/10/2019	Huiseassien
30	Graphical method of analysis	10/10/2019	
UNIT-III C	ENTROID, CENTRE OF GRAVITY		
CO3:Becam	e familiar with the concepts of centre of gravity.		
B:"ENGINE	ERING MECHANICS", S.S BHAVIKATTI, 1st Edition,	New age public	ations, 2012.
31	UNIT - 3 Centroids of simple figures	11/10/2019	
32	- Problems	11/10/2019	
33	Problems	14/10/2019	
34	Problems	16/10/2019	
35	Centroids of Composite Figures	17/10/2019	T
	Problems	30/10/2019	Lecture
36		1/11/2019	intersperse
37	Problems	1/11/2019	with
38	Problems	6/11/2019	discussion
39	Problems	Secretary designations	
40	Pappus theorem - theorem 1	7/11/2019	
	Pappus theorem – theorem 2		
41	Centre of gravity of simple body, right circular	11/11/2019	
	cone	OF THE POT	l .
CO4:Gain ki	AREA MOMENTS OF INERTIA, MASS MOMENT nowledge about moment of inertia and polar momen hods and their applications. ERING MECHANICS", S.S. BHAVIKATTI, 1st Edition	it of inertia inc	iuaing
42	UNIT - 4 Area Moment of Inertia Definition, Polar Moment of Inertia, Transfer Theorems	11/11/2019	
43	Moments of Inertia of Composite Figures- problems	13/11/2019	
44	Moments of Inertia of Composite Figures- problems	14/11/2019	Lecture
45	MI- problems	16/11/2019	intersperse
46	MI- problems	18/11/2019	with
47	Mass moment of inertia of basic bodies – rod, rectangular plate	20/11/2019	discussion
48	Mass moment of inertia of basic bodies – circular plate, solid cone	21/11/2019	
49	Mass moment of inertia of basic bodies – solid sphere	22/11/2019	

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UNIT-V KINEMATICS, KINETICS, WORK – ENERGY METHOD, IMPULSE CO5:Become familiar with motion in straight line and in curvilinear paths, its velocity and acceleration computation and methods of representing plane motion, work, energy and particle motion

50	ERING MECHANICS", S.S BHAVIKATTI, 1st Ed UNIT - 5 Kinematics, Introductions	22/11/2019	
51	Rectilinear and curvilinear motions	23/11/2019	
52	Velocity and acceleration	25/11/2019	
53	Motion of rigid body	27/11/2019	
54	Analysis in plane motion	28/11/2019	
55	problems	29/11/2019	
56	problems	29/11/2019	
57	problems	30/11/2019	
58	problems	2/12/2019	
59	problems	4/12/2019	
60	Kinetics	5/12/2019	Lecture
61	D'Alembert's principle	6/12/2019	interspersed
62	Kinetics - Analysis of body in translation	6/12/2019	with
63	Analysis of body in rotation	7/12/2019	discussions
64	Work, energy and power	9/12/2019	
65	Principle of conservation of energy	11/12/2019	
66	problems	12/12/2019	
67	problems	13/12/2019	
68	Principle of work energy.	13/12/2019	
69	Principle of Impulse-momentum	18/12/2019	
70	problems	19/12/2019	
71	problems	20/12/2019	•
72	Revision	20/12/2019	
73	Revision	21/12/2019	

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Date: 29/2/2020

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### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### COURSE STRUCTURE-R19

#### I Year - I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
**********		Total Credits	16	0	12	19

#### I Year - II SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1212	Fundamentals of Computers	3	0	0	3
5	ES1217	Electrical Circuit Analysis - I	3	0	0	3
6	ES1218.	Electrical Engineering Workshop	0	.0	3	1.5
7	BS1205	Applied Physics Lab	0	0	3	1.5
8	HS1203	Communication Skills Lab	0	1	2	2
9	PR1201	Engineering Exploration Project	0	0	2	1
		Total Credits	15	1	10	21

# TON DE LESSON PLAN: R19HS1101

Section : EI	EE Date: 26-08-2019	Page N	o: 01 of 03
Revision No	: 00 Prepared By: Mr. Yellamanda Vusa	Approv	ved By: HOD
Tools: Black			
No. of Period	Is TOPIC	Date	Mode of Delivery
CO1: Facilita English spok	Prawer full of happiness, Deliverance by Premchar ate effective listening skills for better comprehens ien by native speakers h English, Maruthi Publications, —The Individual So	ion of academic	
1	A Drawer full of happiness	26-8-19	
2	Listening: Short Audio Texts	28-8-19	
3	Speaking: Asking and answering questions	30-8-19	Lecture
4	Reading: Skimming and Scanning	3-9-19	interspersed with
5	Reading for Writing: Paragraph writing	3-9-19	discussions
6	Vocabulary: Technical Vocabulary	4-9-19	
7	Grammar: Content words and function words	4-9-19	
8	The Deliverance : Munshi Prem Chand	5-9-19	
9	Long Answers	6-9-19	
10	Short Answers	9-9-19	1
CO2: Focus and authenti	ru's letter to his daughter Indira on her birthday, Bos on appropriate reading strategies for comprehens ic materials English, Maruthi Publications, —The Individual Societ	sion of various	academic texts
12	Nehru's letter to his daughter Indira on her birthday	11-9-19	
13	Listening: Answering a series of questions	12-9-19	
14	Speaking: Discussion in pairs	13-9-19	
15	Reading: Identifying sequence of ideas	16-9-19	Lecture

	Reading for Writing: Summarizing		discussion
17	Vocabulary: Technical vocabulary	19-9-19	
18	Grammar: Use of articles	20-9-19	
19	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	
21	Short Answers	25-9-19	

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications 27-9-19 Stephen Hawking-Positivity 'Benchmark Listening: Listening for global comprehension 30-9-19 25 Lecture interspersed Speaking: Discussing specific topics in pairs 10-10-19 26 with discussions Reading: Reading a text in detail 14-10-19 27 Reading for Writing: Summarizing 15-10-19 28 16-10-19 Vocabulary: Technical vocabulary 29 Grammar: Verbs - tenses; subject-verb agreement 4-11-19 30 31 Shakespeare's Sister by Virginia Woolf 7-11-19 Long Answers 8-11-19 32

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications. —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture interspersed
35	Speaking: Role plays for practice of conversational	18-11-19	with

Committee of the second	English	The state of the s	discussion
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

41	Stay Hungry-Stay foolish	4-12-19	
			Lecture
42	Listening Identifying key terms	5-12-19	interspersed
43	Speaking: Formal oral presentations	6-12-19	discussions
44	Reading: Reading for comprehension	9-12-19	
45	Reading for Writing: Writing academic proposals	12-12-19	
46	Vocabulary: Technical vocabulary	13-12-19	
47	Grammar: Editing short texts	16-12-19	

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PRINCIPAL SRK institute of Technology ENIKEPADU, VIJAYAWADA-521 108

# TENTATIVE LESSON PLAN: R19BS1101

Course Title: M				
Section : EEE		Date: 26-08-2019		: 01 of 02
Revision No: 0		Prepared By: S.KALPANA	Approve	ed By: HOD
Tools: Black bo	ard			
No. of Periods		TOPIC	Date	Mode of
				Delivery
IDITE 4 CECT	ENGE	C CERTIC AND MEANINATE EXTERN	T3.50	
		S, SERIES AND MEAN VALUE THEOR	EMS	
		e theorems to real life problems		
1B: Engineeri		hematics", Dr. T.K.V.Iyengar; S.Chand p JENCES AND SERIES:	ublications	
1		ergence and Divergence		
2	Ratio		+	
3		arison test	1	
4		al test	From:	
5			26-08-2019	Lecture
6	Cauchy 's root test Alternating series			intersperse
7		itz 's rule	To:	with
8		Value Theorems:	14-09-2019	
o		's Theorem	2.052015	aiboubbion
9		nge 's mean value theorem		
10		y 's mean value theorem	-	
11		r 's and Maclaurin 's theorems with	+	
11	remain			
UNIT-II DIF		TIAL EQUATIONS OF FIRST ORDER AN	D EIDET DEEC	ND FEE
		ntial equations related to various engineer		REE
		-	•	
		ematics", Dr. T.K.V.Iyengar; S.Chand pu	blications	
12		uction: Differential Equations of First order		
13	first de		1	
		Equations – Conditions of Exactness		
14		ons reducible to Exact	From:	
15		Exact Differential Equations	16-09-2019	
16		Differential Equations of first order	10-09-2019	Lecture
17		uli Equation	To:	
18		ons reducible to linear	10.	interspersed with
19		gonal Trajectories - Cartesian	05-10-2019	discussions
20		gonal Trajectories - Polar		discussions
21	Newto	n's law of cooling		
22	Natura	l growth or decay		
23 Electrical Circuits		cal Circuits		

UNIT-III : L	INEAR DIFFERENTIAL EQUATIONS OF H	ICHER ORDER	
	he differential equations related to various engi		
	ering Mathematics", Dr. T.K.V.Iyengar; S.Cha		
24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x)$ , $Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	&	with
29	Q(x) = xV(x)	From: 28-10-2019	discussions
30	$Q(x) = x^n \sin ax \ or \ \cos ax$	To:	
31	Method of variation of parameters		
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV	PARTIAL DIFFERENTIATION		
CO4: Familin	rize with functions of several variables which is	useful in optimiza	tion
TB: Enginee	ring Mathematics", Dr. T.K.V.Iyengar; S.Char	nd publications	
33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	From:	
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series		interspersed
37	Jacobians, formulae	To:	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
UNIT-V: MUL	TIPLE INTEGRALS		
CO5: Apply d	ouble integration techniques in evaluating area	as bounded by regi	on
	ring Mathematics", Dr. T.K.V.Iyengar; S.Chan		
.41	Introduction	From:	
42	Double integrals	02-12-2019.	т.,
43	Triple integrals	To:	Lecture interspersed
44	Change of order of integration		with
45	Change of variable	21-12-2019	discussions
46	Applications: Finding areas		
47	Finding volumes		

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## SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)
Department of Science and Humanities

TENTATIVE LESSON PLAN: APPLIED CHEMISTRY (BS1106)

Course Title: Section : EE			1-		
Revision No:		Date: 26-8-2019		No: 1-3	
Revision 140 :00		Prepared By : K.P.T.VIJAYA BHASKAR	Appr	Approved By: HOD	
Tools: Black	board a	nd chalk.			
No. of		TOPIC	Date	Mode of	
Periods: 75				Delivery	
	Unit -	II :ELECTROCHEMICAL CELLS AND	CORROSIO		
O2: Outline	the basic	es for the construction of electrochemical	ells, batterie	s and	
fuelcells. Unde	erstand	the mechanism of corrosion and how it ca	an he preven	ted	
(Engineering C	hemistr	y by Jain and Jain; Dhanpat Rai Publicating	Co )	icu.	
1		Unit -II :ELECTROCHEMICAL CELLS	26-8-2019		
2	Single	electrode potentia.	26-8-2019		
3		ochemical series and uses of series	27-8-2019		
4		ard hydrogen electrode, calomel electrode	28-8-2019	-	
5		ntration cell-	30-8-2019	+	
6	constr	uction of glass electrode	3-9-2019		
7		ies: Dry cell, Ni-Cd cells,	4-9-2019	-	
8	Ni Met	tal hydride cells, Li ion battery, zinc air cells	5-9-2019	Lecture	
9		ells: H2-O2, CH3OH-O2,	6-9-2019	interspersed	
10	phospi	noric acid, molten carbonate	9-9-2019	with	
11	Corros	sion:-Definition-theories of corrosion	9-9-2019	discussions	
12		ic corrosion, differential aeration corrosion,	9-9-2019	$\forall$	
	stress	corrosion,	2019		
13	waterli series	ne corrosion-passivity of metals-galvanic	11-9-2019		
14	Factors	influencing rate of corrosion-corrosion	13-9-2019		
15	Protect	tive coatings: Surface preparation, cathodic	16-9-2019		
16	And	odic coatings, electroplating, electroless plating (nickel).	17-9-2019-		
17	Paints (	constituents, functions, special paints).	18-9-2019		
		Unit - I: POLYMER TECHNOLO			
1: Importanc	e of usas	ge of plastics in household appliances and	compositor	(EDD) :	
rospace and a	utomotiv	ve industries.			
(E	ngineeri	ng Chemistry by Jain and Jain; Dhanpat Ra	i Publicating	(Co.)	
1	Polyme: polyme	risation:- Introduction-methods of	23-9-2019		
2			23-9-2019	+	



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3	Plastics: Compounding-fabrication	24-9-2019	
4	preparation, properties and applications of PVC,	25-9-2019	
5	polycarbonates and Bakelite-mention some examples of plastic.	26-9-2019	Lecture
6	Materials used in electronic gadgets, recycling of e-plastic waste	26-9-2019	interspersed with discussions
7	Elastomers:- Natural rubber-drawbacks- vulcanization	26-9-2019	
. 8	preparation, properties and applications of synthetic rubbers	27-9-2019	
9	(Buna S, thiokol and polyurethanes	27-9-2019	
10	Composite materials: Fiber reinforced plastics	28-9-2019	
	Conducting polymers-	30-9-2019	
12	Biodegradable polymers biopolymers	30-9-2019	
13	Biomedical polymers	11-10-2019	

### UNIT III: MATERIAL CHEMISTRY

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquidcrystals.

(	Engineering Chemistry by Jain and Jain; Dhanpat F	Rai Publicating Co.)
	Part I: Non-elemental semiconducting materials	

1	Part I: Non-elemental semiconducting materials	14 10 2010	, со.,
2	Semiconductor devices (p-n junction diode as rectifier, junction transistor	14-10-2019 15-10-2019	
3	Insulators & magnetic materials: electrical insulators	16-10-2019	
4	Ferro and ferri magnetism-Hall effect and its applications.	17-10-2019	
5	Part II: Nano materials:- Introduction-sol-gel method-	18-10-2019	Lecture interspersed
6	characterization by BET, SEM and TEM methods	24-10-2019	with
7	Applications of graphene-carbon nanotubes and fullerenes:	5-11-2019	discussions
8	Types, preparation and applications Liquid crystals	6-11-2019	
9	Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	7-11-2019	

# UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

C04: Outline the basics of computational chemistry and molecular switches.

(Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

Computational chemistry: Introduction, Ab Initio 10-11-2019
studies Molecular switches



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11-2019	
11-2019	
11-2019	Lecture
11-2019	interspersed
11-2019	with discussions
11-2019	discussions
1-2019	
THE PROPERTY OF THE PROPERTY OF THE PARTY OF	1-2019

# UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES

CO5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced.

(Engineering Chemistry by Jain and Jain: Dhannat Rai Publicating Co.)

1	Chighleening Chemistry by Jain and Jain; Dhanpat Rai I	Publicating Co.)	
1.	Part A: SPECTROSCOPIC TECHNIQUES Electromagnetic spectrum-UV	29-11-2019	
2.	laws of absorption, instrumentation,	2-12-2019	
3	Theory of electronic spectroscopy, Frank-condon principle	3-12-2019	Lecture
4.	chromophores and auxochromes, intensity shifts, applications	4-12-2019	interspersed with
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	5-12-2019	discussions
6.	Magnetic resonance imaging and CT scan (procedure & applications).	6-12-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	9-12-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	10-12-2019	
9.	hydropower, geothermal power,	11-12-2019 12-12-2019	
10.	Tidal and wave power	17-12-2019	

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# TENTATIVE LESSON PLAN: R19ES1101

Course Title: PROC	GRAMMING FOR PROBLEM SOLVING US	SING C (ES1101)
Section : Sec A	Date: 26/8/2019	<b>Page No</b> : 01 of 03
	Prepared By : CH SIVA RAJESH	Approved By : HOD
Revision No: 00	Trepared by . Cli Still dis 2020	

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I CO1: To	Introduction to C language blearn about the computer systems, computing enviround Structure of a C Program.  Output  Output  Description:		
1	Computer Systems	27-8-19	
2	Computing Environments	28-8-19	
3	Computer languages	28-8-19	
4	Creating and running Programs	29-8-19	Lecture
5	Computer Numbering System	30-8-19	Interspersed
6	Storing Integers	31-8-19	With
7	Storing Real Numbers	3-9-19	
8	C Programs, Identifiers	4-9-19	discussions
9	Types, Variable	4-9-19	
10	Constants, Input/output	5-9-19	
11	Programming Examples	6-9-19	
12	Scope, Storage Classes and Type Qualifiers	7-9-19	
13	Expressions Precedence and Associativity	11-9-19	
14	Side Effects, Evaluating Expressions	11-9-19	
15	Type Conversion Statements	12-9-19	
16	Simple Programs	13-9-19	
17	Command Line Arguments	17-9-19	
18	Tutorial	17-9-19	
UNIT-I		atements and repetition	n in C.

CO2: To gain knowledge of the operators, selection, control statements and repetition in C. TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

19	Exact Size Integer Types	18-9-19	
20	Logical Bitwise Operators	18-9-19	
21	Shift Operators	19-9-19	
22	Logical Data and Operators	20-9-19	Lecture
23	Two Way Selection	21-9-19	interspersed
24	Multiway Selection	24-9-19	

23	World Standard Turictions	23-9-19	with
26	Concept of Loop	25-9-19	discussions
27	Pretest and Post-test Loops	26-9-19	
28	Initialization and Updating .	27-9-19	1
29	Event and Counter Controlled Loops	28-9-19	
30	Loops in C	1-10-19	
31	Other Statements Related to Looping	3-10-19	
32	Looping Applications	4-10-19	
33	Programming Example The Calculator Program	5-10-19	
35	Tutorial	5-10-19	
No. of	TOPIC	Date	Mode of
Periods			Delivery
UNIT-II	, , , , , , , , , , , , , , , , , , , ,		
CO3: To	learn about the design concepts of arrays, strings, enumerat	ted structure and	union types
To learn	about their usage.		union types.
TB1: Pro	ogramming for Problem Solving, Behrouz A. Forouzan, Rich	ard F.Gilberg, C	ENGAGE
36	Concepts, Using Array in C	15-10-19	1
37	Array Application	16-10-19	1
38	Two Dimensional Arrays	16-10-19	
39	Multidimensional Arrays	17-10-19	
	Programming Example – Calculate Averages	18-10-19	1
40			
40	String Concepts, C String	19-10-19	
	String Concepts, C String String Input / Output Functions		
41		29-10-19	-
41 42	String Input / Output Functions	29-10-19 30-10-19	. 
41 42 43	String Input / Output Functions Arrays of Strings	29-10-19 30-10-19 30-10-19	
41 42 43 44	String Input / Output Functions Arrays of Strings String Manipulation Functions	29-10-19 30-10-19 30-10-19 31-10-19	Lecture
41 42 43 44 45	String Input / Output Functions Arrays of Strings String Manipulation Functions String/ Data Conversion	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19	interspersed
41 42 43 44 45 46	String Input / Output Functions Arrays of Strings String Manipulation Functions String/ Data Conversion A Programming Example – Morse Code	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19 2-11-19	
41 42 43 44 45 46 47	String Input / Output Functions Arrays of Strings String Manipulation Functions String/ Data Conversion A Programming Example – Morse Code The Type Definition (Type def)	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19 2-11-19 5-11-19	interspersed with
41 42 43 44 45 46 47 48	String Input / Output Functions  Arrays of Strings  String Manipulation Functions  String/ Data Conversion  A Programming Example – Morse Code  The Type Definition (Type def)  Enumerated Types	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19 2-11-19 5-11-19 6-11-19	interspersed
41 42 43 44 45 46 47 48 49	String Input / Output Functions Arrays of Strings String Manipulation Functions String/ Data Conversion A Programming Example – Morse Code The Type Definition (Type def) Enumerated Types Structure	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19 2-11-19 5-11-19 6-11-19	interspersed with
41 42 43 44 45 46 47 48 49 50	String Input / Output Functions  Arrays of Strings  String Manipulation Functions  String/ Data Conversion  A Programming Example – Morse Code  The Type Definition (Type def)  Enumerated Types  Structure  Unions	29-10-19 30-10-19 30-10-19 31-10-19 1-11-19 2-11-19 5-11-19 6-11-19	interspersed with

25-9-19

with

More Standard Functions

TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

No. of Periods	TOPIC	Date	Mode of Delivery
53	Introduction	8-11-19	
54	Pointers to pointers	12-11-19	
55	Compatibility, L value and R value	13-11-19	
56	Arrays, and Pointers	13-11-19	

57	Pointer Arithmetic and Arrays	14-11-19	Lecture
58	Memory Allocation Function	15-11-19	interspersed
59	Array of Pointers	16-11-19	with
60	Programming Application	19-11-19	discussions
61	Processor Commands	20-11-19	- discussions
62	Tutorial	20-11-19	
UNIT-V	V Files and Functions	20-11-19	
CO5: T	o assimilate about File I/O and significance of function	10	
TB1: P	rogramming for Problem Solving, Behrouz A. Forouza	n Dichard E Cilbana C	ENG LOT
63	Files, Streams	21-11-19	ENGAGE
64	Standard Library Input / Output Functions	22-11-19	
65	Formatting Input / Output Functions	23-11-19	-
66	Character Input / Output Functions	26-11-19	+
67	Text versus Binary Streams	27-11-19	+
68	Functions for Files	27-11-19	<del>-</del>
69	Converting File Type	28-11-19	
70	Designing, Structured Programs	29-11-19	Lecture
71	Function in C	30-11-19	interspersed
72	User Defined Functions	3-12-19	with
73	Inter-Function Communication	4-12-19	discussions
74	Standard Functions	4-12-19	+
75	Passing Array to Functions	5-12-19	-
76	Passing Pointers to Functions	10-12-19	
77	Recursion	12-12-19	-
78	Passing an Array to Function	17-12-19	
79	Tutorial	17-12-19	

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# TENTATIVE LESSON PLAN

		urse Code: ES	Seed of the seed o
Section : I	Date: 26/08/2019		: 01 of 02
Revision No : 0		Approve	d By: HOD
Tools: Black be			
No. of Periods	TOPIC	Date	Mode of
UNIT-I IN	TRODUCTION TO DRAWING		Delivery
	raw the polygons, curves.	CI	
	ing Drawing", by N.D. Butt &V.M. Panchal,	Chariot Publis	shing House
Anand. 49 <sup>th</sup> Ed	Introduction	30/08/2019	Ι
2	Lettering and Dimensioning	05/09/2019	
3	Geometrical constructions	06/09/2019	
4		12/09/2019	T
	Parabola, Ellipse and Hyperbola		Lecture
	Polygons	13/09/2019	interspersed
6	Cycloids	19/09/2019	with discussions
7	Involutes	20/09/2019	discussions
8	Vernier scales	26/09/2019	1
9 UNIT-II II	Plain scales, diagonal scale NTRODUCTION TO ORTHOGRAPHIC PRO	27/09/2019	
TB: "Engineer		•	ublishers,
		McGraw Hill P	ublishers,
TB: "Engineen 2 <sup>nd</sup> Edition – 20	015.	•	ublishers,
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10	Projections of points in various quadrants	10/10/2019	ublishers,
TB: "Engineen 2 <sup>nd</sup> Edition – 20	Projections of points in various quadrants Projections of lines, lines parallel either of the	•	Lecture
TB: "Enginee: 2 <sup>nd</sup> Edition – 20 10 11	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes	10/10/2019	Lecture interspersed with
TB: "Enginee"  2 <sup>nd</sup> Edition – 20  10  11	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths,	10/10/2019 11/10/2019 17/10/2019	Lecture interspersed with
TB: "Enginee"  2 <sup>nd</sup> Edition – 20  10  11  12  13	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces.	10/10/2019	Lecture interspersed
TB: "Engineer 2nd Edition – 2nd 10 11 12 13 UNIT-III 1	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES	10/10/2019 11/10/2019 17/10/2019 18/10/2019	Lecture interspersed with discussions
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10 11 12 13 UNIT-III I CO3: Able to c	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in	Lecture interspersed with discussions
TB: "Engineer  2 <sup>nd</sup> Edition – 2 <sup>ld</sup> 10  11  12  13  UNIT-III I  CO3: Able to d  TB: "Engineer	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the ling Drawing", by Agarwal & Agarwal, Tata Marketing Drawing, by Agarwal & Agarwal, Tata Marketing Projections of lines inclined to both the lines of lines of lines inclined to both the lines of lines of lines inclined to both the lines of li	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in	Lecture interspersed with discussions
TB: "Engineer  2 <sup>nd</sup> Edition – 20  10  11  12  13  UNIT-III  CO3: Able to co  FB: "Engineer  Edition – 2015	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the ling Drawing", by Agarwal & Agarwal, Tata Management of the lines inclined to both the lines of l	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and is	Lecture interspersed with discussions
TB: "Engineer  2 <sup>nd</sup> Edition – 2 <sup>ld</sup> 10  11  12  13  UNIT-III I  CO3: Able to d  TB: "Engineer	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both thing Drawing", by Agarwal & Agarwal, Tata Management of Projection of plane (parallel to one plane and	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in	Lecture interspersed with discussions ts traces.
TB: "Engineer 2nd Edition – 20 10 11 12 13 UNIT-III I CO3: Able to co FB: "Engineer Edition – 2015 14	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the ling Drawing", by Agarwal & Agarwal, Tata Management of Projection of plane (parallel to one plane and perpendicular to other plane)	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in AcGraw Hill P	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture
TB: "Engineer  2 <sup>nd</sup> Edition – 20  10  11  12  13  UNIT-III  CO3: Able to co  FB: "Engineer  Edition – 2015	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the ling Drawing", by Agarwal & Agarwal, Tata March Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and perpendicular to other plane)	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and is	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed
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TB: "Engineer 2 <sup>nd</sup> Edition – 2 <sup>l</sup> 10 11  12 13  UNIT-III CO3: Able to of IB: "Engineeri Edition – 2015 14  15  16	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces.  PROJECTIONS OF PLANES  Traw the projections of lines inclined to both the reference plane, The projection of plane (parallel to one plane and perpendicular to other plane)  Projection of plane (parallel to one plane and inclined to other plane)  Projection of plane (inclined to both plane)	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in AcGraw Hill Position 11/2019 01/11/2019	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>nd</sup> Lecture interspersed
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10 11  12 13  UNIT-III I CO3: Able to co FB: "Engineer Edition – 2015 14  15  16 17	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Traw the projections of lines inclined to both the reference plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane)	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in AcGraw Hill Position 11/2019 01/11/2019	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with
TB: "Engineer 2 <sup>nd</sup> Edition – 2 <sup>ld</sup> 10 11  12 13  UNIT-III CO3: Able to d IB: "Engineer Edition – 2015 14  15  16 17  UNIT-IV P	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces.  PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the reference plane, by Agarwal & Agarwal, Tata Market Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in AcGraw Hill P	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions
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TB: "Engineer  2 <sup>nd</sup> Edition – 20  10  11  12  13  UNIT-III I  CO3: Able to co  IB: "Engineer  Edition – 2015  14  15  16  17  UNIT-IV P  CO4: Able to it to both the pla	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Iraw the projections of lines inclined to both the reference plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS dentify the different plans and draw the projection of plane to plane and draw the projection of plane to plane and draw the projection of plane to plane and draw the projection of plane to both plane)	10/10/2019 11/10/2019 17/10/2019 18/10/2019 ne planes and in AcGraw Hill Position 11/2019 01/11/2019 07/11/2019 08/11/2019 ections of the position 11/2019	Lecture interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions the discussion that discussions the discussion that discussions the discussion that d
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19	Prisms, Pyramids		
- 17		15/11/2019	interspersed
20	Cones with the axis inclined to both the planes	21/11/2019	with
21	Cylinders with the axis inclined to both the	22/11/2019	discussions
LIMITE VI C	planes		

UNIT-V Conversion of isometric views to orthographic views

CO5: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition - 2015.

22	Isometric views to orthographic views	20/11/2010	
23	Orthographic views to isometric views.	28/11/2019	Lecture
24	Computer Aided Design	29/11/2019	interspersed
25		06/12/2019	with
	Drawing practice using Auto CAD	12/12/2019	
26	Creating 2D&3D drawings	13/12/2019	discussions

Signature of Faculty
Date: 26 8 19

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# TENTATIVE LESSON PLAN: R19BS1101

Course Title: M	IATHEMATICS - 1		
Section : MEC			:01 of 02
<b>Revision No</b> : 0	Prepared By : S.SUMAN	Approve	d By: HOD
Tools: Black bo	ard		
No. of Periods	TOPIC	Date	Mode of Delivery
CO1:Utilize me TB:" Engineeri	ENCES, SERIES AND MEAN VALUE THEOR an value theorems to real life problems ng Mathematics", Dr. T.K.V.Iyengar; S.Chand po		
1	SEQUENCES AND SERIES:		
	Convergence and Divergence		
2	Ratio test		
3	Comparison test		
4	Integral test	From:	
5	Cauchy 's root test	26-08-2019	Lecture
6	Alternating series		interspersed
7	Leibnitz 's rule	To:	with
8	Mean Value Theorems:	14-09-2019	discussions
	Rolle 's Theorem		
9	Lagrange 's mean value theorem .		
10	Cauchy 's mean value theorem		
11	Taylor 's and Maclaurin 's theorems with		
	remainders		
	FERENTIAL EQUATIONS OF FIRST ORDER ANI		REE
CO2: Solve the	differential equations related to various engineer	ing fields	
TB:" Engineerin	g Mathematics", Dr. T.K.V.Iyengar; S.Chand pu	blications	
12	Introduction: Differential Equations of First order first degree		
13	Exact Equations – Conditions of Exactness		
14	Equations reducible to Exact		
15	Non Exact Differential Equations	From:	
16	Linear Differential Equations of first order	16-09-2019	
17	Bernouli Equation	_	Lecture
18	Equations reducible to linear	To:	interspersed
19	Orthogonal Trajectories - Cartesian	05-10-2019	with
20	Orthogonal Trajectories - Polar	05 10-2017	discussions
21	Newton's law of cooling		
22	Natural growth or decay		
23	Electrical Circuits		

TB: Engin	the differential equations related to various engering Mathematics", Dr. T.K.V.Iyengar; S.Cha	and publications	
24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x), Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	intersperse
28	$Q(x) = e^{ax}V(x)$	&	with
29 30	Q(x) = xV(x)	From: 28-10-2019	discussions
31	$Q(x) = x^n \sin ax \ or \cos ax$	To:	
32	Method of variation of parameters		
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV	PARTIAL DIFFERENTIATION		
CO4: Famil	rize with functions of several variables which is	useful in ontimiza	tion
IB:" Engine	ering Mathematics", Dr. T.K.V.Iyengar; S.Chai	id publications	LIOII
33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	Г	
35	Taylor's mean value theorems	From: 11-11-2019	T .
36	Maclaurin's series		Lecture interspersed
37	Jacobians, formulae	To:	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
JNIT-V: MU	LTIPLE INTEGRALS		
CO5: Apply	double integration techniques in evaluating area ring Mathematics", Dr. T.K.V.Iyengar; S.Chan	s bounded by regi d publications	on
D: Engine	Introduction	From:	
41	micoduction		
41 42	Double integrals	02-12-2019.	
41		02-12-2019.	Lecture
41 42	Double integrals		interspersed
41 42 43	Double integrals  Triple integrals	02-12-2019.	
41 42 43 44	Double integrals  Triple integrals  Change of order of integration	02-12-2019. To:	interspersed with

8.8.4. Signature of Faculty

Signature of HOD

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### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

### DEPARTMENT OF MECHANICAL ENGINEERING

#### I Year - I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	BS1101	Mathematics – I	3	0	0	3
2	BS1102	Mathematics – II	3	0	0	3
3	BS1108	Engineering Physics	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1109	Engineering Physics Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1104	Constitution of India	2	.0	0	0
		Total Credits	15	0	12	19

#### I Year - II SEMESTER

SI. No	Course Code	Subjects	L	T	P	Credits
1	HS1201	English	3	0	0	3
2	BS1210	Engineering Chemistry	3	0	0	3
3	ES1204	Engineering Mechanics	3	0	0	3
4 .	ES1206	Basic Electrical & Electronics Engineering .	3	0	0	3
5	ES1207	Computer Aided Engineering Drawing	1	0	3	2.5
6	HS1203	Communication Skills Lab	0	0	2	1
7	BS1211	Engineering Chemistry Lab	0	0	2	1.5
8	ES1208	Basic Electrical & Electronics Engineering Lab	0	0	3	1.5
9	ES1219	Workshop Practice Lab	0	0	3	1.5
10	PR1201	Engineering Exploration Project	0	0	2	- 1
		Total Credits	13	0	15	21

# TENTATIVE LESSON PLAN: R19BS1202

Section : MECHANIO	TAT	Date: 26-08-2019	Page No	o: 01 of 02
Revision No		Prepared By: K.BASAVARAJU	Approv	ed By : HOD
Tools: Black	board			
No. of Period	ls	TOPIC	Date	Mode of Delivery
VECTORS CO1:solve sy Seidel (L3)	stem of lin	TEM OF LINEAR EQUATIONS, EIGInear algebraic equations using Gauss thematics", Dr. T.K.V.Iyengar; S.Cl	elimination, Gauss Jo	
1		luction to matrices	· · · · · · · · · · · · · · · · · · ·	
2	Rank	of matrix- definition, properties		
3	Proble	ems on rank by Echelon form		
4	Rank	by normal form		
5	PAQ	form problems .		
6	Homo	geneous system AX=0		
7	Non F	Iomogeneous system AX=B	From	T
8	Proble	ems on rank method	From 26-08-2019	Lecture interspersed
9	Gauss	Elimination method	To: 14-09-	with discussions
10	Eigen	values – definition	2019	
11	Proper	rties of Eigen values		
12	Proper	rties of Eigen values		
12	Proble	ems on findingeigen values, vectors		
13				

applications (L6)

TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

. 15	Caley Hamilton theorem, verification, problems	er pro- 1. Transport, to the con-	
16	Finding inverse and power of a matrix by caley Hamilton theorem		
17	Diagonalization – problems		
18	Quadratic forms – definition, examples	From: 16-09-2019	Lecture interspersed
19	Matrix form of a quadratic form	To:	with discussions
20	Canonical form of a quadratic form	05-10-2019	
21	Methods of reducing a QF in to canonical form		
22	Orthogonal reduction method		
23	Congruent operations method		
24	Lagrange's method		
25	Problems on finding nature of a QF		

#### UNIT-III: UNIT - III: ITERATIVE METHODS:

CO3:Avaluate approximating the roots of polynomial and transcendental equations by different algorithms (L5)

TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

26	Introduction		
27	Method – 1: Bisection method		
28	Problems		
30	Method – 2: Regulafalsi method	From:	
31	Problems	07-10-2019	
33	Method – 3: Iteration method	To:	
34	Problems	19-10-2019	Lecture
35	Method – 4: Newton Raphson method	_&	interspersed
36	Problems	From:	with
37	Newton Raphson method simultaneous equations	28-10-2019	discussions
38	Gauss Jacobi Method	To:	
39	Gauss Seidal Method	09-11-2019	
40	problems		

#### UNIT - IV: INTERPOLATION

 ${
m CO4:}$  Apply Newton's forward & backward interpolation and Lagrange's formulae for equal and unequal intervals (L3)

TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

41	Introduction: Forward and Backward Differences		The state of the s
42	Newton's Forward interpolation formula		
43	Problems		
44	Newton's Backward interpolation formula		
45	Problems	From:	Lecture
46	Gauss Forward interpolation formula – Problems	11-11-2019	interspersed with
47	Problems	1	discussions
48	Gauss Backward interpolation formula – Problems	To: 30-11-2019	
49	Problems	30-11-2019	
50	Lagranges interpolation formula – Problems		
51	Problems		
52	Operators		

UNIT - V: NUMERICAL INTEGRATION AND SOLUTION OF ORDINARY DIFFERENTIAL **EQUATION** 

CO5:Apply different algorithms for approximating the solutions of ordinary differential equations to its analytical computations (L3)
TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

53	Trapezoidal rule		
54	Simpson's 1/3 rule	7	
55	Problems	$\exists$	
56	Simpson's 3/8 rule	1	
57	Taylor's series method		
58	Problems	From	Lecture
59	Picard's method of successive approximation	02-12-2019.	interspersed
60	Euler's method	To: 21-12-2019	with discussions
61	Euler's modified method		
62	Problems		
63	Rungekutta method		
64	Problems		

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# TENTATIVE LESSON PLAN: R19 B S1108

	Date: 26.08.2019		No: 1 of 2
Revision	No :00 Prepared By : M. Vidya Elizabe	th Appro	ved By: HO
Tools: No. of	TOPIC	DATE	36.7.0
Periods	TOPIC	DATE	Mode of
UNIT	п : ACOUSTICS & ULTRASONICS		Delivery
OINI			
	CO2: Explain how sound is propagated in buildings, analyze acoustic properties of typically used		
	materials in buildings and recognize sound level		
	disruptors and their use in architectural acoustics.		
	Use of ultrasonics in flaw detection using NDT		
	technique.	-	
		From: 26-08-2019	
1.	ACOUSTICS: Introduction, Reverberation	7 20 00 2015	
2	Reverberation time		
3	Sabine's formula		
4	Formula (Derivation using growth and decay method)		
5	Absorption coefficient and its determination		
6	Determination factorsaffecting acoustics of buildings		
	and their remedies.		
7	Problems		Lecture
8	ULTRASONICS: Introduction	1	intersperse with
. 9	Production of ultrasonics by Magnetostriction	To 14-09-2019	discussion
10	Non-Destructive Testing	14-09-2019	
11	Production of ultra-sonics by piezoelectric methods		
12	Detection of ultrasonic		
13	Acoustic grating - Non-Destructive Testing	1	
14	Pulse echo system through transmission mode		
15	Pulse echo system through reflection modes	1	
16	Applications		
UNIT	I : MECHANICS:		
	CO1: Identify forces and moments in mechanical		
	systems using scalar and vector techniques and extend Newton's second law for inertial and non-		
	inertial frame of reference	Г	
	mot dat it ame of reference	From: 16-09-2019	
17	Basic laws of vectors and scalars	10-09-2019	
18	Rotational frames		
19	Conservative and Non Conservative Forces		
20	F=-grad V, Newton's law of inertial		
21	Linear accelerating non inertial frames of references		Lecture
22	Rotating frame of reference with constant angular	То	interspersed
	velocity	5-10-2019	with
23	P Harmonic Oscillator;		discussions
24	Damped Harmonic Motion		
25	Forced Oscillations	so alteria	
26	Resonance	/	
27	Problems	russign (Add)	
NIT	III : ELASTICITY	From:	
沙漠	CO3: Understand the elasticity and plasticity	14-10-2019	

	concepts, Study different types of moduli and their			
	relation and analyze the concepts of shearing force			
	and moment of inertia.			
	Control of the Contro		rune Tine: Fo	CONSTRUCT
28	Stress&Strain	10/2504/07/25/40	the second secon	Life Living of the horizon
. 29	Hooks law	То		
30	Stress-Strain Curve	11-11-2019		
31	Generalised Hooks law with thermal strains for isotropic			
	materials		Lecture	
32	Generalised Hooks law without thermal strains for		interspersed	
	isotropic materials		with	
33	Different types of moduli and their relations		discussions	
34	Bending of beams			
35	Bending moment of a beam			
36	Depression of cantilever.			
37	Problems	-		
UNIT	IV: LASERS & SENSORS			
	CO4: Understand the basic concepts of LASER light			
	Sources and study different types of laser systems.			
	Identify different types of sensors and their working		Contractive to the second contractive to the	
	principles.			
		From:		
38	LASER: Characteristics	13-11-2019		
39	Spontaneous and Stimulated Emission of Radiation	13-11-2019		
40	Population inversion			
41	Einstein coefficients			
42	Relation between them and their significance			
43	Pumping Mechanisms			
44	Ruby Laser & its applications	To		
45	He-Ne Laser & its Applications	28-11-2019		
46	SENSORS: Different types of sensors and applications	20-11-2019		
47	Strain and Pressure sensors			
48	Piezoelectric, Magneto strictive sensors			
49	Temperature sensor			
50	Bimetallic strip, Pyroelectric detectors			
51	Problems			
NIT	V: MAGNETISM & DIELECTRICS			
)TATT				
	CO5: Explain the applications of dielectric and			
	magnetic materials & Apply the concept of			
	magnetism to magnetic devices.			
52	MAGNETISM: Introduction	From:		
		30-11-2019		
	Magnetic dipole momentum, Magnetization-			
	Magnetic susceptibility and permeability			
	Origin of permanent magnetic moment			
	Bohr Magneton -Classification of magnetic materials			
	(Dia, Para and Ferro)			
	Soft and hard magnetic materials	. То		
	Applications of Ferromagnetic material	21-12-2019		n namena a
	Problems Ognica Ognica Communication	<u> </u>	ecod	Oscallations
	DIELECTRICS: Introduction,			indesso.till
61	Dielectric polarization		Problem	ng Propinsi
EXPERIENCE AND ARREST OF PARTY.	C		F	LABRILITY
	Susceptibility and Dielectricconstant  Types of polarizations: Electronic and Ionic (Quantitative)			I Salastand

(614 A 5 10 12 ) . . .

64	Orientational polarizations			
 65	Lorentz internal field			
66	Claussius_Mossoti equation-			
67 -	Loss, Breakdown and strength of dielectric materials			
 68	Frequency dependence of polarization - Applications of dielectrics	44.15 AP.15	4/10/14	H 1254
69	Problems			

H,V. Elizabeth
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#### TENTATIVE LESSON PLAN: R19ES1101

		TENTATIVE LESSON PLAN: R19ES			
		RAMMING FOR PROBLEM SOLVING U		San Signature San S	
Section		Date: 26/8/2019	Page No: 0		
Revision		Prepared By : CH SIVA RAJESH	Approved By: HOD		
Tools: B	lack board, P	PTs, Moodle			
No. of Periods		TOPIC	Date	Mode of Delivery	
program	o learn about and Structur	ction to C language the computer systems, computing environm e of a C Program. r Problem Solving, Behrouz A. Forouzan, F			
1	Computer Sy	stems	26-8-19		
2	Computing E		28-8-19		
3	Computer lar		29-8-19	The state of the state of the state of	
4		running Programs	30-8-19	Lecture	
5	Computer Nu	umbering System	30-8-19	Interspersed	
6	Storing Integ	ers	31-8-19	With	
7	Storing Real I	Numbers	2-9-19		
8	C Programs,	dentifiers	4-9-19	discussions	
9	Types, Variab	ole .	5-9-19		
10	Constants, In	put/output	6-9-19	7	
11	Programming	g Examples	6-9-19		
12	Scope, Storag	ge Classes and Type Qualifiers	7-9-19		
13	Expressions F	Precedence and Associativity	9-9-19		
14	Side Effects,	Evaluating Expressions	12-9-19		
15	Type Convers	sion Statements	13-9-19		
16	Simple Progra	ams	13-9-19		
17	Command Lir	ne Arguments	16-9-19		
18	Tutorial		16-9-19		
UNIT-II	Operate	ors, Selection and Repetition			
CO2: To TB1: Pro	gain knowled ogramming for	ge of the operators, selection, control stater r Problem Solving, Behrouz A. Forouzan, F	nents and repetition Richard F.Gilberg, C	in C. CENGAGE	
19	Exact Size Int	eger Types	18-9-19		
20	Logical Bitwis	e Operators	19-9-19		
21	Shift Operato	rs	20-9-19		
22	Logical Data	and Operators	20-9-19	T cotume	
23	Two Way Sele	ection	21-9-19	Lecture interspersed	
24	Multiway Sel		23-9-19	micropersed	

No. of Periods	TOPIC	Date	Mode of Delivery
35	Tutorial	4-10-19	
33	Programming Example The Calculator Program	4-10-19	
32	Looping Applications	4-10-19	
31	Other Statements Related to Looping	3-10-19	
30	Loops in C	30-9-19	
29	Event and Counter Controlled Loops	28-9-19	
28	Initialization and Updating	27-9-19	
27	Pretest and Post-test Loops	27-9-19	
26	Concept of Loop	26-9-19	discussions
25	More Standard Functions	25-9-19	with

UNIT-III Arrays, String, Enum, Structure, Unions

CO3: To learn about the design concepts of arrays, strings, enumerated structure and union types. To learn about their usage.

TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

		,	
36	Concepts, Using Array in C	5-10-19	
37	Array Application	14-10-19	7
38	Two Dimensional Arrays	16-10-19	
39	Multidimensional Arrays	17-10-19	
40	Programming Example – Calculate Averages	18-10-19	
41	String Concepts, C String	18-10-19	†
42	String Input / Output Functions	19-10-19	1
43	Arrays of Strings	28-10-19	1
44	String Manipulation Functions	30-10-19	
45	String/ Data Conversion	31-10-19	
46	A Programming Example – Morse Code	1-11-19	Lecture
47	The Type Definition (Type def)	1-11-19	interspersed
48	Enumerated Types	2-11-19	with
49	Structure	4-11-19	diamaiana
50	Unions	6-11-19	discussions
51	Programming Application	7-11-19	
52	Tutorial	7-11-19	

#### UNIT-IV Pointers

CO4: To assimilate about pointers, dynamic memory allocation and know the significance of Preprocessor.

TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

No. of Periods	TOPIC	Date	Mode of Delivery
53	Interdiction	8-11-19	The second second
54	Pointers to pointers	8-11-19	
55	Compatibility, L value and R value	11-11-19	
56	Arrays, and Pointers	13-11-19	

57	Pointer Arithmetic and Arrays	14-11-19	Lecture
58	Memory Allocation Function	15-11-19	interspersed
59	Array of Pointers	15-11-19	with
60	Programming Application	16-11-19	discussions
61	Processor Commands	18-11-19	
62	Tutorial	18-11-19	
UNIT-V			
CO5: T	assimilate about File I/O and significance of function	s.	
TB1: Pr	ogramming for Problem Solving, Behrouz A. Forouza	n, Richard F.Gilberg, C	ENGAGE
63	Files, Streams	20-11-19	
64	Standard Library Input / Output Functions	21-11-19	
65	Formatting Input / Output Functions	22-11-19	
66	Character Input / Output Functions	22-11-19	
67	Text versus Binary Streams	23-11-19	
68	Functions for Files	25-11-19	
69	Converting File Type	27-11-19	Lecture
70	Designing, Structured Programs	28-11-19	interspersed
71	Function in C	29-11-19	with
72	User Defined Functions	30-11-19	discussions
73	Inter-Function Communication	2-12-19	
74	Standard Functions	4-12-19	
75	Passing Array to Functions	5-12-19	
76	Passing Pointers to Functions	6-12-19	
77	Recursion	11-12-19	
78	Passing an Array to Function	16-12-19	
, 0	1,	18-12-19	

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SRK Institute of Technology SNIKEPADU, VIJAYAWADA-521 108 Signature of HOD

# TENTATIVE LESSON PLAN

~	urse Title: ENGINEERING DRAWING Course Code: ES		
Section: I	Date: 26/08/2019	Page No	:01 of 02
Revision No: 0		Approve	ed By: HOD
Tools: Black bo			
No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I IN	TRODUCTION TO DRAWING		
	raw the polygons, curves.		
FB: "Engineeri Anand. 49 <sup>th</sup> Ed	ing Drawing", by N.D. Butt &V.M. Panch	al, Chariot Publi	shing House
Anand. 49 Eu	Introduction	30/08/2019	
2			
3	Lettering and Dimensioning Geometrical constructions	05/09/2019	
		06/09/2019	
4	Parabola, Ellipse and Hyperbola	12/09/2019	Lecture
5	Polygons	13/09/2019	interspersed
6	Cycloids	19/09/2019	with
7	Involutes	20/09/2019	discussions
8	Vernier scales	26/09/2019	1
9 UNIT-II IN	Plain scales, diagonal scale   TRODUCTION TO ORTHOGRAPHIC P	27/09/2019	
2 <sup>nd</sup> Edition – 20			
10	Projections of points in various quadrants	10/10/2019	Lecture
10 11	Projections of points in various quadrants Projections of lines, lines parallel either of the		Lecture
11	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes	ne 11/10/2019	intersperse
11 12	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths,	ne 11/10/2019 17/10/2019	interspersed with
11 12 13	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces.	ne 11/10/2019	interspersed with
11  12  13  UNIT-III F  CO3: Able to d	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both	17/10/2019 17/10/2019 18/10/2019 1 the planes and i	interspersed with discussions ts traces.
11 12 13 UNIT-III F CO3: Able to d	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata	17/10/2019 17/10/2019 18/10/2019 1 the planes and i	interspersed with discussions ts traces.
11  12 13  UNIT-III F CO3: Able to d IB: "Engineeri	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and	17/10/2019 17/10/2019 18/10/2019 1 the planes and in McGraw Hill P	interspersed with discussions ts traces. ublishers, 2 <sup>n</sup>
11  12  13  UNIT-III F  CO3: Able to d  TB: "Engineeri  Edition – 2015.	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata  Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and perpendicular to other plane)	17/10/2019 17/10/2019 18/10/2019 1 the planes and it a McGraw Hill P	interspersed with discussions  ts traces. ublishers, 2 <sup>n</sup> Lecture interspersed
11  12  13  UNIT-III F  CO3: Able to d  TB: "Engineeri  Edition – 2015.  14	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane)	17/10/2019 17/10/2019 18/10/2019 1 the planes and it a McGraw Hill P	interspersed with discussions ts traces. ublishers, 2 <sup>n</sup> Lecture interspersed with
11  12  13  UNIT-III F  CO3: Able to d  FB: "Engineeri Edition – 2015.  14	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata  Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and perpendicular to other plane)	11/10/2019 17/10/2019 18/10/2019 1 the planes and it a McGraw Hill P	interspersed with discussions ts traces. ublishers, 2 <sup>n</sup> Lecture interspersed with
11  12  13  UNIT-III F  CO3: Able to d  TB: "Engineeri  Edition – 2015.  14  15  16  17	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane)	11/10/2019 17/10/2019 18/10/2019 18/10/2019 1 the planes and if a McGraw Hill P 1 31/10/2019 1 01/11/2019 07/11/2019	interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with
11  12  13  UNIT-III F  CO3: Able to d  FB: "Engineeri Edition – 2015.  14  15  16  17  UNIT-IV P	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS	17/10/2019 17/10/2019 18/10/2019 18/10/2019 1 the planes and it is McGraw Hill P  d 31/10/2019 1 01/11/2019 07/11/2019 08/11/2019	interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions
11  12  13  UNIT-III F  CO3: Able to d  FB: "Engineeri Edition – 2015.  14  15  16  17  UNIT-IV P  CO4: Able to ict to both the plan	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Traw the projections of lines inclined to both ang Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS dentify the different plans and draw the projection.	11/10/2019 17/10/2019 18/10/2019 18/10/2019 1 the planes and if a McGraw Hill P 1 31/10/2019 1 01/11/2019 1 07/11/2019 1 08/11/2019 2 rojections of the p	interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions the discussions of the discussions the discussions of the discussions of the discussions the discussions of the discussions the discussions of t
11  12  13  UNIT-III F  CO3: Able to d  FB: "Engineeri Edition – 2015.  14  15  16  17  UNIT-IV P  CO4: Able to ict to both the plan	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES Traw the projections of lines inclined to both ang Drawing", by Agarwal & Agarwal, Tata Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS dentify the different plans and draw the projection.	11/10/2019 17/10/2019 18/10/2019 18/10/2019 1 the planes and if a McGraw Hill P 1 31/10/2019 1 01/11/2019 1 07/11/2019 1 08/11/2019 2 rojections of the p	interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions the discussions of the discussions the discussions of the discussions of the discussions the discussions of the discussions the discussions of t
11  12  13  UNIT-III F  CO3: Able to d  FB: "Engineeri Edition – 2015.  14  15  16  17  UNIT-IV P  CO4: Able to ict to both the plan	Projections of points in various quadrants Projections of lines, lines parallel either of the reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to both and Drawing", by Agarwal & Agarwal, Tata  Projection of plane (parallel to one plane and perpendicular to other plane) Projection of plane (parallel to one plane and inclined to other plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) Projection of plane (inclined to both plane) ROJECTIONS OF SOLIDS dentify the different plans and draw the projection of plane, by Agarwal & Agarwal, Tata	11/10/2019 17/10/2019 18/10/2019 18/10/2019 1 the planes and if a McGraw Hill P 1 31/10/2019 1 01/11/2019 1 07/11/2019 1 08/11/2019 2 rojections of the p	interspersed with discussions ts traces.  ublishers, 2 <sup>n</sup> Lecture interspersed with discussions the discussions of the discussions the discussions of the discussions of the discussions the discussions of the discussions o

19	Prisms, Pyramids	15/11/2019	interspersed
20	Cones with the axis inclined to both the planes	21/11/2019	with
21	Cylinders with the axis inclined to both the	22/11/2019	discussions
IDITE II C	planes		

UNIT-V Conversion of isometric views to orthographic views

CO5: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd Edition - 2015.

22	Isometric views to orthographic views	28/11/2019	
23	Orthographic views to isometric views.	29/11/2019	Lecture
24	Computer Aided Design	06/12/2019	interspersed
25	Drawing practice using Auto CAD	12/12/2019	with
26	Creating 2D&3D drawings	13/12/2019	discussions

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Date: 26 819

Signature of HOD

Date:

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### I Year - I SEMESTER

Sl. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1101	Programming for Problem Solving Using C	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1102	Programming for Problem Solving Using C Lab	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
		Total Credits	16	0	12	19

#### I Year - IISEMESTER

Sl.	Course	Subjects	L	T	P	Credits
No	Code					•
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1209	Network Analysis	3	0	0	3
5	ES1211	Basic Electrical Engineering	3	0	0	3
6	ES1215	Electronic workshop	0	0	2	1
7	ES1208	Basic Electrical Engineering Lab	0	0	3	1.5
8	BS1205	Applied Physics Lab	. 0	0	3	1.5
9	HS1203	Communication Skills Lab	0	0	2	1
10	PR1201	Engineering Exploration Project	0	0	2	1
			15	0	12	21

# TENTATIVE LESSON PLAN: R19HS1101

Section : ECE	C-A Date: 26-08-2019	Page N	<b>To:</b> 01 of 03
Revision No: 0	O Prepared By: Mr. Yellamanda Vusa	Appro	ved By: HOD
Tools: Black b			
No. of Periods	TOPIC	Date	Mode of Delivery
CO1: Facilitate English spoker	nwer full of happiness, Deliverance by Premche e effective listening skills for better comprehen by native speakers English, Maruthi Publications, —The Individual S	nsion of academic	
1	A Drawer full of happiness	26-8-19	
2	Listening: Short Audio Texts	28-8-19	
3	Speaking: Asking and answering questions	30-8-19	Lecture
4	Reading: Skimming and Scanning	3-9-19	interspersed with
5	Reading for Writing: Paragraph writing	3-9-19	discussions
6	Vocabulary: Technical Vocabulary	4-9-19	
7	Grammar: Content words and function words	4-9-19	
8	The Deliverance : Munshi Prem Chand	5-9-19	
9	Long Answers	6-9-19	7
10	Short Answers	9-9-19	7
CO2: Focus on and authentic	's letter to his daughter Indira on her birthday, B appropriate reading strategies for comprehe naterials dish, Maruthi Publications, —The Individual Soci	nsion of various	academic text
12	Nehru's letter to his daughter Indira on her birthday	11-9-19	
13	Listening: Answering a series of questions	12-9-19	1
14	Speaking: Discussion in pairs	13-9-19	
15	Reading: Identifying sequence of ideas	16-9-19	Lecture interspersed

16 = 15	Reading for Writing: Summarizing	18-9-19	with
17	Vocabulary: Technical vocabulary	19-9-19	discussions
18	Grammar: Use of articles	20-9-19	
19	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	
21	Short Answers	25-9-19	

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

TB: Infotech English, Maruthi Publications, -The Individual Society, Pearson Publications 27-9-19 24 Stephen Hawking-Positivity 'Benchmark Listening: Listening for global comprehension 25 30-9-19 Lecture interspersed 26 Speaking: Discussing specific topics in pairs 10-10-19 with discussions 27 Reading: Reading a text in detail 14-10-19 Reading for Writing: Summarizing 15-10-19 28 Vocabulary: Technical vocabulary 16-10-19 29 30 Grammar: Verbs - tenses; subject-verb agreement 4-11-19 31 Shakespeare's Sister by Virginia Woolf 7-11-19 32 Long Answers 8-11-19

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture
35	Speaking: Role plays for practice of conversational	18-11-19	interspersed with

A section of the sect	English	and an other section of the contract sections.	discussions
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

Grammar: Editing short texts

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

41	Stay Hungry-Stay foolish	4-12-19	
			T
42	Listening Identifying key terms	5-12-19	Lecture interspersed
43	Speaking: Formal oral presentations	6-12-19	with discussions
44	Reading: Reading for comprehension	9-12-19	
. 45	Reading for Writing: Writing academic proposals	12-12-19	
46	Vocabulary: Technical vocabulary	13-12-19	

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Signature of HOD

16-12-19

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# TENTATIVE LESSON PLAN: R19HS1101

Section : ECI	English HS1101 E-B Date: 26-08-2019	Page N	lo:01 of 03
Revision No :			
Tools: Black b		sa Appro	ved By: HOD
No. of Periods	TOPIC	Date	Mode of Delivery
CO1: Facilitat English spoker	awer full of happiness, Deliverance by Prene effective listening skills for better compres by native speakers English, Maruthi Publications, —The Individua	hension of academic	e lectures and
1	A Drawer full of happiness	26-8-19	ubilications
2	Listening: Short Audio Texts	28-8-19	
3	Speaking: Asking and answering questions	30-8-19	
4	Reading: Skimming and Scanning	3-9-19	Lecture interspersed
5	Reading for Writing: Paragraph writing	3-9-19	with discussions
6	Vocabulary: Technical Vocabulary	4-9-19	
7	Grammar: Content words and function words	4-9-19	
8	The Deliverance : Munshi Prem Chand	5-9-19	
9	Long Answers	6-9-19	
10	Short Answers	9-9-19	
CO2: Focus on and authentic r	lish, Maruthi Publications, —The Individual Sc	hension of various a	cademic texts
12	Nehru's letter to his daughter Indira on her birthday	11-9-19	
13	Listening: Answering a series of questions	12-9-19	
14	Speaking: Discussion in pairs	13-9-19	
15	Reading: Identifying sequence of ideas	16-9-19	Lecture interspersed

16	Reading for Writing: Summarizing	18-9-19	with
17	Vocabulary: Technical vocabulary	19-9-19	discussions
18	Grammar: Use of articles	20-9-19	
19	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	
21	Short Answers	25-9-19	

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

24	nglish, Maruthi Publications, —The Individual Society Stephen Hawking-Positivity Benchmark	27-9-19	
25	Listening: Listening for global comprehension	30-9-19	Lecture
26	Speaking: Discussing specific topics in pairs	10-10-19	interspersed with
27	Reading: Reading a text in detail	14-10-19	discussions
28 -	Reading for Writing: Summarizing	15-10-19	
29	Vocabulary: Technical vocabulary	16-10-19	
30	Grammar: Verbs - tenses; subject-verb agreement	4-11-19	
31	Shakespeare's Sister by Virginia Woolf	7-11-19	
32	Long Answers	8-11-19	-

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture interspersed with
35	Speaking: Role plays for practice of conversational	18-11-19	

100 Marin 1 2 de 11 de 12 de	English	the state of the state of the same of the	discussi
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

41	English, Maruthi Publications, —The Individual Societ Stay Hungry-Stay foolish	4-12-19	, leations
			T
42	Listening Identifying key terms	5-12-19	Lecture intersperse
43	Speaking: Formal oral presentations	6-12-19	with discussion
44	Reading: Reading for comprehension	9-12-19	
45	Reading for Writing: Writing academic proposals	12-12-19	
46	Vocabulary: Technical vocabulary	13-12-19	
47	Grammar: Editing short texts	16-12-19	
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SRK Institute of Technology **ENIKEPADU, VIJAYAWADA-521 108** 

# TENTATIVE LESSON PLAN: R19BS1101

Course Title: Section : EC		Date: 26-08-2019	Page No	: 01 of 02
Revision No: 00 Prepared By: B.V.RAMAKRISHNA				
Tools: Black l			Approvi	ed by . HOI
No. of Periods		TOPIC	Date	Mode of
				Delivery
CO1: utilize m TB:" Enginee:	ean valu	S, SERIES AND MEAN VALUE THEOR te theorems to real life problems thematics", Dr. T.K.V.Iyengar; S.Chand p		1
1		JENCES AND SERIES:		
2	Ratio	ergence and Divergence	1	
3			ļ	•
4		parison test	From:	
5		ny 's root test	26-08-2019	Lecture
6		nating series	20-08-2019	
7		itz 's rule	To:	intersperse with
8		Value Theorems:	14-09-2019	discussion
	A STATE OF THE STA	's Theorem	1. 05 2015	uiscussion
9		nge 's mean value theorem	1	
10		y 's mean value theorem		
11		r 's and Maclaurin 's theorems with	1	
	remain			
UNIT-II DI	FFEREN	TIAL EQUATIONS OF FIRST ORDER AN	D FIRST DEEC	REE
CO2: Solve the	differen	ntial equations related to various engineer	ing fields	
		ematics", Dr. T.K.V.Iyengar; S.Chand pu		
12	Introd	uction: Differential Equations of First order		
	first de			
13	Exact	Equations – Conditions of Exactness		
14	Equati	ons reducible to Exact		
15 .	Non E	Exact Differential Equations	From:	
16	Linear	Differential Equations of first order	16-09-2019	
17		uli Equation	_	Lecture
18	Equati	ons reducible to linear	То:	intersperse
19	Orthog	gonal Trajectories - Cartesian	05-10-2019	with
20		gonal Trajectories - Polar	33 10-2017	discussions
21	Newto	n's law of cooling		
22	Natura	ll growth or decay		
		cal Circuits		

### UNIT-III: LINEAR DIFFERENTIAL EQUATIONS OF HIGHER ORDER

CO3: Solve the differential equations related to various engineering fields

TB: "Engineering Mathematics", Dr. T.K.V. Ivengar; S. Chand publications

24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x), Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	_ &	with
29	Q(x) = xV(x)	From:	discussions
30	$Q(x) = x^n \sin ax \ or \cos ax$	28-10-2019	
31	Method of variation of parameters	To:	
32	Applications: LCR Circuit	09-11-2019	

#### UNIT-IV PARTIAL DIFFERENTIATION

CO4: Familirize with functions of several variables which is useful in optimization

TB: "Engineering Mathematics", Dr. T.K.V. Iyengar; S. Chand publications

33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	From:	- 136
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series	_	interspersed
.37	Jacobians, formulae	To:	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
			L

#### **UNIT-V: MULTIPLE INTEGRALS**

CO5: Apply double integration techniques in evaluating areas bounded by region TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

41	Introduction	From:	
42	Double integrals	02-12-2019.	
43	Triple integrals	To:	Lecture interspersed
44	Change of order of integration		with discussions
45	Change of variable	21-12-2019	
46	Applications: Finding areas		
47	Finding volumes		

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# TENTATIVE LESSON PLAN: R19BS1101

Section : ECE	MATHEMATICS - 1 2 – B   Date : 26-08-2019	Dogo No	.01 .602	
Revision No : 0			:01 of 02	
Tools: Black be		Approved By : HO		
No. of Periods	TOPIC	Date	Mode of Delivery	
CO1: utilize me	JENCES, SERIES AND MEAN VALUE THEOR can value theorems to real life problems ing Mathematics", Dr. T.K.V.Iyengar; S.Chand p    SEQUENCES AND SERIES:		ı	
	Convergence and Divergence			
2	Ratio test			
3	Comparison test		+	
4	Integral test	From:		
5	Cauchy 's root test	26-08-2019	Lecture	
6	Alternating series		interspersed	
7	Leibnitz 's rule	To:	with	
8	Mean Value Theorems:	14-09-2019	discussions	
	Rolle 's Theorem			
9.	Lagrange 's mean value theorem			
10	Cauchy 's mean value theorem			
11	Taylor 's and Maclaurin 's theorems with			
	remainders			
UNIT-II DIF	FERENTIAL EQUATIONS OF FIRST ORDER AN	D FIRST DEEG	REE	
CO2: Solve the	differential equations related to various engineer	ing fields		
B:" Engineerin	g Mathematics", Dr. T.K.V.Iyengar; S.Chand pu	blications		
12	Introduction: Differential Equations of First order			
	first degree			
13	Exact Equations – Conditions of Exactness			
14	Equations reducible to Exact			
15	Non Exact Differential Equations	From:		
16	Linear Differential Equations of first order	16-09-2019		
17	Bernouli Equation		Lecture	
18	Equations reducible to linear	To:	interspersed	
19	Orthogonal Trajectories - Cartesian	05-10-2019	with	
20	Orthogonal Trajectories - Polar	35 10 2019	discussions	
21	Newton's law of cooling			
22	Natural growth or decay			
23	Electrical Circuits			

The same of the sa	LINEAR DIFFERENTIAL EQUATIONS OF H		resolvation revolution person
CO3: Solve t	the differential equations related to various engi	ineering fields	
TB: Engine	eering Mathematics", Dr. T.K.V.Iyengar; S.Cha	and publications	
24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x)$ , $Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	&	with
29	Q(x) = xV(x)	From: 28-10-2019	discussions
30	$Q(x) = x^n \sin ax \ or \cos ax$	To:	
31	Method of variation of parameters		
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV	PARTIAL DIFFERENTIATION		1
CO4: Famili	rize with functions of several variables which is	usoful in antimiza	4: <sub>2</sub>
TB: Engine	ering Mathematics", Dr. T.K.V.Iyengar; S.Char	useiui ili opiiliitza nd nublications	цоп
33	Homogeneous function; Euler's Theorem	publications	T
34	Total Derivative; Chain rule	From:	
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series		interspersed
37	Jacobians, formulae	To:	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
UNIT-V: MU	LTIPLE INTEGRALS		
CO5: Apply	double integration techniques in evaluating area	as bounded by regi	on
	ering Mathematics", Dr. T.K.V.Iyengar; S.Char		
41	Introduction	From:	
42	Double integrals	02-12-2019.	T
43	Triple integrals	To:	Lecture interspersed
44	Change of order of integration		with
45	Change of variable	21-12-2019	discussions

Signature of Faculty

46 47 Applications: Finding areas

Finding volumes

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(ISO 9001:2015 Certified Institution)

Department of Science and Humanities

23-9-2019

Course Title:	B. Tech	E LESSON PLAN: APPLIED		CI (DOIIO
Section : EC	E-A	Date: 26-8-2019	Page N	I- 12
Revision No:	00	Prepared By : K.P.T.VIJAYA		lo: 1-3
		BHASKAR	Appro	ved By : HOD
Tools: Black	board a	nd chalk.		
No. of		TOPIC	Date	M-1 c
Periods: 75			Date	Mode of Delivery
	Unit -	II :ELECTROCHEMICAL CELLS AND	CORROSION	
CO2: Outline	the basic	es for the construction of electrochemical	cells hatteries	and
fuelcells. Unde	erstand	the mechanism of corrosion and how it of	on he proved	allu
(Engineering C	hemistr	y by Jain and Jain; Dhanpat Rai Publicatin	air de prevente	<b>3a.</b> ··- ··- ·- ·- ·
1		Unit -II :ELECTROCHEMICAL CELLS		
2	Single	electrode potentia.	26-8-2019	_
3		ochemical series and uses of series	26-8-2019	4
4		ard hydrogen electrode, calomel electrode	27-8-2019	+
5	concer	ntration cell-	28-8-2019	+
6		uction of glass electrode	30-8-2019	-
7		ies: Dry cell, Ni-Cd cells,	4-9-2019	+
8		al hydride cells, Li ion battery, zinc air cells	5-9-2019	Lecture
9	Fuel ce	ells: H2-O2, CH3OH-O2,	6-9-2019	interspersed
10		noric acid, molten carbonate	9-9-2019	with
11		sion:-Definition-theories of corrosion	9-9-2019	discussions
12	galvani	c corrosion, differential aeration corrosion,	9-9-2019	
	stress	corrosion,	3-3-2019	
13	waterli	ne corrosion-passivity of metals-galvanic	11-9-2019	
	series		2015	
14	Factors	influencing rate of corrosion-corrosion	13-9-2019	
16	control			
15	Protect	ive coatings: Surface preparation, cathodic	16-9-2019	
16	Ano	dic coatings, electroplating, electroless	17-9-2019-	
17	Daints /	plating (nickel).		
17	raints (	constituents, functions, special paints).	18-9-2019	
O4. T		Unit - I: POLYMER TECHNOLO	GY	
JI: Importance	of usag	e of plastics in household appliances and	composites(F	RP) in
rospace and au	itomotiv	e industries.		
(Er	ngineerin	ng Chemistry by Jain and Jain; Dhanpat Ra	ai Publicating o	70.1
1	Polymer	isation:- Introduction-methods of	23-9-2019	.0.)
	polymer	rization		

physical and mechanical properties.



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Department of Science and Humanities

3	Plastics: Compounding-fabrication	24-9-2019	
4	preparation, properties and applications of PVC,	25-9-2019	
5	polycarbonates and Bakelite-mention some examples of plastic.	26-9-2019	Lecture interspersed
6	Materials used in electronic gadgets, recycling of e-plastic waste	26-9-2019	with discussions
7	Elastomers:- Natural rubber-drawbacks- vulcanization	26-9-2019	discussions
8	preparation, properties and applications of synthetic rubbers	27-9-2019	
9	(Buna S, thiokol and polyurethanes	27-9-2019	43
10	Composite materials: Fiber reinforced plastics	28-9-2019	
11	Conducting polymers-	30-9-2019	
12	Biodegradable polymers biopolymers	30-9-2019	
13	Biomedical polymers	11-10-2019	

### UNIT III: MATERIAL CHEMISTRY

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquidcrystals.

•	Engineering Chemistry by Jain and Jain; Dhanpat I	Rai Publicating	Co.)
1	Part I: Non-elemental semiconducting materials	14-10-2019	
2	Semiconductor devices (p-n junction diode as rectifier, junction transistor	15-10-2019	
3	Insulators & magnetic materials: electrical insulators	16-10-2019	
4	Ferro and ferri magnetism-Hall effect and its applications.	17-10-2019	
5	Part II: Nano materials:- Introduction-sol-gel method-	18-10-2019	Lecture interspersed
6	characterization by BET, SEM and TEM methods	24-10-2019	with
7	Applications of graphene-carbon nanotubes and fullerenes:	5-11-2019	discussions
8	Types, preparation and applications Liquid crystals	6-11-2019	
9	Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	7-11-2019	

## UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

C04: Outline the basics of computational chemistry and molecular switches.

(Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

Computational chemistry: Introduction, Ab Initio 10-11-2019 studies Molecular switches



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2.	characteristics of molecular motors and machines, Rotaxanes	12-11-2019	
3.	Catenanes as artificial molecular machines, prototypes	18-11-2019	
4.	linear motions in rotaxanes, an acid-base controlled molecular shuttle	18-11-2019	Lecture
5.	a molecular elevator,	19-11-2019	interspersed
6.	an autonomous light-powered molecular motor	20-11-2019	with discussions
7.	Computational chemistry: Introduction, Ab Initio studies Molecular switches	21-11-2019	discussions
8.		22-11-2019	
order taken that the constitute of the constitut	characteristics of molecular motors and machines,		

## UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES

CO5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced.

	Engineering Chemistry by Jain and Jain; Dhanpat Rai	Publicating Co.	
1.	Part A: SPECTROSCOPIC TECHNIQUES Electromagnetic spectrum-UV	29-11-2019	1
2.	laws of absorption, instrumentation,	2-12-2019	+
3	Theory of electronic spectroscopy, Frank-condon principle	3-12-2019	Lecture
4.	chromophores and auxochromes, intensity shifts, applications	4-12-2019	interspersed with
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	5-12-2019	discussions
6.	Magnetic resonance imaging and CT scan (procedure & applications).	6-12-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	9-12-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	10-12-2019	
9.	hydropower, geothermal power,	11-12-2019	
10.	Tidal and wave power	12-12-2019 17-12-2019	

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Department of Science and Humanities

Section : EC		Date: 26-8-2019		Page No	1-3
Revision No :	00	Prepared By: K.P.T.VIJAYA BHASKAR	Approved By :		
Tools: Black b	oard a	nd chalk.			
No. of Periods: 75		TOPIC		ate	Mode of Delivery
	Unit -	I :ELECTROCHEMICAL CELLS AND	CORR	OSION	
CO2: Outline t	he basic	s for the construction of electrochemical	cells, b	atteries a	nd
fuelcells. Unde	rstand	the mechanism of corrosion and how it c	an he n	revented	1
(Engineering C	hemistr	y by Jain and Jain; Dhanpat Rai Publicatin	ar co l	TOVELLEC	
1		Unit -II :ELECTROCHEMICAL CELLS		-2019	
2	Single	electrode potentia.		-2019	
3		ochemical series and uses of series		2019	
4		rd hydrogen electrode, calomel electrode		2019	
5	concer	ntration cell-		2019	
6	constr	uction of glass electrode	3-9-2		
7 :		es: Dry cell, Ni-Cd cells,	4-9-2		
8	Ni Met	al hydride cells, Li ion battery, zinc air cells	5-9-2019		Lecture
. 9	Fuel ce	lls: H2-O2, CH3OH-O2,	6-9-2		interspersed
10		oric acid, molten carbonate	9-9-2019		with
11	Corros	ion:-Definition-theories of corrosion	9-9-2	019	discussions
12	galvani stress o	c corrosion, differential aeration corrosion, orrosion,	9-9-2		
13	waterli series	ne corrosion-passivity of metals-galvanic	11-9-	2019	
14	Factors control	influencing rate of corrosion-corrosion	13-9-2	2019	
. 15	Protect	ive coatings: Surface preparation, cathodic	16-9-2	2019	
16	Ano	dic coatings, electroplating, electroless plating (nickel).	17-9-2		
17	Paints (	constituents, functions, special paints).	18-9-2	2019	
		Unit - I: POLYMER TECHNOLO	GV	3.15	
01: Importance	of usag	e of plastics in household appliances and	comm	ogitos/ET	, n
rospace and au	tomotiv	e industries.			
.a. Pub (Er	gineerir	ng Chemistry by Jain and Jain; Dhanpat Ra	i Publi	cating Co	).)
1	Polymer	isation:- Introduction-methods of	23-9-2		~1
	polymer	ization			



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3	Plastics: Compounding-fabrication	24-9-2019	
4	preparation, properties and applications of PVC,	25-9-2019	
5	polycarbonates and Bakelite-mention some examples of plastic.	26-9-2019	Lecture interspersed
6	Materials used in electronic gadgets, recycling of e-plastic waste	26-9-2019	with
7	Elastomers:- Natural rubber-drawbacks- vulcanization	26-9-2019	discussions
8	preparation, properties and applications of synthetic rubbers	27-9-2019	*: *
9	(Buna S, thiokol and polyurethanes	27-9-2019	
10	Composite materials: Fiber reinforced plastics	28-9-2019	
11	Conducting polymers-	30-9-2019	
12	Biodegradable polymers biopolymers	30-9-2019	
13	Biomedical polymers	11-10-2019	

### UNIT III: MATERIAL CHEMISTRY

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquidcrystals.

(Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

1	Part I : Non-elemental semiconducting materials	14-10-2019	<u> </u>
2	Semiconductor devices (p-n junction diode as rectifier, junction transistor	15-10-2019	
3	Insulators & magnetic materials: electrical insulators	16-10-2019	
4	Ferro and ferri magnetism-Hall effect and its applications.	17-10-2019	
. 5	Part II: Nano materials:- Introduction-sol-gel method-	18-10-2019	Lecture interspersed
6	characterization by BET, SEM and TEM methods	24-10-2019	with
7	Applications of graphene-carbon nanotubes and fullerenes:	5-11-2019	discussions
8	Types, preparation and applications Liquid crystals	6-11-2019	
9	Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	7-11-2019	

# UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

**C04**: Outline the basics of computational chemistry and molecular switches.

(Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

Computational chemistry: Introduction, Ab Initio

studies Molecular switches



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	i di	Humannies	
3.	Catenanes as artificial molecular machines, prototypes	18-11-2019	
4.	linear motions in rotaxanes, an acid-base controlled molecular shuttle	18-11-2019	Lecture
5.	a molecular elevator,	19-11-2019	interspersed
6.	an autonomous light-powered molecular motor	20-11-2019	with
7.	Computational chemistry: Introduction, Ab Initio studies Molecular switches	21-11-2019	discussions
8.		22-11-2019	
	characteristics of molecular motors and machines,		

# UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES.

CO5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced.

(Engineering Chemistry by Jain and Jain: Dhanpat Rai Publicating Co.)

1	Part A: SPECTROSCOPIC TECHNIQUES	29-11-2019	T
	Electromagnetic spectrum-UV	25-11-2019	
2.	laws of absorption, instrumentation,	2-12-2019	Lecture interspersed with discussions
3	Theory of electronic spectroscopy, Frank-condon principle	3-12-2019	
4.	chromophores and auxochromes, intensity shifts, applications	4-12-2019	
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	5-12-2019	
6.	Magnetic resonance imaging and CT scan (procedure & applications).	6-12-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	9-12-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	10-12-2019	
9.	hydropower, geothermal power,	11-12-2019	
10.	Tidal and wave power	12-12-2019 17-12-2019	

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## TENTATIVE LESSON PLAN: R19ES1101

Course Title: FROG	RAMMING FOR PROBLEM SOLVING US	SING C (ES1101)
Section : Sec A	Date: 26/8/2019	Page No: 01 of 03
Revision No: 00	Prepared By: CH SIVA RAJESH	Approved By : HOD

Tools: Black board, PPTs, Moodle

No. of	TOPIC		Date	Mode of
Periods	7			Delivery
UNIT-I	Introduction to C language			
program	o learn about the computer systems, computing environ and Structure of a C Program.	iments, de	eveloping of	a computer
	ogramming for Problem Solving, Behrouz A. Forouzan	, Richard	F.Gilberg, (	CENGAGE
1	Computer Systems		26-8-19	
2	Computing Environments		28-8-19	
3	Computer languages		29-8-19	
4	Creating and running Programs		30-8-19	Lecture
5	Computer Numbering System		30-8-19	Interspersed
6	Storing Integers		31-8-19	With
7	Storing Real Numbers		2-9-19	T
8	C Programs, Identifiers		4-9-19	discussions
9	Types, Variable .		5-9-19	
10	Constants, Input/output		6-9-19	
11	Programming Examples		6-9-19	
12	Scope, Storage Classes and Type Qualifiers		7-9-19	
13	Expressions Precedence and Associativity		9-9-19	
14	Side Effects, Evaluating Expressions		12-9-19	1
15	Type Conversion Statements		13-9-19	
16	Simple Programs		13-9-19	
17	Command Line Arguments		16-9-19	
18	Tutorial		16-9-19	
UNIT-II	Operators, Selection and Repetition			
CO2: To	gain knowledge of the operators, selection, control state	ements an	d repetition	in C.
ГВ1: Pro	ogramming for Problem Solving, Behrouz A. Forouzan,	Richard 1	F.Gilberg, C	ENGAGE
19	Exact Size Integer Types		18-9-19	
20	Logical Bitwise Operators		19-9-19	
21	Shift Operators		20-9-19	
22	Logical Data and Operators		20-9-19	- ·
23	Two Way Selection		21-9-19	Lecture
24	Multiway Selection		23-9-19	interspersed

Periods			Delivery
No. of	TOPIC	Date	Mode of
35	Tutorial	4-10-19	
33	Programming Example The Calculator Program	4-10-19	
32	Looping Applications	4-10-19	
31	Other Statements Related to Looping	3-10-19	
30	Loops in C	30-9-19	
29	Event and Counter Controlled Loops	28-9-19	
28	Initialization and Updating	27-9-19	
27	Pretest and Post-test Loops	27-9-19	
26	Concept of Loop	26-9-19	discussions
25	More Standard Functions	25-9-19	with

UNIT-III Arrays, String, Enum, Structure, Unions

CO3: To learn about the design concepts of arrays, strings, enumerated structure and union types. To learn about their usage.

TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

7 (20)			
36	Concepts, Using Array in C	5-10-19	
37	Array Application	14-10-19	
38	Two Dimensional Arrays	16-10-19	
39	Multidimensional Arrays	17-10-19	
40	Programming Example – Calculate Averages	18-10-19	
41	String Concepts, C String	18-10-19	
42	String Input / Output Functions	19-10-19	-
43	Arrays of Strings	28-10-19	1
44	String Manipulation Functions	30-10-19	
45	String/ Data Conversion	31-10-19	1
46	A Programming Example – Morse Code	1-11-19	Lecture
47	The Type Definition (Type def)	1-11-19	interspersed
48	Enumerated Types	2-11-19	with
49	Structure	4-11-19	1
50	Unions	6-11-19	discussions
51	Programming Application	7-11-19	
52	Tutorial	7-11-19	

UNIT-IV Pointers

CO4: To assimilate about pointers, dynamic memory allocation and know the significance of Preprocessor.

TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

No. of Periods	TOPIC	Date	Mode of Delivery
53	Interdiction	8-11-19	
54	Pointers to pointers	8-11-19	
55	Compatibility, L value and R value	11-11-19	
56	Arrays, and Pointers	13-11-19	

57	Pointer Arithmetic and Arrays	14-11-19	Lecture
58	Memory Allocation Function	15-11-19	interspersed
59	Array of Pointers	15-11-19	with
60	Programming Application	16-11-19	discussions
61	Processor Commands	18-11-19	
62	Tutorial	18-11-19	e de la marca de la constante
UNIT-V			
CO5: To	o assimilate about File I/O and significance of function	S.	
TB1: Pr	ogramming for Problem Solving, Behrouz A. Forouza	n, Richard F.Gilberg, C	ENGAGE
63	Files, Streams	20-11-19	
64	Standard Library Input / Output Functions	21-11-19	
65	Formatting Input / Output Functions	22-11-19	
66	Character Input / Output Functions	22-11-19	
67	Text versus Binary Streams	23-11-19	
68	Functions for Files	25-11-19	
69	Converting File Type	27-11-19	Lecture
70	Designing, Structured Programs	28-11-19	interspersed
71	Function in C	29-11-19	with
72	User Defined Functions	30-11-19	discussions
73	Inter-Function Communication	2-12-19	
74	Standard Functions	4-12-19	
75	Passing Array to Functions	5-12-19	
76	Passing Pointers to Functions	6-12-19	
77	Recursion	11-12-19	
78	Passing an Array to Function	16-12-19	
79	Tutorial	18-12-19	

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# TENTATIVE LESSON PLAN: R19ES1101

G Title PDOC	GRAMMING FOR PROBLEM SOLVING US	SING C (ES1101)
	Date: 26/8/2019	Page No: 01 of 03
Section : Sec B		Approved By : HOD
Revision No: 00	Prepared By : CH SIVA RAJESH	110010102

Tools: Black board, PPTs, Moodle

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT-I CO1: To	Introduction to C language below the computer systems, computing envirous and Structure of a C Program.  Outgramming for Problem Solving, Behrouz A. Forouzar		
1	Computer Systems	26-8-19	
2	Computing Environments	28-8-19	
3	Computer languages	29-8-19	
4	Creating and running Programs	30-8-19	Lecture
5	Computer Numbering System	30-8-19	Intersperse
6	Storing Integers	31-8-19	With
7	Storing Real Numbers	2-9-19	1
8	C Programs, Identifiers	4-9-19	discussions
9	Types, Variable	5-9-19	
1 2 1	Constants, Input/output	6-9-19	
10		6-9-19	
11	Programming Examples Scope, Storage Classes and Type Qualifiers	7-9-19	
12	Expressions Precedence and Associativity	9-9-19	
13		12-9-19	
14	Side Effects, Evaluating Expressions	13-9-19	
15	Type Conversion Statements	13-9-19	
16	Simple Programs	16-9-19	
17	Command Line Arguments	16-9-19	-
18	Tutorial Operators Selection and Repetition	10-3-13	

UNIT-II Operators, Selection and Repetition

CO2: To gain knowledge of the operators, selection, control statements and repetition in C. TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

10	Exact Size Integer Types	18-9-19	
19		19-9-19	
20	Logical Bitwise Operators	20-9-19	+
21	Shift Operators		
22	Logical Data and Operators	20-9-19	Lecture
	Two Way Selection	21-9-19	interspersed
23	Multiway Selection	23-9-19	
24	Multiway Selection		

Calle Scale	Charles developed Functions	25-9-19	with
25	More Standard Functions	26-9-19	discussions
26	Concept of Loop	27-9-19	
27	Pretest and Post-test Loops	27-9-19	
28	Initialization and Updating	28-9-19	
29	Event and Counter Controlled Loops	30-9-19	
30	Loops in C	3-10-19	
31	Other Statements Related to Looping	4-10-19	
32	Looping Applications	4-10-19	
33	Programming Example The Calculator Program	4-10-19	
35	Tutorial	Date	Mode of
No. of	TOPIC	Date	Delivery
Periods UNIT-II CO3: To	learn about the design concepts of arrays, strings, enur	nerated structure and	
UNIT-II CO3: To	learn about the design concepts of arrays, strings, enur		l union types.
UNIT-II CO3: To To learn TB1: Pr	o learn about the design concepts of arrays, strings, enumed about their usage. One of the strings of the strin		l union types.
UNIT-II CO3: To To learn TB1: Pr	o learn about the design concepts of arrays, strings, enumabout their usage.  ogramming for Problem Solving, Behrouz A. Forouzan,  Concepts, Using Array in C	Richard F.Gilberg, C	l union types.
UNIT-II CO3: To To learn TB1: Pr 36	o learn about the design concepts of arrays, strings, enumabout their usage.  ogramming for Problem Solving, Behrouz A. Forouzan,  Concepts, Using Array in C  Array Application	Richard F.Gilberg, C 5-10-19 14-10-19	l union types.
UNIT-II CO3: To To learn TB1: Pr 36 37 38	o learn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays	Richard F.Gilberg, 0           5-10-19           14-10-19           16-10-19	l union types.
UNIT-II CO3: To To learn TB1: Pr 36	o learn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays Multidimensional Arrays	Richard F.Gilberg, C 5-10-19 14-10-19 16-10-19 17-10-19	l union types.
UNIT-II CO3: To To learn TB1: Pr 36 37 38	o learn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays	Sichard F.Gilberg, Colored   5-10-19   14-10-19   16-10-19   17-10-19   18-10-19	l union types.
UNIT-II CO3: To To learn TB1: Pr 36 37 38 39	o learn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays Multidimensional Arrays	Sichard F.Gilberg, Colored   5-10-19   14-10-19   16-10-19   17-10-19   18-10-19   18-10-19	l union types.
UNIT-II CO3: To learn TB1: Pr 36 37 38 39 40 41	olearn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays Multidimensional Arrays Programming Example – Calculate Averages String Concepts, C String	Sichard F.Gilberg, Colored   5-10-19   14-10-19   16-10-19   18-10-19   18-10-19   19-	l union types.
UNIT-II CO3: To learn TB1: Pr 36 37 38 39 40 41 42	about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays Multidimensional Arrays Programming Example – Calculate Averages String Concepts, C String String Input / Output Functions	Richard F.Gilberg, C 5-10-19 14-10-19 16-10-19 17-10-19 18-10-19 18-10-19 19-10-19 28-10-19	l union types.
UNIT-II CO3: To learn TB1: Pr 36 37 38 39 40 41	olearn about the design concepts of arrays, strings, enumabout their usage. ogramming for Problem Solving, Behrouz A. Forouzan, Concepts, Using Array in C Array Application Two Dimensional Arrays Multidimensional Arrays Programming Example – Calculate Averages String Concepts, C String	Sichard F.Gilberg, Colored   5-10-19   14-10-19   16-10-19   18-10-19   18-10-19   19-	l union types.

UNIT-IV **Pointers** 

Structure

Tutorial

Unions

45

46

47

48

49

50

51

52

String/ Data Conversion

**Enumerated Types** 

The Type Definition (Type def)

**Programming Application** 

A Programming Example – Morse Code

CO4: To assimilate about pointers, dynamic memory allocation and know the significance of

Preprocessor. TB1: Programming for Problem Solving, Behrouz A. Forouzan, Richard F.Gilberg, CENGAGE

No. of	TOPIC	Date	Mode of Delivery
Periods	Internalization	8-11-19	
53	Introduction	8-11-19	
54	Pointers to pointers	11-11-19	
	Compatibility, L value and R value	13-11-19	
56	Arrays, and Pointers		

Lecture

interspersed

with

discussions

1-11-19

1-11-19

2-11-19

4-11-19

6-11-19

7-11-19

7-11-19

57	Pointer Arithmetic and Arrays	14-11-19	Lecture
58	Memory Allocation Function	15-11-19	interspersed
59	Array of Pointers	15-11-19	with
60	Programming Application	16-11-19	discussions
61	Processor Commands	18-11-19	
62	Tutorial	18-11-19	
UNIT-V	Files and Functions		
CO5: To	o assimilate about File I/O and significance of functions	s.	
TB1: Pr	ogramming for Problem Solving, Behrouz A. Forouzai	n, Richard F.Gilberg, C	ENGAGE
63	Files, Streams	20-11-19	
64	Standard Library Input / Output Functions	21-11-19	
65	Formatting Input / Output Functions	22-11-19	
66	Character Input / Output Functions	22-11-19	
67	Text versus Binary Streams	23-11-19	
68	Functions for Files	25-11-19	<u> </u>
69	Converting File Type	27-11-19	Lecture
70	Designing, Structured Programs	28-11-19	interspersed
71	Function in C	29-11-19	with
72	User Defined Functions	30-11-19	discussions
73	Inter-Function Communication	2-12-19	
74	Standard Functions	4-12-19	
75	Passing Array to Functions	5-12-19	
76	Passing Pointers to Functions	6-12-19	
77	Recursion	11-12-19	
78	Passing an Array to Function	16-12-19	
79	Tutorial	18-12-19	

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# TENTATIVE LESSON PLAN

~ .	ENGINEERING DRAWING	Course C	ode: ES	1103
Section : I	Date: 26/08/2019		Page No	:01 of 02
Revision No : 0		d	Approve	d By: HOI
Tools: Black b				
No. of Periods	TOPIC		Date	Mode of Delivery
UNIT-I IN	TRODUCTION TO DRAWING			
CO1: Able to d	lraw the polygons, curves.			
	ing Drawing", by N.D. Butt &V.M. F	anchal Chari	ot Publi	shing House
Anand. 49th Ed	lition – 2006.	machan, Char	ot I ubil	sming House
1	Introduction	27/0	08/2019	
2	Lettering and Dimensioning		08/2019	
3	Geometrical constructions		09/2019	
4	Parabola, Ellipse and Hyperbola		09/2019	Lecture
5	Polygons		09/2019	intersperse
6	Cycloids		09/2019	with
7	Involutes		09/2019	discussion
8	Vernier scales		09/2019	albeaton)
9	Plain scales, diagonal scale		09/2019	
UNIT-II IN	TRODUCTION TO ORTHOGRAPH			
2 <sup>nd</sup> Edition – 20	ing Drawing", by Agarwal & Agarwa 015.	l, Tata McGra	w Hill P	ublishers,
$2^{n}$ Edition – 20	015.		w Hill P	ublishers,
2 <sup>nd</sup> Edition – 20 10	Projections of points in various quadra	nts 28/0	9/2019	
$2^{nd}$ Edition – 20	Projections of points in various quadra Projections of lines, lines parallel eithe	nts 28/0		Lecture
2 <sup>nd</sup> Edition – 20 10 11	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes	nts 28/0 r of the 01/1	09/2019	Lecture intersperse
2 <sup>nd</sup> Edition – 20 10 11	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths,	nts 28/0 r of the 01/1	09/2019	Lecture intersperse with
2 <sup>nd</sup> Edition – 20 10 11 12 13	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces.	nts 28/0 r of the 01/1	09/2019	Lecture intersperse with
2 <sup>nd</sup> Edition – 20 10 11  12 13 UNIT-III P	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces.  ROJECTIONS OF PLANES	nts 28/0 r of the 01/1 15/1 16/1	09/2019 0/2019 0/2019 0/2019	Lecture intersperse with discussions
10 11 12 13 UNIT-III P CO3: Able to d	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to	nts 28/0 r of the 01/1 15/1 16/1 both the plan	09/2019 0/2019 0/2019 0/2019 es and it	Lecture interspersed with discussions traces.
2" Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to	nts 28/0 r of the 01/1 15/1 16/1 both the plan	09/2019 0/2019 0/2019 0/2019 es and it	Lecture intersperse with discussions traces.
2 <sup>m</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d ΓΒ: "Engineering Edition – 2015.	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to the projections of lines inclined to the projections, by Agarwal & Agarwal,	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGray	09/2019 0/2019 0/2019 0/2019 es and it	Lecture intersperse with discussions traces.
2" Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal. Projection of plane (parallel to one plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGray	09/2019 0/2019 0/2019 0/2019 es and its	Lecture intersperse with discussions traces.
2 <sup>nd</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d ΓΒ: "Engineerin Edition – 2015. 14	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal.  Projection of plane (parallel to one plan perpendicular to other plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav	09/2019 0/2019 0/2019 0/2019 es and it	Lecture intersperse with discussions traces.
2 <sup>m</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d ΓΒ: "Engineering Edition – 2015.	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ng Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plan perpendicular to other plane) Projection of plane (parallel to one plan perpendicular to other plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav	09/2019 0/2019 0/2019 0/2019 es and its	Lecture intersperse with discussions traces.  ablishers, 2 <sup>n</sup> Lecture
2" Edition - 20 10 11  12 13  UNIT-III P CO3: Able to d IB: "Engineerin Edition - 2015. 14	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal. Projection of plane (parallel to one plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav	09/2019 0/2019 0/2019 0/2019 es and its v Hill Pu	Lecture intersperse with discussions traces.  blishers, 2 <sup>n</sup> Lecture interspersed
10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerin Edition – 2015. 14  15	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plan perpendicular to other plane) Projection of plane (parallel to one plan inclined to other plane) Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav ne and 19/1 ne and 29/1 ane) 30/1	09/2019 0/2019 0/2019 0/2019 es and its v Hill Pu 0/2019	Lecture intersperse with discussions traces.  ablishers, 2 <sup>n</sup> Lecture intersperse with
2 <sup>rd</sup> Edition - 20 10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerin Edition - 2015. 14	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plan perpendicular to other plane) Projection of plane (parallel to one plan inclined to other plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGray ne and 19/1 ne and 29/1 ane) 30/1	09/2019 0/2019 0/2019 0/2019 es and it: v Hill Pu 0/2019 0/2019	Lecture intersperse with discussions traces.  ablishers, 2 <sup>n</sup> Lecture intersperse with
2 <sup>nd</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerii Edition – 2015. 14  15  16 17	Projections of points in various quadra Projections of lines, lines parallel eithe reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plan perpendicular to other plane) Projection of plane (parallel to one plan inclined to other plane) Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGray ne and 19/1 ne and 29/1 ane) 30/1	09/2019 0/2019 0/2019 0/2019 es and its v Hill Pu 0/2019	Lecture intersperse with discussions traces.  ablishers, 2 <sup>n</sup> Lecture intersperse with
2 <sup>m</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d ΓΒ: "Engineerin Edition – 2015. 14  15  16 17  UNIT-IV PI	Projections of points in various quadra Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces.  PROJECTIONS OF PLANES  raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal,  Projection of plane (parallel to one plant perpendicular to other plane)  Projection of plane (parallel to one plant inclined to other plane)  Projection of plane (inclined to both plane)  Projection of plane (inclined to both plane)  Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav ne and 19/1 ne and 29/1 ane) 30/1 ane) 06/1	09/2019 0/2019 0/2019 0/2019 es and its v Hill Put 0/2019 0/2019 0/2019 1/2019	Lecture intersperse with discussions traces.  Lecture intersperse with discussions
2 <sup>nd</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d ΓΒ: "Engineerin Edition – 2015. 14  15  16 17  UNIT-IV PI	Projections of points in various quadra Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal. Projection of plane (parallel to one plant perpendicular to other plane) Projection of plane (parallel to one plant inclined to other plane) Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav ne and 19/1 ne and 29/1 ane) 30/1 ane) 06/1	09/2019 0/2019 0/2019 0/2019 es and its v Hill Put 0/2019 0/2019 0/2019 1/2019	Lecture intersperse with discussions traces.  Lecture intersperse with discussions
2 <sup>nd</sup> Edition - 20 10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerin Edition - 2015. 14  15  16 17  UNIT-IV PI CO4: Able to ice to both the plan	Projections of points in various quadra Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plant perpendicular to other plane) Projection of plane (parallel to one plant inclined to other plane) Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav ne and 19/1 ne and 29/1 ane) 30/1 ane) 06/1 ne projections	09/2019 0/2019 0/2019 es and its w Hill Pu 0/2019 0/2019 0/2019 1/2019 of the pl	Lecture intersperse with discussions traces.  blishers, 2 <sup>n</sup> Lecture interspersed with discussions ane inclined
2 <sup>nd</sup> Edition – 20 10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerin Edition – 2015. 14  15  16 17  UNIT-IV PI CO4: Able to ice to both the plan FB: "Engineerin	Projections of points in various quadra Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal. Projection of plane (parallel to one plant perpendicular to other plane) Projection of plane (parallel to one plant inclined to other plane) Projection of plane (inclined to both plane)	nts 28/0 r of the 01/1 15/1 16/1 both the plan Tata McGrav ne and 19/1 ne and 29/1 ane) 30/1 ane) 06/1 ne projections	09/2019 0/2019 0/2019 es and its w Hill Pu 0/2019 0/2019 0/2019 1/2019 of the pl	Lecture intersperse with discussions traces.  blishers, 2 <sup>n</sup> Lecture interspersed with discussions ane inclined
2" Edition - 20 10 11  12 13  UNIT-III P CO3: Able to d FB: "Engineerin Edition - 2015. 14  15  16 17  UNIT-IV PI CO4: Able to ice to both the plan	Projections of points in various quadra Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined to ang Drawing", by Agarwal & Agarwal, Projection of plane (parallel to one plant perpendicular to other plane) Projection of plane (parallel to one plant inclined to other plane) Projection of plane (inclined to both plane)	nts	09/2019 0/2019 0/2019 es and its w Hill Pu 0/2019 0/2019 0/2019 1/2019 of the pl	Lecture intersperse with discussions traces.  blishers, 2 <sup>n</sup> Lecture interspersed with discussions are inclined

19	Prisms, Pyramids	19/11/2019	interspersed
20	Cones with the axis inclined to both the planes	20/11/2019	with
21	Cylinders with the axis inclined to both the planes	26/11/2019	discussions

UNIT-V Conversion of isometric views to orthographic views

CO5: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

22	Isometric views to orthographic views	27/11/2019	
23	Orthographic views to isometric views.	03/12/2019	Lecture
24	Computer Aided Design	04/12/2019	interspersed
- 25	Drawing practice using Auto CAD	10/12/2019	with
26	Creating 2D&3D drawings	11/12/2019	discussions

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Date: 26 8 19

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Signature of HOD Date: レポター

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## TENTATIVE LESSON PLAN

	ENGINEERING DRAWING	Course	Code: ES	81103
Section : I	Date: 26/08/2019		Page No	:01 of 02
Revision No : (		ısad	Approve	ed By : HO
Tools: Black b				
No. of Periods	TOPIC		Date	Mode of Delivery
	TRODUCTION TO DRAWING			
CO1: Able to	lraw the polygons, curves.			
ΓB: "Engineer	ing Drawing", by N.D. Butt &V.M.	Panchal, Cha	riot Publi	shing Hous
Anand. 49th Ed	lition – 2006.		2100 2 4011	shing Hous
1	Introduction	30	0/08/2019	
2	Lettering and Dimensioning		5/09/2019	
3	Geometrical constructions		5/09/2019	1
4	Parabola, Ellipse and Hyperbola		2/09/2019	Lecture
5	Polygons		3/09/2019	intersperse
6	Cycloids		0/09/2019	with
7	Involutes		0/09/2019	discussion
8	Vernier scales		5/09/2019	
. 9	Plain scales, diagonal scale		7/09/2019	
UNIT-II II	TRODUCTION TO ORTHOGRAI	PHIC PROJEC	CTIONS	
TB: "Engineer 2 <sup>nd</sup> Edition – 20		val, Tata McGı	llel to one	
TB: "Engineer 2 <sup>nd</sup> Edition – 20	015.	val, Tata McGı	raw. Hill P	
TB: "Engineer	Projections of points in various quad	val, Tata McGi	raw Hill P	
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10	Projections of points in various quad Projections of lines, lines parallel eitle	val, Tata McGi	raw. Hill P	ublishers,
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10	Projections of points in various quad Projections of lines, lines parallel eitlereference planes	rants 10 her of the 11	raw Hill P /10/2019 /10/2019	Lecture intersperse with
TB: "Engineer 2 <sup>nd</sup> Edition – 20 10 11	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths,	rants 10 her of the 11	raw. Hill P /10/2019 /10/2019 /10/2019	Lecture intersperse with
TB: "Engineer 2" Edition – 20 10 11 12 13	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces.	rants 10 her of the 11	raw Hill P /10/2019 /10/2019	Lecture intersperse with
TB: "Engineer 2nd Edition – 20 10 11 12 12 UNIT-III P	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. ROJECTIONS OF PLANES	rants 10 her of the 11 17	/10/2019 /10/2019 /10/2019 /10/2019 /10/2019	Lecture intersperse with discussion
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10 11  12 13 UNIT-III P CO3: Able to d TB: "Engineering the state of t	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. ROJECTIONS OF PLANES	rants 10 her of the 11 17 18 to both the pla	/10/2019 /10/2019 /10/2019 /10/2019 nes and its	Lecture intersperse with discussions
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TB: "Engineer 2nd Edition – 20 10 11  12 - 13  UNIT-III P CO3: Able to d CB: "Engineering Edition – 2015.	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclineding Drawing", by Agarwal & Agarwal Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (parallel to one plane)	rants 10 her of the 11 17 18 to both the pla al, Tata McGra	/10/2019 /10/2019 /10/2019 /10/2019 nes and its	Lecture intersperse with discussions traces.  ablishers, 2 <sup>n</sup> Lecture intersperse intersperse
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TB: "Engineer 2nd Edition – 20 10 11  12 - 13  UNIT-III P CO3: Able to d CB: "Engineeri Edition – 2015. 14	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined and Drawing", by Agarwal & Agarwal Projection of plane (parallel to one plane) Projection of plane (inclined to both projection of plane)	rants 10 her of the 11  to both the pla al, Tata McGra ane and 31 ane and 01 plane) 07	/10/2019 /10/2019 /10/2019 /10/2019 nes and its aw Hill Pu /10/2019 /11/2019	Lecture intersperse with discussions traces.  Ablishers, 2 <sup>n</sup> Lecture intersperse with
TB: "Engineer 2nd Edition – 20 10 11 12 13 UNIT-III PCO3: Able to dCB: "Engineerin Edition – 2015. 14 15 16 17	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces.  ROJECTIONS OF PLANES  raw the projections of lines inclined and Drawing", by Agarwal & Agarwal  Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (inclined to both projection of plane)	rants 10 her of the 11  to both the pla al, Tata McGra ane and 31 ane and 01 plane) 07	raw. Hill P. /10/2019 /10/2019 /10/2019 nes and its aw Hill Pu /10/2019	Lecture intersperse with discussions traces.  Ablishers, 2 <sup>n</sup> Lecture interspersed with
TB: "Engineer 2nd Edition – 20 10 11	Projections of points in various quad Projections of lines, lines parallel eith reference planes Determination of true lengths, Angle of inclination and traces.  ROJECTIONS OF PLANES raw the projections of lines inclined and Drawing", by Agarwal & Agarwa  Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (inclined to both projection of plane (inclined	rants 10 her of the 11  17 18  to both the pla al, Tata McGra lane and 31 ane and 01 olane) 07 olane) 08	/10/2019 /10/2019 /10/2019 /10/2019 nes and its aw Hill Pu /10/2019 /11/2019 /11/2019 /11/2019	Lecture intersperse with discussions traces.  Lecture intersperse with discussions traces.
TB: "Engineer 2nd Edition – 20 10 11 12 13 UNIT-III PCO3: Able to dCB: "Engineeri Edition – 2015. 14 15 16 17 UNIT-IV PICO4: Able to ic	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces. PROJECTIONS OF PLANES raw the projections of lines inclined and Drawing", by Agarwal & Agarwal Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (inclined to both projection of plane)	rants 10 her of the 11  17 18  to both the pla al, Tata McGra lane and 31 ane and 01 olane) 07 olane) 08	/10/2019 /10/2019 /10/2019 /10/2019 nes and its aw Hill Pu /10/2019 /11/2019 /11/2019 /11/2019	Lecture intersperse with discussions traces.  Lecture intersperse with discussions traces.
TB: "Engineer 2nd Edition – 20 10 11  12 13 UNIT-III P CO3: Able to d B: "Engineer in Edition – 2015. 14  15  16 17 UNIT-IV PI CO4: Able to ico both the plan	Projections of points in various quad Projections of lines, lines parallel either reference planes Determination of true lengths, Angle of inclination and traces.  ROJECTIONS OF PLANES raw the projections of lines inclined and Drawing", by Agarwal & Agarwal Projection of plane (parallel to one plane) Projection of plane (parallel to one plane) Projection of plane (inclined to both projection of plane)	rants 10 her of the 11  17 18  to both the pla al, Tata McGra lane and 31 lane and 01 blane) 07 blane) 08  the projection	/10/2019 /10/2019 /10/2019 /10/2019 nes and its aw Hill Pu /10/2019 /11/2019 /11/2019 /s of the pl	Lecture intersperse with discussions traces.  Lecture intersperse with discussions with discussions are inclined
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19	Prisms, Pyramids	15/11/2019	interspersed
20	Cones with the axis inclined to both the planes	21/11/2019	with
	Cylinders with the axis inclined to both the	22/11/2019	discussions
	planes		

UNIT-V Conversion of isometric views to orthographic views

CO5: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd Edition - 2015.

22	Isometric views to orthographic views	28/11/2019	T
23	Orthographic views to isometric views.	29/11/2019	Lecture
24	Computer Aided Design	06/12/2019	interspersed
25	Drawing practice using Auto CAD	12/12/2019	with
26	Creating 2D&3D drawings	13/12/2019	discussions

Signature of Faculty
Date: 26/8/19

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Paulections of Solids



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### **COURSE STRUCTURE - R19**

#### I Year - I SEMESTER

S. No	Course Code	Subjects	, <b>L</b>	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1112	Fundamentals of Computer Science	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1105	IT Workshop	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
		Total Credits	16	0	12	19

#### I Year - II SEMESTER

S. No	Course Code	Subjects	L.	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
		Total Credits	18	1	10	21

# TENTATIVE LESSON PLAN: R19HS1101

Course Title: E Section : CSE		Page N	o:01 of 03
Revision No : 0			red By : HOD
Tools: Black bo		13-66-3	
No. of Periods	TOPIC	Date	Mode of Delivery
CO1: Facilitate English spoken	wer full of happiness, Deliverance by Premcha effective listening skills for better comprehens by native speakers English, Maruthi Publications, —The Individual So	ion of academic	
1	A Drawer full of happiness	26-8-19	
2	Listening: Short Audio Texts	28-8-19	
3	Speaking: Asking and answering questions	30-8-19	Lecture
4	Reading: Skimming and Scanning	3-9-19	interspersed
5	Reading for Writing: Paragraph writing	3-9-19	discussions
6	Vocabulary: Technical Vocabulary	4-9-19	
7	Grammar: Content words and function words	4-9-19	] ,
8	The Deliverance : Munshi Prem Chand	5-9-19	
9	Long Answers	6-9-19	_
10	Short Answers	9-9-19	
CO2: Focus on and authentic n TB: Infotech Eng	lish, Maruthi Publications, —The Individual Societ	sion of various a	cademic texts
12	Nehru's letter to his daughter Indira on her birthday	11-9-19	
13	Listening: Answering a series of questions	12-9-19	
14	Speaking: Discussion in pairs	13-9-19	
15	Reading: Identifying sequence of ideas	16-9-19	Lecture interspersed

			discussions
17	Vocabulary: Technical vocabulary	19-9-19	
18	Grammar: Use of articles	20-9-19	1
19 :	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	1
21	Short Answers	25-9-19	

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

TB: Infotech English, Maruthi Publications, —The Individual Society||, Pearson Publications Stephen Hawking-Positivity 'Benchmark 27-9-19 25 Listening: Listening for global comprehension 30-9-19 Lecture interspersed 26 Speaking: Discussing specific topics in pairs 10-10-19 with discussions 27 Reading: Reading a text in detail 14-10-19 28 Reading for Writing: Summarizing 15-10-19 29 Vocabulary: Technical vocabulary 16-10-19 30 Grammar: Verbs - tenses; subject-verb agreement 4-11-19 31 Shakespeare's Sister by Virginia Woolf 7-11-19 32 Long Answers 8-11-19

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications. —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture interspersed
35	Speaking: Role plays for practice of conversational	18-11-19	with

A CONTROL OF THE CONT	English	The second secon	9
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

Stay Hungry-Stay foolish 4-12-19 Lecture 42 Listening Identifying key terms 5-12-19 interspersed with 43 Speaking: Formal oral presentations 6-12-19 discussions 44 Reading: Reading for comprehension 9-12-19

45 Reading for Writing: Writing academic proposals 12-12-19 46 Vocabulary: Technical vocabulary 13-12-19 47 Grammar: Editing short texts 16-12-19

Signature of HOD

PRINCIPAL

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# TENTATIVE LESSON PLAN: R19HS1101

Course Title: E				
				No: 01 of 03
Revision No : 0		Prepared By: Dr. A.Padmaja	Appro	ved By: HOD
Tools: Black be	oard			
No. of Periods		TOPIC	Date	Mode of Delivery
		ll of happiness, Deliverance by Premchan		
		ve listening skills for better comprehension	on of academi	c lectures and
English spoken				
		Maruthi Publications, —The Individual Soci	etyl, Pearson I	Publications
1	A Dra	awer full of happiness	26-8-19	
2	Lister	ning : Short Audio Texts	28-8-19	
3	Speak	ing: Asking and answering questions	30-8-19	Lecture
4	Readi	ng: Skimming and Scanning	3-9-19	interspersed
5	Reading for Writing: Paragraph writing  Vocabulary: Technical Vocabulary		3-9-19	discussions
6			4-9-19	
7	Grammar: Content words and function words		4-9-19	
8	The D	eliverance: Munshi Prem Chand	5-9-19	
9	Long	Answers	6-9-19	
10	Short	Answers	9-9-19	
CO2: Focus on and authentic n	approp nateria	to his daughter Indira on her birthday, Boson oriate reading strategies for comprehensions Is oruthi Publications, —The Individual Society	on of various	academic texts
12		's letter to his daughter Indira on her	11-9-19	
13	Listen	ing: Answering a series of questions	12-9-19	
14	Speak	ing: Discussion in pairs	13-9-19	
15	Readi	ng: Identifying sequence of ideas	16-9-19	Lecture interspersed

			discussion
17	Vocabulary: Technical vocabulary	19-9-19	
18	Grammar: Use of articles	20-9-19	
19	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	
21	Short Answers	25-9-19	

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

24	Stephen Hawking-Positivity 'Benchmark	27-9-19	
25	Listening: Listening for global comprehension	30-9-19	Lecture
26	Speaking: Discussing specific topics in pairs	10-10-19	with
27	Reading: Reading a text in detail	14-10-19	discussions
28	Reading for Writing: Summarizing	15-10-19	
29	Vocabulary: Technical vocabulary	16-10-19	
30	Grammar: Verbs - tenses; subject-verb agreement	4-11-19	
31	Shakespeare's Sister by Virginia Woolf	7-11-19	
32	Long Answers	8-11-19	

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture interspersed
35	Speaking: Role plays for practice of conversational	18-11-19	with

The state of the s	English	the old the profits of the control of the decident of the control	discussions
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

41	nglish, Maruthi Publications, —The Individual Societ Stay Hungry-Stay foolish	4-12-19	The second secon
	· · · · · · · · · · · · · · · · · · ·		
42	Listening Identifying key terms	5-12-19	Lecture intersperse
43	Speaking: Formal oral presentations	6-12-19	with discussion
44	Reading: Reading for comprehension	9-12-19	
45	Reading for Writing: Writing academic proposals	12-12-19	1
46	Vocabulary: Technical vocabulary	13-12-19	
47	Grammar: Editing short texts	16-12-19	

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# TENTATIVE LESSON PLAN: R19BS1101

Section : CS	E – A Date: 26-08-2019	Page No	: 01 of 02
Revision No:	00 Prepared By : S.SUMAN		ed By : HOD
Tools: Black l		1	
No. of Periods	TOPIC	Date	Mode of
			Delivery
CO1:Utilize m TB:" Enginee	UENCES, SERIES AND MEAN VALUE THE nean value theorems to real life problems ring Mathematics", Dr. T.K.V.Iyengar; S.Chan		1
1	SEQUENCES AND SERIES:		
2	Convergence and Divergence		
2	Ratio test		
3	Comparison test		
4	Integral test	From:	
5 6	Cauchy 's root test	26-08-2019	Lecture
	Alternating series	To:	interspersed
7 8	Leibnitz 's rule	14-09-2019	with discussions
8	Mean Value Theorems:	14-09-2019	discussions
9 .	Rolle 's Theorem		
10	Lagrange 's mean value theorem		
11	Cauchy 's mean value theorem		
11	Taylor 's and Maclaurin 's theorems with remainders		
UNIT-II DI	FFERENTIAL EQUATIONS OF FIRST ORDER	AND EIDER DEEC	IDDE.
	e differential equations related to various engin	AND FIRST DEE(	FREE
	ng Mathematics", Dr. T.K.V.Iyengar; S.Chand		
12	Introduction: Differential Equations of First ord		Г
	first degree	ici	
13	Exact Equations – Conditions of Exactness		
14	Equations reducible to Exact		
15	Non Exact Differential Equations	From:	
16	Linear Differential Equations of first order	16-09-2019	
17	Bernouli Equation		Lecture
18	Equations reducible to linear	To:	interspersed
19	Orthogonal Trajectories - Cartesian		with
20	Orthogonal Trajectories - Polar	05-10-2019	discussions
21	Newton's law of cooling		
22	Natural growth or decay		
	Electrical Circuits		1

UNIT-III: LINEAR DIFFERENTIAL EQUATIONS OF HIGHER ORDER	
CO3: Solve the differential equations related to various engineering fields	
TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications	

24	Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x)$ , $Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \ or \ \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	&	with
29	Q(x) = xV(x)	From:	discussions
30	$Q(x) = x^n \sin ax \ or \cos ax$	28-10-2019	
31	Method of variation of parameters	To:	
32	Applications: LCR Circuit	09-11-2019	

#### UNIT-IV PARTIAL DIFFERENTIATION

CO4: Familirize with functions of several variables which is useful in optimization TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	From:	
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series		interspersed
37	Jacobians, formulae	To:	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		

### **UNIT-V: MULTIPLE INTEGRALS**

CO5: Apply double integration techniques in evaluating areas bounded by region TB: "Engineering Mathematics", Dr. T.K.V.Iyengar; S.Chand publications

41	Introduction	From:	
42	Double integrals	02-12-2019.	
43	Triple integrals	To:	Lecture interspersed
44	Change of order of integration	10.	with
45	Change of variable	21-12-2019	discussions
46	Applications: Finding areas		
47	Finding volumes		

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SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

# TENTATIVE LESSON PLAN: R19BS1101

Course Title: M Section : CSE		Date: 26-08-2019	Раде	No: 01 of 02
Revision No : 0		Prepared By: B.V.RAMAKRISHNA RA		oved By : HOD
Tools: Black bo		Trepared by . B. V. RAMARINGHINA RA	to Appl	oved by . HOD
No. of Periods		TOPIC	Date	Mode of
				Delivery
CO1:utilize me TB:" Engineeri	an valu ng Mat	S, SERIES AND MEAN VALUE THEOR te theorems to real life problems thematics", Dr. T.K.V.Iyengar; S.Chand p		
1		JENCES AND SERIES:		
		ergence and Divergence		
2	Ratio			
3		arison test		
4		al test	From:	
5		ny 's root test	26-08-201	
6		nating series	_	interspersed
7		itz 's rule	To:	with
8	The state of the s	Value Theorems:	14-09-20	19 discussions
		's Theorem		
9 .		nge 's mean value theorem		
10		y 's mean value theorem		
11		r 's and Maclaurin 's theorems with		
	remain			
		TIAL EQUATIONS OF FIRST ORDER AND		EEGREE
		ntial equations related to various engineer		
		ematics", Dr. T.K.V.Iyengar; S.Chand pu	blications	
12		uction: Differential Equations of First order		
12	first d			
13		Equations – Conditions of Exactness		
14		ions reducible to Exact	_	
15		Exact Differential Equations	From:	0
16		Differential Equations of first order	16-09-201	
17		uli Equation	Т.,	Lecture
18		ions reducible to linear	To:	interspersed
19		gonal Trajectories - Cartesian	05-10-20	with
20		gonal Trajectories - Polar		discussions discussions
21	Newto	on's law of cooling		
22	Natura	al growth or decay		
23		ical Circuits		

	NEAR DIFFERENTIAL EQUATIONS OF HIC	CUED ODDED	
	e differential equations related to various engine		
	·		
24	ring Mathematics", Dr. T.K.V.Iyengar; S.Chan Linear DE of constant coefficients	From:	
25	Solutions of $f(D) = Q(x)$ ; $Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \text{ or } \cos ax$	To:	Lecture
27	$Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	_ &	with
29	Q(x) = xV(x)	From:	discussions
30	$Q(x) = x^n \sin ax \ or \ \cos ax$	28-10-2019 To:	
31	Method of variation of parameters	10.	
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV F	PARTIAL DIFFERENTIATION		
	ze with functions of several variables which is u	seful in optimiza	tion
	ing Mathematics", Dr. T.K.V.Iyengar; S.Chand		
33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	From:	
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series	To:	interspersed
37	Jacobians, formulae	10: .	with
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
UNIT-V: MUL	TIPLE INTEGRALS		
	ouble integration techniques in evaluating areas		ion
TB:" Engineer	ing Mathematics", Dr. T.K.V.Iyengar; S.Chand	d publications	
41	Introduction	From:	
42	Double integrals	02-12-2019.	Lecture
43	Triple integrals	To:	interspersed
44-	Change of order of integration		with
45	Change of variable	21-12-2019	discussions

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46 47 Applications: Finding areas

Finding volumes

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# TENTATIVE LESSON PLAN APPLIED CHEMISTRY: BS1106

Section : CS		Page No	Page No: 1-3		
Revision No :	Prepared By : B.SOWJANYA	Approved By: HOD			
Tools:			- Dj : HOD		
No. of Periods:73	TOPIC	Date	Mode of Delivery		
Unit -II :ELE	CTROCHEMICAL CELLS AND CORROSION				
CO-2: Outline	the basic for the construction of electrochemical	cells batteries	and firel colle		
onderstand the	mechanism of corrosion and how it can be preve	ented	and fact cens.		
Engineering Ch	emistry by Jain and Jain; Dhanpat Rai Publicating	(Co.)	· — · — · — ·		
1	Unit -II :ELECTROCHEMICAL CELLS	28-8-2019			
2	Single electrode potentia.	28-8-2019			
3	Electrochemical series and uses of series	30-8-2019			
4	standard hydrogen electrode, calomel electrode	31-8-2019			
5	concentration cell-	3-9-2019			
6	construction of glass electrode	4-9-2019			
7	Batteries: Dry cell, Ni-Cd cells,	6-9-2019			
8	NiMetal hydride cells, Li ion battery, zinc air cells	7-9-2019	Lecture		
9	Fuel cells: H2-O2, CH3OH-O2,	9-9-2019	interspersed		
10	phosphoric acid, molten carbonate	9-9-2019	with		
11	Corrosion:-Definition-theories of corrosion	11-9-2019	discussions		
12	galvanic corrosion, differential aeration corrosion, stress corrosion,	13-9-2019			
13	waterline corrosion-passivity of metals- galvanicseries	14-9-2019			
14	Factors influencing rate of corrosion-corrosion control	16-9-2019			
15	Protective coatings: Surface preparation, cathodic	16-9-2019			
16	Anodic coatings, electroplating, electroless plating (nickel).	18-9-2019			
17	Paints (constituents, functions, special paints).	19-9-2019			
	Unit – I: POLYMER TECHNOLO	OGY			
O-1: Important	ce of usage of plastics in household appliances astomotive industries.	nd composites ()	FRP) in		
ngineering Che	emistry by Jain and Jain; Dhanpat Rai Publicating	Co.)			
1	Polymerisation:- Introduction-methods of	17-9-2019			



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Department of Science and Humanities

2	physical and mechanical properties.	18-9-2019		
3	Plastics: Compounding-fabrication	20-9-2019		
-4	preparation, properties and applications of PVC,	21-92019	+	
5	polycarbonates and Bakelite-mention some examples of plastic.	23-9-2019	Lecture	
6	Materials used in electronic gadgets, recycling of e-plastic waste	24-9-2019	interspersed with discussions	
7	Elastomers:- Natural rubber-drawbacks- vulcanization	24-9-2019	discussions	
8	preparation, properties and applications of synthetic rubbers	25-9-2019		
9	(Buna S, thiokol and polyurethanes	25-9-2019		
1.0	Composite materials: Fiber reinforced plastics	26-9-2019		
11-7-	conductingpolymers-	27-9-2019		
12	Biodegradable polymersbiopolymers	27.0.2010		
13	Biomedical polymers	27-9-2019 28-9-2019		

# Unit - III: MATERIAL CHEMISTRY

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquiderystals.

1	(Engineering Chemistry by Jain and Jain; Dhanpat Part I: Non-elemental semiconducting materials	14-10-2019	1
2	Semiconductor devices (p-n junction diode as rectifier, junction transistor	14-10-2019	
3	Insulators & magnetic materials: electrical insulators	15-10-2019	
4	Ferro and ferri magnetism-Hall effect and its applications.	16-10-2019	
5	Part II: Nano materials:- Introduction-sol-gel method-	17-10-2019	Lecture interspersed
6	characterization by BET, SEM and TEM methods	17-10-2019	with
7	Applications of graphene-carbon nanotubes and fullerenes:	18-10-2019	discussions
8	Types, preparation and applications Liquid crystals	19-10-2019	
9	Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	2,6,6,8,-11- 2019	

UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

CO4: Outline the basics of computational chemistry and molecular switches. (Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)



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1	Computational chemistry: Introduction, Ab Initio studies Molecular switches	2-12-2019	
2.	characteristics of molecular motors and machines, Rotaxanes	2-12-2019	
3.	Catenanes as artificial molecular machines, prototypes	4-12-2019	
4.	linear motions in rotaxanes, an acid-base controlled molecular shuttle	6-12-2019	Lecture interspersed
5.	a molecular elevator,	7-12-2019	with
6.	an autonomous light-powered molecular motor	9,9,10,11,13- 12-2019	discussions
7.	Computational chemistry: Introduction, Ab Initio studies Molecular switches	13-12-2019	
8.	characteristics of molecular motors and machines,	13-12-2019	
	LINIT V. COSCERNO		

# UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES

CO-5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

1.	Part A: SPECTROSCOPIC TECHNIQUES  Electromagnetic spectrum-UV	8-11-2019	
2.	laws of absorption, instrumentation,	11-11-2019	1
3	Theory of electronic spectroscopy, Frank-condon principle	11-11-2019	Lecture
4.	chromophores and auxochromes, intensity shifts, applications	13-11-2019	interspersed with
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	16-11-2019	discussions
6.	Magnetic resonance imaging and CT scan (procedure & applications).	19-11-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	19-11-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	20-11-2019	
9.	hydropower, geothermal power,	22-12-2019	
10.	Tidal and wave power	23-12-2019	

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Department of Science and Humanities

Course Title: I			RY (BS1106)
Section : CSE		Page N	Vo: 1-3
Revision No:00	Prepared By : K.P.T.VIJAYA		ved By: HOD
	BHASKAR	rippro	ved By : HOD
	pard and chalk.		
No. of	TOPIC	Date	Mode of
Periods: 76			Delivery
τ	Init -II :ELECTROCHEMICAL CELLS AND	CORROSION	Benvery
CO2: Outline th	e basics for the construction of electrochemical	cells bottomics	
uelcells. Under	stand the mechanism of corrosion and how it c	cens, batteries	and
(Engineering Ch	emistry by Jain and Jain; Dhanpat Rai Publicatin	an be prevent	ed.
1	Unit -II :ELECTROCHEMICAL CELLS		1
2	Single electrode potentia.	26-8-2019	
3	Electrochemical series and uses of series	26-8-2019	
4	standard hydrogen electrode, calomel electrode	27-8-2019	
5	concentration cell-	28-8-2019	
6	construction of glass electrode	30-8-2019	
.7	Batteries: Dry cell, Ni-Cd cells,	3-9-2019	1
8	Ni Metal hydride cells, Li ion battery, zinc air cells	4-9-2019	J
9	Fuel cells: H2-O2, CH3OH-O2,	5-9-2019	Lecture
	phosphoric acid, molten carbonate	6-9-2019	interspersed with
	Corrosion:-Definition-theories of corrosion	9-9-2019	discussions
	galvanic corresion differential partial	9-9-2019	discussions
	galvanic corrosion, differential aeration corrosion, stress corrosion,	9-9-2019	
13	waterline corrosion-passivity of metals-galvanic series	11-9-2019	
14	Factors influencing rate of corrosion-corrosion	13-9-2019	
(	control	2019	
15	Protective coatings: Surface preparation, cathodic	16-9-2019	
16	Anodic coatings, electroplating, electroless plating (nickel).	17-9-2019-	
17 F	Paints (constituents, functions, special paints).	18-9-2019	
	Unit – I: POLYMER TECHNOLO	CV	
1: Importance	of usage of plastics in household appliances and	GY .	
ospace and auto	omotive industries.		
(Eng	ineering Chemistry by Jain and Jain; Dhanpat Ra	i Publicating (	(a)
1 P	olymerisation:- Introduction-methods of		20.)
р	olymerization	23-9-2019	



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3 4 5	Plastics: Compounding-fabrication preparation, properties and applications of PVC,	24-9-2019	
5			
5		1.23-9-2019	
	polycarbonates and Bakelite-mention some examples of plastic.	26-9-2019	Lecture interspersed
6	Materials used in electronic gadgets, recycling of e-plastic waste	26-9-2019	with discussions
7	Elastomers:- Natural rubber-drawbacks- vulcanization	26-9-2019	413043310113
8	preparation, properties and applications of synthetic rubbers	27-9-2019	
9	(Buna S, thiokol and polyurethanes	27-9-2019	
10	Composite materials: Fiber reinforced plastics	28-9-2019	
11	Conducting polymers-	30-9-2019	
12	Biodegradable polymers biopolymers	30-9-2019	
. 13	Biomedical polymers	11-10-2019	

## **UNIT III: MATERIAL CHEMISTRY**

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquidcrystals.

(Engineering Chemist	ry b	y Jain and Jain	Dhanpat	Rai Pub	licating Co )
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engineering chemistry by Jain and Jain; Dhanpat i	Rai Publicating	(Co.)
Part I: Non-elemental semiconducting materials	14-10-2019	
Semiconductor devices (p-n junction diode as rectifier, junction transistor		
Insulators & magnetic materials: electrical insulators	16-10-2019	
Ferro and ferri magnetism-Hall effect and its applications.	17-10-2019	
Part II: Nano materials:- Introduction-sol-gel method-	18-10-2019	Lecture interspersed
characterization by BET, SEM and TEM methods	24-10-2019	with
Applications of graphene-carbon nanotubes and fullerenes:	5-11-2019	discussions
Types, preparation and applications Liquid crystals	6-11-2019	
Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	7-11-2019	
	Part I: Non-elemental semiconducting materials  Semiconductor devices (p-n junction diode as rectifier, junction transistor  Insulators & magnetic materials: electrical insulators  Ferro and ferri magnetism-Hall effect and its applications.  Part II: Nano materials:- Introduction-sol-gel method-characterization by BET, SEM and TEM methods  Applications of graphene-carbon nanotubes and fullerenes:  Types, preparation and applications Liquid crystals  Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and	Semiconductor devices (p-n junction diode as rectifier, junction transistor  Insulators & magnetic materials: electrical insulators  Ferro and ferri magnetism-Hall effect and its applications.  Part II: Nano materials:- Introduction-sol-gel method-characterization by BET, SEM and TEM methods  Applications of graphene-carbon nanotubes and fullerenes:  Types, preparation and applications Liquid crystals  Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and

# UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

C04: Outline the basics of computational chemistry and molecular switches.

(Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)

	, , , , , , , , , , , , , , , , , , ,				
. 1	Computational chemistry: Introduction, Ab Initio	10-11-2019			
	studies Molecular switches				



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Department of Science and Humanities

Rotaxanes	12-11-2019 18-11-2019		A STATE OF THE STA
3. Catenanes as artificial molecular machines.			
prototypes	10 11 2010		
4. linear motions in rotaxanes, an acid-base controlled molecular shuttle	18-11-2019	Lecture	
5. a molecular elevator,	19-11-2019	interspersed	
6	20-11-2019	with discussions	
7	21-11-2019	discussions	
8. 2	22-11-2019		
characteristics of molecular motors and machines,			The Man of the second
		• • • • • • • • • • • • • • • • • • • •	

# UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES

CO5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced.

(Engineering Chemistry by Jain and Jain: Dhannat Rai Publicating Co.)

	bigineering chemistry by Jam and Jam; Dhanpat Rai	Publicating Co.)	
1.	Part A: SPECTROSCOPIC TECHNIQUES Electromagnetic spectrum-UV	29-11-2019	
2.	laws of absorption, instrumentation,	2-12-2019	1
3	Theory of electronic spectroscopy, Frank-condon principle	3-12-2019	Lecture
4.	chromophores and auxochromes, intensity shifts, applications	4-12-2019	interspersed with
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	5-12-2019	discussions
6.	Magnetic resonance imaging and CT scan (procedure & applications).	6-12-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	9-12-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	10-12-2019	
9.	hydropower, geothermal power,	11-12-2019 12-12-2019	
10.	Tidal and wave power	17-12-2019	

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### **TENTATIVE LESSON PLAN:R19ES1103**

Course Title: ENGINEERING DRAWING Course Code: R19ES1103			
Section : Sec I	Date: 8/2/2020	Page No: 01 of 02	
Revision No: 00	Prepared By : D.HARITHA B	BRAHMA Approved By: HOD	

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of
			Delivery

### UNIT-I INTRODUCTION TO DRAWING

CO1: Able to draw the polygons, curves and Able to draw the scales,

T TB: "Engineering Drawing", by N.D. Butt &V.M. Panchal, Chariot Publishing House, Anand. 49th Edition – 2006.

1	Introduction	30/08/19	
2	Lettering and Dimensioning	31/08/19	
3	Geometrical constructions	06/09/19	
4	Polygons	13/09/19	Lecture
5	Parabola, Ellipse and Hyperbola	20/09/19	interspersed
6	Cycloids	21/09/19	with
7	Involutes	26/09/19	discussions
8	Vernier scales	27/09/19	
9	Plain scales, diagonal scale	28/09/19	

### UNIT-II INTRODUCTION TO ORTHOGRAPHIC PROJECTIONS

CO2: parallel to one plane and to other plan and Able to draw the projections of lines inclined to both the planes and its traces.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

10	Projections of points in various quadrants	11/10/19	<b>.</b>
11	Projections of lines, lines parallel either of the reference planes	15/10/19	Lecture
12	Projection of lines inclined to both planes	18/10/19	with
13	True length determination	19/10/19	discussions
14	Determination of true angle of inclination	19/10/19	
15	Traces (inclined to both planes)	02/11/19	

### UNIT-III PROJECTIONS OF PLANES

CO3: Able to identify the different plans and draw the projections of the plane inclined to both the planes.

T TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

	16		Projection of plane (parallel to one plane and perpendicular to other plane)	08/11/19	Lecture
٠,٠,٠	17	1 1	Projection of plane (parallel to one plane and inclined to other plane)	15/11/19	interspersed with
o both	plane) 18	16/	Projection of plane (inclined to both plane)	16/11/19	discussions
o both	plane) 19	23/	Projection of plane (inclined to both plane)	23/11/19	

### UNIT-IV PROJECTIONS OF SOLIDS

CO4: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

20	Projection of solids (Prisms, Cylinder)	29/11/19	Lecture
21	Projection of solids (Prisms, Cylinder)	30/11/19	interspersed
22	Projection of solids (Pyramids, cone)	06/12/19	with
23	Projection of solids (Pyramids, cone)	07/12/19	discussions

### UNIT-V ISOMETRIC PROJECTIONS

Prefection of page (

CO5: Able to represent and convert the isometric view to orthographic view and orthographic view to isometric view

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

24	Conversion of isometric views to orthographic views	10/12/19	
25	Conversion of isometric views to orthographic views	20/12/19	Lecture
26	Conversion of isometric views to orthographic views	21/12/19	interspersed with discussions
27	Conversion of orthographic views to isometric views	21/12/19	

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Signature of HOD

inclined to other plane)

Profection of plane (the

Projection of plana inclined t

Date: 29/2/202

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### **TENTATIVE LESSON PLAN:R19ES1103**

Course Title: ENGI	NEERING DRAWING	Course Code: R19ES1103	
Section : Sec II	Date: 8/2/2020		Page No: 01 of 02
Revision No: 00	Prepared By: D.HARITHA	A BRAHMA	Approved By: HOD

Tools: Black board, PPTs

No. of Periods	TOPIC	Date	Mode of
			Delivery

### UNIT-I INTRODUCTION TO DRAWING

CO1: Able to draw the polygons, curves and Able to draw the scales

T TB: "Engineering Drawing", by N.D. Butt &V.M. Panchal, Chariot Publishing House, Anand. 49th Edition – 2006.

1	Introduction	28/08/19	
2	Lettering and Dimensioning	07/09/19	
3	Geometrical constructions	09/09/19	
4	Parabola, Ellipse and Hyperbola	11/09/19	Lecture
5	Polygons	16/09/19	interspersed
6	Cycloids	18/09/19	with
7	Involutes	23/09/19	discussions
8	Vernier scales	25,30/09/19	
9	Plain scales, diagonal scale	14,16/09/19	

### UNIT-II INTRODUCTION TO ORTHOGRAPHIC PROJECTIONS

CO2: parallel to one plane and to other plan and Able to draw the projections of lines inclined to both the planes and its traces.

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

10	Projections of points in various quadrants	04/11/19	ļ.
11	Projections of lines, lines parallel either of the reference planes	06/11/19	Lecture
12	Projection of lines inclined to both planes	11/11/19	with
13	True length determination	13/11/19	discussions
14	Determination of true angle of inclination	18/11/19	
15 .	Traces (inclined to both planes)	18/11/19	

### UNIT-III PROJECTIONS OF PLANES

CO3: Able to identify the different plans and draw the projections of the plane inclined to both the planes.

T TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2<sup>nd</sup> Edition – 2015.

	16	Projection of plane (parallel to one plane and perpendicular to other plane)	20/11/19	Lecture
	17	Projection of plane (parallel to one plane and inclined to other plane)	20/11/19	interspersed with
th	olara).18 25	Projection of plane (inclined to both plane)	25/11/19	discussions
	plane 19 27	Projection of plane (inclined to both plane)	27/11/19	mentakan jar

### UNIT-IV PROJECTIONS OF SOLIDS

CO4: Able to identify the basic solids and draw the projections of the solids inclined to one of the planes

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd Edition - 2015.

20	Projection of solids (Prisms, Cylinder)	02/12/19	Lecture
21	Projection of solids (Prisms, Cylinder)	04/12/19	interspersed
22	Projection of solids (Pyramids, cone)	09/12/19	with
23	Projection of solids (Pyramids, cone)	10/12/19	discussions

#### **UNIT-V** ISOMETRIC PROJECTIONS

CO5: Able to represent and convert the isometric view to orthographic view and orthographic view to isometric view

TB: "Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd **Edition – 2015.** 

24	Conversion of isometric views to orthographic views	12/12/19	
25	Conversion of isometric views to orthographic views	12/12/19	Lecture
26	Conversion of isometric views to orthographic views	16/12/19	interspersed with
27	Conversion of orthographic views to isometric views	16/12/19	discussions

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Date: 29/2/2020

# SRK INSTITUTE OF TECHNOLOGY VIJAYAWADA

### S.R.K INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF SCIENCE AND HUMANITIES

### **Tentative Lesson Plan**

Course Title: FUNDAMENTALS OF COMPUTER SCIENCE						
Section: CSE-A	Date: 04/11/2020	Sub Code: R19ES1112				
Revision No: 00	Prepared By: M.V.SUMANTH	Approved By: HOD				

Tools: Black board, PPTs, and Online

S. No.	Торіс	Date	Mode of Delivery	
UNIT-I	INTRODUCTION COMPUTER STUDIES			
CO1: Ex	plain the concepts of computers and classify based on type and g	eneration.		
TB1: An	Introduction to Computer studies -Noel Kalicharan-Cambridge.			
1	A Simple Computer System: Central processing unit,			
2	the further need of secondary storage,			
3	Types of memory,			
4	Hardware, Software and people.	From: 26/08/19	Lecture	
5	Peripheral Devices: Input, Output and storage,	7	interspersed	
6	Data Preparation, Factors affecting input,	1	with	
7	Input devices, Output devices,	To: 12/09/19	discussions	
8	Secondary devices,	1		
9	Communication between the CPU and Input/ Output devices. (Text Book 1)			
developn	emonstrate the techniques of writing algorithms pseudo codes & s nent process.	chematic flow of logic	in software	
CO2: De developn FB1: An	emonstrate the techniques of writing algorithms pseudo codes & s nent process.  Introduction to Computer studies -Noel Kalicharan-Cambridge.	chematic flow of logic	in software	
CO2: De developn FB1: An	emonstrate the techniques of writing algorithms pseudo codes & s nent process. Introduction to Computer studies –Noel Kalicharan-Cambridge. Flowcharts	schematic flow of logic	in software	
CO2: Dedevelopm FB1: An 10 11	emonstrate the techniques of writing algorithms pseudo codes & sent process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping	chematic flow of logic	in software	
CO2: Dedevelopm FB1: An 10 11	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features	chematic flow of logic	in software	
CO2: Dedevelopm FB1: An 10 11	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game	chematic flow of logic	in software	
CO2: De developn ΓΒ1: An 10 11 12 13	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features	chematic flow of logic	in software	
CO2: De developn ΓΒ1: An 10 11 12 13 14	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game  some structured programming concepts	From: 13/09/19	in software  Lecture	
CO2: De developm FB1: An 10 11 12 13 14 15	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game  some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly			
CO2: De developm FB1: An 10 11 12 13 14 15	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game  some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly language		Lecture interspersed	
CO2: De developn FB1: An 10 11 12 13 14 15 16	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game  some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly	From: 13/09/19	Lecture interspersed with	
CO2: De developm FB1: An 10 11 12 13 14 15 16 17	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping  some programming features  Pseudo code, the one-zero game  some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly language  high -level and low level languages,	From: 13/09/19	Lecture interspersed with	
CO2: De developn FB1: An 10 11 12 13 14 15 16 17	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping some programming features  Pseudo code, the one-zero game some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly language high -level and low level languages,  Don't – Care Conditions	From: 13/09/19	Lecture interspersed with	
CO2: De developm FB1: An 10 11 12 13 14 15 16 17	emonstrate the techniques of writing algorithms pseudo codes & sment process.  Introduction to Computer studies –Noel Kalicharan-Cambridge.  Flowcharts  Looping some programming features  Pseudo code, the one-zero game some structured programming concepts  Documents  Tutorial  Programming Languages: Machine Language and assembly language high -level and low level languages,  Don't – Care Conditions  Products of Sum Simplification	From: 13/09/19	Lecture interspersed with	

# SRK INSTITUTE OF TECHNOLOGY VIJAYAWADA

### S.R.K INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108

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DEPARTMENT OF SCIENCE AND HUMANITIES

	.Teach about the purpose of networks and types of networks and media to c	onnect the comp	uters
7	Teach about Operating Systems and its concepts.	orancer are comp	uicis
	ndamentals of Computers –Reema Thareja-Oxford higher education		
24	Computer Networks : Introduction to computer Networks, Network	Г : I	
-	topologies-Bus topology, star topology, Ring topology, Mesh topology,		
	Hybrid topology,		
25	Types of Networks: Local area Network, Wide Area Networks,		
23	Metropolitan Networks, Campus/ Corporate Area Network, Personal		
	Area Network.		
26	Network Devices- Hub, Repeater, Switch, Bridge, Router, Gateway,		
	Network interface Card, Open System Inter connection Model (Text	From:	Lecture
	Book 2)	27/09/19	interspersed
27	Operating systems: Introduction, Evolution of operating systems,	Т.	with
28	Process Management- Process control block, Process operations,	То:	discussions
	Process scheduling, Command Interpreter,	05/11/19	
29	Popular operating systems- Microsoft DOS, Microsoft Windows,		
	UNIX and Linux. (Text Book 2)		
ГВ2: Fu	Introduction to Computer studies —Noel Kalicharan-Cambridge.  ndamentals of Computers —Reema Thareja-Oxford higher education.	·	
32	File-Oriented Approach, Database-oriented Approach		
33	Components of Database system, Advantages & Disadvantages of		
	Database approach, Applications of Database systems,		
34	Database views, Three-schema architecture, Database models-		
	777 11 1 1137 136 11 12 136 11 011 1 1 1		т.
	Hierarchical model, Network Model, relational Model, Object-oriented	From:	Lecture
	Data Model, Network Model, relational Model, Object-oriented	From: 6/11/19	interspersed
35	Data Model,	6/11/19	interspersed with
35	Data Model,  Components of database management systems, Retrieving Data		interspersed with
	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)	6/11/19	interspersed with
35	Data Model,  Components of database management systems, Retrieving Data	6/11/19	interspersed
	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general	6/11/19	interspersed with
36	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general program design,	6/11/19	interspersed with
36 37 UNIT-V	Data Model, Components of database management systems, Retrieving Data through Queries (Text Book 2) Investigation, Analysis, Design, system processing and general program design, Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW	6/11/19 To: 26/11/19 VORKS	interspersed with discussions
36 37 UNIT-V CO5: III	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general program design,  Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an	6/11/19 To: 26/11/19 VORKS	interspersed with discussions
36 37 UNIT-V CO5: III TB2: Fu	Data Model, Components of database management systems, Retrieving Data through Queries (Text Book 2) Investigation, Analysis, Design, system processing and general program design, Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an andamentals of Computers –Reema Thareja-Oxford higher education.	6/11/19 To: 26/11/19 VORKS ad utility comput	interspersed with discussions
36 37 UNIT-V CO5: III	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general program design,  Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an undamentals of Computers—Reema Thareja-Oxford higher education.  Distributed Networking, Peer-to-peer Computing, Categorization of	6/11/19 To: 26/11/19 VORKS ad utility comput	interspersed with discussions
36 37 UNIT-V CO5: III TB2: Fu	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general program design,  Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETV ustrate about distributed computing, peer to peer, grid, cloud on demand and and and and and and and and and	6/11/19 To: 26/11/19 VORKS ad utility comput	interspersed with discussions ing Lecture intersperse
36 37 UNIT-V CO5: III TB2: Fu	Data Model, Components of database management systems, Retrieving Data through Queries (Text Book 2) Investigation, Analysis, Design, system processing and general program design, Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an undamentals of Computers—Reema Thareja-Oxford higher education.  Distributed Networking, Peer-to-peer Computing, Categorization of Peer-to-peer system Applications of Peer-to-peer networks Grid Computing-components of Grid computing, Applications of Grid	6/11/19 To: 26/11/19  VORKS ad utility comput  From: 27/11/19	interspersed with discussions ing  Lecture intersperse with
36 37 UNIT-V CO5: III TB2: Fu 38	Data Model,  Components of database management systems, Retrieving Data through Queries (Text Book 2)  Investigation, Analysis, Design, system processing and general program design,  Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an and amentals of Computers—Reema Thareja-Oxford higher education.  Distributed Networking, Peer-to-peer Computing, Categorization of Peer-to-peer system Applications of Peer-to-peer networks  Grid Computing-components of Grid computing, Applications of Grid computing,	6/11/19 To: 26/11/19 VORKS ad utility comput	interspersed with discussions ing Lecture intersperse
36 37 UNIT-V CO5: III TB2: Fu	Data Model, Components of database management systems, Retrieving Data through Queries (Text Book 2) Investigation, Analysis, Design, system processing and general program design, Presentation to management and users, Implementation, Documents. (Text Book 1).  EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW ustrate about distributed computing, peer to peer, grid, cloud on demand an undamentals of Computers—Reema Thareja-Oxford higher education.  Distributed Networking, Peer-to-peer Computing, Categorization of Peer-to-peer system Applications of Peer-to-peer networks Grid Computing-components of Grid computing, Applications of Grid	6/11/19 To: 26/11/19  VORKS ad utility comput  From: 27/11/19	interspersed with discussions ing Lecture intersperse with



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DEPARTMENT OF SCIENCE AND HUMANITIES

41	Wireless network operations, Types of wireless networks, security in wireless Networks, Limitations of wireless Networks	
42	Bluetooth - Bluetooth Piconets, Avoiding Interference in Bluetooth	
	Devices, Bluetooth Security, Differences between Bluetooth and Wireless Networks. (Text Book 2)	

TB1: An Introduction to Computer studies –Noel Kalicharan-Cambridge.
TB2: Fundamentals of Computers –Reema Thareja-Oxford higher education.

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DEPARTMENT OF SCIENCE AND HUMANITIES

### **Tentative Lesson Plan**

Course 7	Title: FUNDAM	ENTALS OF COMPUTER SCIENCE		
Section:		Date: 04/11/2020	Sub Code: R19	9ES1112
Revision	No: 00	Prepared By: P.JAYA SRI	Approved By:	
Tools: B	lack board, PPTs	, and Online	11	
S. No.		Торіс	Date	Mode of Delivery
UNIT-I	INTRODUCT	TON COMPUTER STUDIES		1
CO1: Ex	plain the concept	s of computers and classify based on type and ge	eneration.	
1	A Simple Com	puter System: Central processing unit,		
2		l of secondary storage,		
3	Types of memo		T	
4 Hardware, Soft 5 Peripheral Devi 6 Data Preparation		ware and people.	From: 26/08/19	Lecture
		ices: Input, Output and storage,		interspersed
		on, Factors affecting input,		with
7	Input devices, (		To: 12/09/19	discussions
8	Secondary devi			
9	(Text Book 1)	n between the CPU and Input/ Output devices.		
UNIT-II		SOLVING AND PROGRAMMING		
	monstrate the tec	hniques of writing algorithms pseudo codes & so	hematic flow of logic	in anthron
developm	ent process.	and the state of t	mentance now or logic	iii software
10	Flowcharts		T	T
11	Looping			
12	some programn	ning features		
13		e one-zero game		
14	some structured	programming concepts		
15	Documents			
16	Tutorial		From: 13/09/19	Lecture
17	Programming L language	anguages: Machine Language and assembly		interspersed with
18		low level languages,	To: 26/09/19	discussions
19	Don't - Care Co	anditions		discussions
20		n Simplification		
21	Sum of Product			
22	Assemblers,	-		
23	Compilers, and	Interpreters		
UNIT-III		ER NETWORKS		
		urpose of networks and types of networks and m	adia to connect the	
2. 7	Teach about One	ating Systems and its concepts.	cura to connect the cor	nputers
24	Computer Nets	works: Introduction to computer Networks, Net	arork	T
	topologies-Bus	topology, star topology, Ring topology, Mesh top	oology	
	Hybrid topology		, (Joseph J. 1985)	
25		rks: Local area Network, Wide Area Networks,		



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DEPARTMENT OF SCIENCE AND HUMANITIES

		and the territory of the contract of the contract of	
	Metropolitan Networks, Campus/ Corporate Area Network, Personal Area Network,	From:	
26	Network Devices- Hub, Repeater, Switch, Bridge, Router, Gateway,	27/09/19	
	Network interface Card, Open System Inter connection Model (Text		Lecture
	Book 2)	To:	interspersed
27	Operating systems: Introduction, Evolution of operating systems,		with
28	Process Management- Process control block, Process operations,	05/11/19	discussions
	Process scheduling, Command Interpreter,		
29	Popular operating systems- Microsoft DOS, Microsoft Windows,		
	UNIX and Linux. (Text Book 2)		
UNIT-I	DATABASE SYSTEMS, COMPUTER SYSTEMS AND DEVEL	OPMENT	
CO4: III	ustrate about database architecture and its components.		
32	File-Oriented Approach, Database-oriented Approach		
33	Components of Database system, Advantages & Disadvantages of		
	Database approach, Applications of Database systems,		
34	Database views, Three-schema architecture, Database models-		
	Hierarchical model, Network Model, relational Model, Object-oriented	From:	Lecture
	Data Model,	6/11/19	interspersed with
35	Components of database management systems, Retrieving Data		discussions
	through Queries (Text Book 2)	To: 26/11/19	aiscussions
36	Investigation, Analysis, Design, system processing and general		
	program design,		
37	Presentation to management and users, Implementation, Documents.		
	(Text Book 1).		
UNIT-V	EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW	ORKS	
CO5: III	ustrate about distributed computing, peer to peer, grid, cloud on demand an	d utility computi	ng
	ndamentals of Computers – Reema Thareja-Oxford higher education.		
38	Distributed Networking, Peer-to-peer Computing, Categorization of	From:	
39	Peer-to-peer system Applications of Peer-to-peer networks	27/11/19	
39	Grid Computing-components of Grid computing, Applications of Grid computing,	T21/12/10	Lecture
40	Cloud Computing-characteristics of cloud computing systems, cloud	To:21/12/19	interspersed
10	computing services, cloud computing architecture, cloud computing		with discussions
	applications, Cloud computing concerns		discussions
41	Wireless network operations, Types of wireless networks, security in		
	wireless Networks, Limitations of wireless Networks		
42	Bluetooth - Bluetooth Piconets, Avoiding Interference in Bluetooth		
	Devices, Bluetooth Security, Differences between Bluetooth and		
	Wireless Networks. (Text Book 2)		

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Signature of HOD

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PRINCIPA



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA KAKINADA – 533 003, Andhra Pradesh, India

### DEPARTMENT OF INFORMATION TECHNOLOGY

### **COURSE STRUCTURE - R19**

### I Year - I SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	HS1101	English	3	0	0	3
2	BS1101	Mathematics - I	3	0	0	3
3	BS1106	Applied Chemistry	3	0	0	3
4	ES1112	Fundamentals of Computer Science	3	0	0	3
5	ES1103	Engineering Drawing	1	0	3	2.5
6	HS1102	English Lab	0	0	3	1.5
7	BS1107	Applied Chemistry Lab	0	0	3	1.5
8	ES1105	IT Workshop .	0	0	3	1.5
9	MC1101	Environmental Science	3	0	0	0
		Total Credits	16	0	12	19

### I Year - II SEMESTER

S. No	Course Code	Subjects	L	T	P	Credits
1	BS1202	Mathematics – II	3	0	0	3 .
2	BS1203	Mathematics – III	3	0	0	3
3	BS1204	Applied Physics	3	0	0	3
4	ES1201	Programming for Problem Solving using C	3	0	0	3
5	ES1213	Digital Logic Design	3	0	0	3
6	BS1205	Applied Physics Lab	0	0	3	1.5
7	HS1203	Communication Skills Lab	0	1	2	2
8	ES1202	Programming for Problem Solving using C Lab	0	0	3	1.5
9	PR1201	Engineering Exploration Project	0	0	2	1
10	MC1204	Constitution of India	3	0	0	0
		Total Credits	18	1	10	21

# PLAN: PLONETENTATIVE LESSON PLAN: R19HS1101

Course Title: E	inglish l	HS1101		
Section : IT		Date: 26-08-2019		:01 of 03
Revision No: 0		Prepared By: D.Anand	Approve	ed By: HOD
Tools: Black bo	pard			
No. of Periods		TOPIC	Date	Mode of Delivery
CO1: Facilitate English spoken	effective by nati	l of happiness, Deliverance by Premcha we listening skills for better comprehens ive speakers Maruthi Publications, —The Individual So	ion of academic	
1		wer full of happiness	26-8-19	- And the state of
2	Listen	ing : Short Audio Texts	28-8-19	
3	Speak	ing: Asking and answering questions	30-8-19	Т
4	Readi	ng: Skimming and Scanning	3-9-19	Lecture interspersed
5	Readi	ng for Writing: Paragraph writing	3-9-19	with discussions
6	Vocab	oulary: Technical Vocabulary	4-9-19	İ
7	Gram	mar: Content words and function words	4-9-19	
8	The De	eliverance: Munshi Prem Chand	5-9-19	
9	Long A	Answers	6-9-19	
10	Short A	Answers	9-9-19	
CO2: Focus on and authentic n	approp naterial	to his daughter Indira on her birthday, Bos oriate reading strategies for comprehens is ruthi Publications, —The Individual Societ	sion of various ac	cademic texts
12		's letter to his daughter Indira on her		
13	Listen	ing: Answering a series of questions	12-9-19	
14	Speaki	ing: Discussion in pairs	13-9-19	
. 15	Readir	ng: Identifying sequence of ideas	16-9-19	Lecture interspersed

17	WL-I T-1-1-1	10010	discussion
17	Vocabulary: Technical vocabulary	19-9-19	
18	Grammar: Use of articles	20-9-19	
19	Bosom Friend Hira Bansode	23-9-19	
20	Long Answers	23-9-19	
21	Short Answers	25-9-19	+

UNIT-III: Stephen Hawking-Positivity "Benchmark", Shakespeare's Sister by Virginia Woolf

CO3: Help improve speaking skills through participation in activities such as role plays, discussions and structured talks/oral presentations

24	Stephen Hawking-Positivity 'Benchmark	27-9-19	
25	Listening: Listening for global comprehension	30-9-19	Lecture
26	Speaking: Discussing specific topics in pairs	10-10-19	interspers with
27	Reading: Reading a text in detail	14-10-19	_ discussion
28	Reading for Writing: Summarizing	15-10-19	
29	Vocabulary: Technical vocabulary	16-10-19	
30	Grammar: Verbs - tenses; subject-verb agreement	4-11-19	
31	Shakespeare's Sister by Virginia Woolf	7-11-19	
32	Long Answers	8-11-19	+

UNIT IV Liking a Tree, Unbowed: Wangari Maathai, Telephone Conversation-Wole Soyinka

CO4: Impart effective strategies for good writing and demonstrate the same in summarizing, writing well organized essays, record and report useful information.

TB: Infotech English, Maruthi Publications, —The Individual Society, Pearson Publications

33	Like a Tree, Unbowed: Wangari Maathai- biography	14-11-19	
34	Listening: Making predictions while listening	15-11-19	Lecture interspersed
35	Speaking: Role plays for practice of conversational	18-11-19	with

	English	na mada sa sa kata sa Si	discussions
36	Reading: Studying the use of graphic elements	20-11-19	
37	Reading for Writing: Information transfer	21-11-19	
38	Vocabulary: Technical vocabulary	23-11-19	
39	Grammar: Quantifying expressions	27-11-19	
40	Telephone Conversation: Wole Soyinka	28-11-19	

UNIT-V: Stay Hungry-Stay foolish, Still I Rise by Maya Angelou

CO5: Provide knowledge of grammatical structures and vocabulary and encourage their appropriate use in speech and writing

41	Stay Hungry-Stay foolish	4-12-19	
			Lecture
42	Listening Identifying key terms	5-12-19	intersperse
43	Speaking: Formal oral presentations	6-12-19	with discussion
44	Reading: Reading for comprehension	9-12-19	
45	Reading for Wrifing: Writing academic proposals	12-12-19	
46	Vocabulary: Technical vocabulary	13-12-19	
47	Grammar: Editing short texts	16-12-19	

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# TENTATIVE LESSON PLAN: R19BS1101

Section : IT	ATHEMATICS - 1 Date: 26-08-2019	Page No	:01 of 02
Revision No : 00			d By: HOD
Tools: Black bo			
No. of Periods	TOPIC	Date	Mode of
			Delivery
CO1: utilize mea	ENCES, SERIES AND MEAN VALUE THEOR on value theorems to real life problems ag Mathematics", Dr. T.K.V.Iyengar; S.Chand p		
1	SEQUENCES AND SERIES:		
	Convergence and Divergence	4	
2	Ratio test		
3	Comparison test	-	
4	Integral test	From:	т.,
5	Cauchy 's root test	26-08-2019	Lecture
6	Alternating series	Т	intersperse
7	Leibnitz 's rule	To: 14-09-2019	with discussions
8	Mean Value Theorems:	14-09-2019	discussions
	Rolle 's Theorem		
9	Lagrange 's mean value theorem		
10	Cauchy 's mean value theorem		
11	Taylor 's and Maclaurin 's theorems with		
	remainders		
	FERENTIAL EQUATIONS OF FIRST ORDER AN		REE
	differential equations related to various engineer		
	g Mathematics", Dr. T.K.V.Iyengar; S.Chand pu	blications	
12	Introduction: Differential Equations of First order first degree		
13	Exact Equations – Conditions of Exactness		
14	Equations reducible to Exact		
15	Non Exact Differential Equations	From:	
16	Linear Differential Equations of first order	16-09-2019	
17	Bernouli Equation		Lecture
18	Equations reducible to linear	To:	intersperse
19	Orthogonal Trajectories - Cartesian	05-10-2019	with
20	Orthogonal Trajectories - Polar	03-10-2019	discussions
21	Newton's law of cooling		
	Natural grouth or doory		
22	Natural growth or decay		

	APPENDED TO THE PROPERTY OF TH	e propins de la secono de la companya del companya del companya de la companya de	1 50 50 1 10 100
UNIT III . I	INEAR DIFFERENTIAL EQUATIONS OF H	CHER ORDER	
	the differential equations related to various engi		
	집에 가장 하는 사람들이 되었다. 이루어에 되었다. 그리지 않는 그리고 있는 것이 없었다. 그리고 있다고 있다.		
	eering Mathematics", Dr. T.K.V.Iyengar; S.Cha Linear DE of constant coefficients	From:	
24	Solutions of $f(D) = Q(x), Q(x) = e^{ax}$	07-10-2019	
26	$Q(x) = \sin ax \text{ or } \cos ax$	To:	Lecture
27	$Q(x) = \sin ax \text{ or } \cos ax$ $Q(x) = x^n$	19-10-2019	interspersed
28	$Q(x) = e^{ax}V(x)$	&	with
29	Q(x) = xV(x)	From:	discussions
30	$Q(x) = x^n \sin ax \ or \cos ax$	28-10-2019	
31	Method of variation of parameters	To:	
32	Applications: LCR Circuit	09-11-2019	
UNIT-IV	PARTIAL DIFFERENTIATION		Account to the second
	rize with functions of several variables which is	useful in optimizat	tion
	ering Mathematics", Dr. T.K.V.Iyengar; S.Chan		
33	Homogeneous function; Euler's Theorem		
34	Total Derivative; Chain rule	From:	
35	Taylor's mean value theorems	11-11-2019	Lecture
36	Maclaurin's series	T	interspersed
37	Jacobians, formulae	To:	with discussions
38	Functional dependence	30-11-2019	discussions
39	Maxima minima of two variables		
40	Langranges method		
UNIT-V: MU	JLTIPLE INTEGRALS		
CO5: Apply	double integration techniques in evaluating are	as bounded by regi	on
	ering Mathematics", Dr. T.K.V.Iyengar; S.Cha		
41	Introduction	From:	
42	Double integrals	02-12-2019.	т.
43	Triple integrals	To:	Lecture interspersed
44	Change of order of integration		with
45	Change of variable	21-12-2019	discussions

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Finding volumes

Applications: Finding areas

46

47

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Department of Science and Humanities

### TENTATIVELESSON PLAN APPLIED CHEMISTRY: BS1106

Section: I'	Γ	Date: 26-8-2019	Page N	0:1-3
Revision No:00		Prepared By: B.SOWJANYA		ved By : HOD
Tools:			120010	red by . HOD
No. of Perio	ds-76	TOPIC	Date	Mode of Delivery
onderstand t	ne the ba he mech	-II :ELECTROCHEMICAL CELLS AND (asic for the construction of electrochemical canism of corrosion and how it can be prevently by Jain and Jain; Dhanpat Rai Publicating	cells, batteries	
1		Unit -II :ELECTROCHEMICAL CELLS	26-8-2019	
2		le electrode potentia.	26-8-2019	
3		trochemical series and uses of series	27-8-2019	
4		dard hydrogen electrode, calomel electrode	28-8-2019	7
5		centration cell-	30-8-2019	
6		truction of glass electrode	3-9-2019	
7		eries: Dry cell, Ni-Cd cells,	4-9-2019	
8	NiM	etal hydride cells, Li ion battery, zinc air cells	5-9-2019	Lecture
9	Fuel	cells: H2-O2, CH3OH-O2,	6-9-2019	interspersed
10		phoric acid, molten carbonate	9-9-2019	with
11	Corr	osion:-Definition-theories of corrosion	9-9-2019	discussions
12	galva stres	anic corrosion, differential aeration corrosion, s corrosion,	9-9-2019	
13	wate galva	rline corrosion-passivity of metals- nicseries	11-9-2019	
14	Facto	ors influencing rate of corrosion-corrosion	13-9-2019	
15	Prote	ective coatings: Surface preparation, cathodic	16-9-2019	
16	Anoc	lic coatings, electroplating, electroless plating (nickel).	17-9-2019-	-
17	Paint	s (constituents, functions, special paints).	18-9-2019	
		Unit – I: POLYMER TECHNOLO		
O-1: Importa	ance of a	isage of plastics in household appliances an	d composites (	(FRP) in
		tive industries.		
1	Polym	ering Chemistry by Jain and Jain; Dhanpat Ra nerisation:- Introduction-methods of		o.)
-	1 Olyll	icingation introduction-methods of	23-9-2019	



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2	physical and mechanical properties.	23-9-2019	
3	Plastics: Compounding-fabrication	24-9-2019	1
4	preparation, properties and applications of PVC,	25-9-2019	1
5	polycarbonates and Bakelite-mention some examples of plastic.	26-9-2019	Lecture intersperse
6	Materials used in electronic gadgets, recycling of e-plastic waste	26-9-2019	with discussion:
7	Elastomers:- Natural rubber-drawbacks- vulcanization	26-9-2019	discussions
8	preparation, properties and applications of synthetic rubbers	27-9-2019	<del>-,</del>
9	(Buna S, thiokol and polyurethanes	27-9-2019	
10	Composite materials: Fiber reinforced plastics	28-9-2019	
11	conductingpolymers-	30-9-2019	
12	Biodegradable polymersbiopolymers	30-9-2019	
13	Biomedical polymers	11-10-2019	

# Unit - III: MATERIAL CHEMISTRY

CO3: Explain the preparation of semiconductors and nanomaterials, engineering applications of nanomaterials, superconductors and liquidcrystals.

1	(Engineering Chemistry by Jain and Jain; Dhanpat F Part I: Non-elemental semiconducting materials	14-10-2019	
2	Semiconductor devices (p-n junction diode as rectifier, junction transistor	15-10-2019	
3	Insulators & magnetic materials: electrical insulators	16-10-2019	
4	Ferro and ferri magnetism-Hall effect and its applications.	17-10-2019	
5	Part II: Nano materials:- Introduction-sol-gel method-	18-10-2019	Lecture interspersed
6	characterization by BET, SEM and TEM methods	24-10-2019	with
7	Applications of graphene-carbon nanotubes and fullerenes:	5-11-2019	discussions
8	Types, preparation and applications Liquid crystals	6-11-2019	
9	Introduction-types-applications. Super conductors:-Type –I, Type II-characteristics and applications.	7-11-2019	

UNIT IV: ADVANCED CONCEPTS/TOPICS IN CHEMISTRY

C04: Outline the basics of computational chemistry and molecular switches.

Engineering Chemistry by Jain and Jain; Dhanpat Rai Publicating Co.)



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1	Computational chemistry: Introduction, Ab Initio studies Molecular switches	10-11-2019	
2.	characteristics of molecular motors and machines, Rotaxanes	12-11-2019	
3.	Catenanes as artificial molecular machines, prototypes	18-11-2019	Lecture
4.	linear motions in rotaxanes, an acid-base controlled molecular shuttle	18-11-2019	interspersed with
5.	a molecular elevator,	19-11-2019	discussions
6.	an autonomous light-powered molecular motor	20-11-2019	discussions
7.	Computational chemistry: Introduction, Ab Initio studies Molecular switches	21-11-2019	
8.	characteristics of molecular motors and machines,	22-11-2019 -	

# UNIT V: SPECTROSCOPIC TECHNIQUES & NON CONVENTIONAL ENERGY SOURCES

CO-5: Recall the increase in demand for power and hence alternative sources of power are studied due to depleting sources of fossil fuels. Advanced instrumental techniques are introduced.

(Engineering Chemistry by Jain and Jain: Dhannat Pai Publicating Co.)

	Engineering Chemistry by Jain and Jain; Dhanpat Rai F		
1.	Part A: SPECTROSCOPIC TECHNIQUES Electromagnetic spectrum-UV	29-11-2019	
2.	laws of absorption, instrumentation,	2-12-2019	
3	Theory of electronic spectroscopy, Frank-condon principle	3-12-2019	Lecture interspersed
4.	chromophores and auxochromes, intensity shifts, applications	4-12-2019	with
5.	FT-IR (instrumentation and IR of some organic compounds, applications).	5-12-2019	discussions
6.	Magnetic resonance imaging and CT scan (procedure & applications).	6-12-2019	
7.	Part B: NON CONVENTIONAL ENERGY SOURCES	9-12-2019	
8.	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell,	10-12-2019	
9.	hydropower, geothermal power,	11-12-2019 12-12-2019	
10.	Tidal and wave power	17-12-2019	

B. Sowjanye FACULTY SIGNATURED 10 2020

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# TENTATIVE LESSON PLAN

	NGINEERING DRAWING	Course	Code:R19	
Section : Sec			o:01 of 02	
Revision No: (		KUMAR	Approv	ed By: HOL
Tools: Black b				·
No. of Periods	TOPIC		Date	Mode of Delivery
UNIT-I IN	TRODUCTION TO DRAWING			
	aw the polygons, curves, scales			
		r Desilet Che	DLI	alda Mana
Anand. 49th Ed	ng Drawing", by N.D. Butt &V.N	4. Panchai, Cha	riot Publi	sumg Hous
		100	5/08/2019	h .
1	Introduction			
2.	Lettering and Dimensioning		5/08/2019	
3	Geometrical constructions, Polygo		7/08/2019	province of the second
4	Ellipse		/09/2019	Lecture
			/09/2019	intersperse
5	Parabola and Hyperbola		3/09/2019	with
6	Cycloids		0/09/2019	discussion
7	Involutes		0/09/2019	
8	Vernier scales	1.2	1/10/2019	
9	Plain scales, diagonal scale	115	5/10/2019	
ΓB:"Engineeri	an and inclined to both the planes a ag Drawing", by Agarwal & Aga		one plane Graw Hill	Lecture
ΓB:"Engineeri	ig Drawing", by Agarwal & Aga			Manager and the second
ΓB:"Engineeri		rwal, Tata McC		intersperse
ΓB:"Engineeri Publishers, 2 <sup>nd</sup>	ig Drawing", by Agarwal & Aga Edition – 2015.	rwal, Tata McC	Graw Hill /11/2019	intersperse with
TB:"Engineeri Publishers, 2 <sup>nd</sup> 10	ng Drawing", by Agarwal & Aga Edition – 2015. Projections of points in various qua	rwal, Tata McCondrants 4/	Graw Hill	intersperse
TB:"Engineeri Publishers, 2 <sup>nd</sup> 10	ng Drawing", by Agarwal & Aga Edition – 2015. Projections of points in various qua Projections of lines, lines parallel e	adrants 4, ither of the th planes	Graw Hill /11/2019 /11/2019	intersperse with
TB:"Engineerin Publishers, 2 <sup>nd</sup> 10 11	Ig Drawing", by Agarwal & Agar Edition – 2015.  Projections of points in various qual Projections of lines, lines parallel en reference planes and inclined to both True length determination and true inclination	rwal, Tata McCondrants 4, ither of the th planes angle of 8,	Graw Hill /11/2019 /11/2019	intersperse with
TB:"Engineerin Publishers, 2 <sup>nd</sup> 10 11	Ig Drawing", by Agarwal & Agar Edition – 2015.  Projections of points in various qual Projections of lines, lines parallel eneference planes and inclined to both True length determination and true inclination  Traces (inclined to both planes)	rwal, Tata McCondrants 4, ither of the th planes angle of 8,	Graw Hill /11/2019 /11/2019	intersperse with
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TB:"Engineerin Publishers, 2 <sup>nd</sup> 10 11 13 15 UNIT-HIPROJ CO3:Able to id to both the plan TB:"Engineerin Edition – 2015. 16 17 18 19 UNIT-IV P	Ig Drawing", by Agarwal & Agareticon – 2015.  Projections of points in various qual Projections of lines, lines parallel ereference planes and inclined to both True length determination and true inclination  Traces (inclined to both planes)  ECTIONS OF PLANES entify the different plans and drawes.  Ig Drawing", by Agarwal & Agaretes.  Projection of plane (parallel to one perpendicular to other plane)  Projection of plane (parallel to one inclined to other plane)  Projection of plane (inclined to both Projection of plane (inclined to both Projection of plane (inclined to both ROJECTIONS OF SOLIDS	rwal, Tata McCondrants 4, ither of the th planes angle of 8, w the projection wal, Tata McGr plane and 12 plane and 12 plane and 12 plane) 18 plane) 18	Graw Hill /11/2019 /11/2019 /11/2019 /11/2019 as of the p aw Hill Pa //11/2019 //11/2019 //11/2019	lane incline ublishers, 2  Lecture intersperse with discussion
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20 ===	Projection of solids (Prisms, Cylinder)	25/11/2019	Lecture
21	Projection of solids (Prisms, Cylinder)	26/11/2019	intersperse
22	Projection of solids (Pyramids, cone)	29/11/2019	with
UNIT-V	Projection of solids (Pyramids, cone) ISOMETRIC PROJECTIONS	2/12/2019	discussions

CO5:Able to represent and convert the isometric view to orthographic view and orthographic view to isometric view.

TB:"Engineering Drawing", by Agarwal & Agarwal, Tata McGraw Hill Publishers, 2nd Edition - 2015.

24	Conversion of isometric views to orthographic views	3/12/2019	Lecture interspersed with discussions
25	Conversion of isometric views to orthographic views	9/12/2019	
26	Conversion of isometric views to orthographic views	10/12/2019	
27	Conversion of orthographic views to isometric views	-16/12/2019	
28	Conversion of orthographic views to isometric views	17/12/2019	

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Signature of HODDate:

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# TENTATIVE LESSON PLAN: ES1112 FUNDAMENTALS OF COMPUTER SCIENCE

Course	Title: FUND	AMENTALS OF COMPUTER SCIENCE (ES11	12)		
occion.	• 11	Date: 04/11/2020			
	n No: 00	Prepared Ry: M SUPESH DADI	Page No: 1 to	2	
Tools: I	Black board, I	PTs, and Online	Approved By	: HOD	
S. No.		Topic	Date	Mode o	
UNIT-I	INTROD	UCTION COMPUTER STUDIES		Delivery	
3 H3 1 . AL	cplain the con	cepts of computers and classify based on type and to Computer studies -Noel Kalicharan-Cambridge	generation.		
1	A Simple (	Computer System: Central processing unit,			
2	the further	need of secondary storage			
3	Types of m	emory,			
4	Hardware,	Software and people.	From: 26/08/19	Lecture	
5	Peripheral I	Devices: Input, Output and storage,		interspersed	
6	Data Prepar	ation, Factors affecting input		with	
7	Input device	es, Output devices,	To: 12/09/19	discussions	
8	Secondary of	levices,		discussions	
9 <b>NIT-II</b>	(Text Book	ation between the CPU and Input/ Output devices.			
O2: Den evelopm B1: An	ent process	EM SOLVING AND PROGRAMMING techniques of writing algorithms pseudo codes & co Computer studies –Noel Kalicharan-Cambridge.	schematic flow of logic	in software	
10	Flowcharts	1 1001 Kancharan-Cambridge.			
11	Looping				
12	some progra	mming features	4		
13	Pseudo code	, the one-zero game	+		
14	some structu	red programming concepts	+		
	Documents				
	Tutorial		From: 13/09/19	Lecture interspersed	
17	Programming language	Languages: Machine Language and assembly	110111. 13/03/19		
		nd low level languages,	T- 26/00/40	with	
19	Don't - Care	Conditions	To: 26/09/19	discussions	
		um Simplification			
21	Sum of Produ	acts Simplification			
22	Assemblers,	- F			
23		nd Interpreters			
IT-III	COMPU'	TER NETWORKS			
3: 1.Te 2. Te	ach about the	purpose of networks and types of networks and m	edia to connect the com	puters	
e. I unua	intellials of C	omputers - Reema Thereis Oxford high	n		
to	opologies-Bu	s topology, star topology, Ring topology, Mark			
	lybrid topolog		JURIOV I		
5 T	3 10 10 10 10	gy, orks: Local area Network, Wide Area Networks.	o.o.g,		

	Metropolitan Networks, Campus/ Corporate Area Network, Personal Area Network,	From:	
26	Network Devices- Hub, Repeater, Switch, Bridge, Router, Gateway, Network interface Card, Open System Inter connection Model (Text Book 2)	27/09/19 To:	Lecture interspersed
27	Operating systems: Introduction, Evolution of operating systems,	0.00	with discussions
28	Process Management- Process control block, Process operations, Process scheduling, Command Interpreter,	05/11/19	
29	Popular operating systems- Microsoft DOS, Microsoft Windows, UNIX and Linux. (Text Book 2)		
	Introduction to Computer studies –Noel Kalicharan-Cambridge. Indamentals of Computers –Reema Thareja-Oxford higher education.  File-Oriented Approach, Database-oriented Approach  Components of Database system, Advantages & Disadvantages of Database approach, Applications of Database systems,		
34	Database views, Three-schema architecture, Database models- Hierarchical model, Network Model, relational Model, Object-oriented Data Model,	From: 6/11/19	Lecture interspersed with discussions
35	Components of database management systems, Retrieving Data through Queries (Text Book 2)	To: 26/11/19	
36	Investigation, Analysis, Design, system processing and general program design,		
37	Presentation to management and users, Implementation, Documents. (Text Book 1).		
UNIT-V	EMERGING COMPUTER TECHNOLOGIES, WIRELESS NETW lustrate about distributed computing, peer to peer, grid, cloud on demand an		
	undamentals of Computers –Reema Thareja-Oxford higher education.	ia utility comput	шд
38	Distributed Networking, Peer-to-peer Computing, Categorization of Peer-to-peer system Applications of Peer-to-peer networks	From: 27/11/19	Lecture interspersed
39	Grid Computing-components of Grid computing, Applications of Grid computing,	To:21/12/19	
40	Cloud Computing-characteristics of cloud computing systems, cloud computing services, cloud computing architecture, cloud computing applications, Cloud computing concerns		with discussion
41	Wireless network operations, Types of wireless networks, security in wireless Networks, Limitations of wireless Networks		
42	Bluetooth – Bluetooth Piconets, Avoiding Interference in Bluetooth Devices, Bluetooth Security, Differences between Bluetooth and Wireless Networks. (Text Book 2)		

 $TB1: An\ Introduction\ to\ Computer\ studies\ -Noel\ Kalicharan-Cambridge.$ 

TB2: Fundamentals of Computers -Reema Thareja-Oxford higher education.

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