TENTETIVE LESSON PLAN: R1621011

Course Title: PRO	BABILITY AND STATISTICS	
Section : CE - A	Date: 10/6/2019	Page No: 01 of 04
Revision No: 00	Prepared By : T.PRASANNA	Approved By : HOD

Tools : Black board			
No. of	TOPIC	Date	Mode of Delivery
Periods			

UNIT -I DISCRETE RANDOM VARIABLES AND DISTRIBUTIONS

CO1 To provide mathematical background and sufficient experience so that the student can read, write, and understand sentences in the language of discrete probability theory. To introduce students to the basic methodology of "probabilistic thinking" and to apply it to problems.

TB1:: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

1.	Introduction to Random Variable, Types	10/6/2019	
2.	Probability Mass Function, Problems	11/6/2019	
3.	Problems	12/6/2019	
4.	Distribution Function & Properties	13/6/2019	
5.	Mathematical Expectation & Properties	14/6/2019	
6.	Moment Generating Function & properties	15/6/2019	Lecture
7.	Binomial Distribution-p.m.f, Properties, m.g.f., Problems	17/6/2019	interspersed with discussions
8.	Problems	18/6/2019	
9.	Poisson Distribution-p.m.f, Properties, m.g.f., Problems	19/6/2019	
10.	Problems	20/6/2019	Projection of the second
· 11.	Geometric Distribution-p.d.f, Properties, m.g.f.,	21/6/2019	
12.	Problems	22/6/2019	
13.	Revision	24/6/2019	

UNIT II - CONTINUOUS RANDOM VARIABLES AND DISTRIBUTIONS

CO2: To provide mathematical background and sufficient experience so that the student can read, write, and understand sentences in the language of continuous probability theory. To introduce students to the basic methodology of "probabilistic thinking" and to apply it to problems.

14.	Continuos Random Variable, Probability Density function, problems	25/6/2019	
15.	Problems	26/6/2019	
16.	Distribution Function & Properties	27/6/2019	Lastuma
17.	Mathematical Expectation & Properties	28/6/2019	Lecture interspersed
18.	Moment Generating Function & properties	29/6/2019	with discussions
19.	Uniform Distribution- p.d.f., properties, m.g.f.,	1/7/2019	

20.	Problems	2/7/2019
21.	Exponential Distribution- p.d.f., properties, m.g.f., problems	3/7/2019
22.	Problems	4/7/2019
23.	Normal Distribution- p.d.f., properties, m.g.f., problems	5/7/2019
24.	normal Approximation to Binomial distribution	6/7/2019
25.	Problems	8/7/2019
26.	Gamma Distribution	9/7/2019
27.	Problems	10/7/2019
28.	Problems	11/7/2019
29.	Weibull Distribution	12/7/2019
30.	Problems	15/7/2019
31.	Revision	16/7/2019

UNIT III- SAMPLING THEORY

CO3: The aim of this course is to cover sampling design and analysis methods that would be useful for research and management in many field. A well designed sampling procedure ensures that we can summarize and analyze data with a minimum of assumptions and complications.

TB1: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

32.	Introduction- Population, Sample, Types of Sampling, Parameter & Statistic	17/7/2019	
33.	Sampling Distribution of Mean with Known Variance, Problems	18/7/2019 19/7/2019 20/7/2019	Lecture
34.	Central Limit theorem	217/2019 22/7/2019	interspersed with
35.	Sampling Distribution of Mean with Unknown Variance, Problems	23/7/2019	discussions
36.	Sampling Distribution of Proportions, Problems	24/7/2019	
37.	t - distribution	25/7/2019	
38.	F- distribution	26/7/2019	
39.	Chi- Square Distribution	27/7/2019	
40.	Point Estimation, Maximum Error Estimate - Problems	29/7/2019	
41.	Interval Estimation - Problems	30/7/2019	
42.	Revision	31/7/2019	

UNIT-IV TESTS OF HYPOTHESIS

CO4: One of the most important uses of statistics is to be able to make conclusions and test Hypothesis. Your conclusions can never be absolutely sure but you can quantify of your measure of confidence in the results.

43.	Introduction- Definations, Types of Errors, One	1/82019	
	tail,two-tail Test	2/8/2019	
44.	Test for Single Mean, Problems	3/8/2019	
45.	Problems	5/8/2019	
	Problems	6/8/2019	
46.	Test for Two Moons Droblems	7/8/2019	
	Test for Two Means, Problems	8/8/2019	
47.	Test for Single Proportion, Problems	9/8/2019	
48.	Problems	12/8/2019	Lecture
49.	Test for Two Proportion, Problems	13/8/2019	interspersed
50.	Problems	14/8/2019	with
51.	ANOVA One was Classification Duchlams	16/8/2019	discussions
	ANOVA One-way Classification, Problems	19/8/2019	
52.	ANOVA T Classification Darkland	20/8/2019	
	ANOVA Two-way Classification, Problems	21/8/2019	
53.	Problems	22/8/2019	
54.	Revision	26/8/2019	

UNIT -V CURVE FITTING AND CORRELATION

CO 5: To prepare students for future courses having quantitative components.

TB1: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

55.	Introduction to Curve Fitting	27/8/2019	
33.	introduction to Curve Fitting	28/8/2019	
59.	Fitting of Straight Line, Problems	29/8/2019	
60	Problems	30/8/2019	
61	Fitting of Second Degree Parabola, Problems	31/8/2019	
62	Problems	3/9/2019	
63	Fitting of Power Curve, Problems	4/9/2019	
64	Problems	5/9/2019	T and the same
65	Fitting of Exponential Curve, Problems	6/9/2019	Lecture
66	Problems	9/9/2019	interspersed with
67	Simple Correlation, Problems	12/9/2019	discussions
68	Problems	13/9/2019	discussions
69	Rank Correlation, Problems	14/9/2019	
70	Regression Analysis, Problems	16/9/2019	
71	Problems	17/9/2019	
72	Revision	18/9/2019	

UNIT -VI STATISTICAL QUALITY CONTROL

CO 6: A comprehensive coverage of modern quality control techniques to include the design of statistical process control systems, acceptance sampling, and process improvement.

73	Introduction to SQC, Methods For Preparing Control	19/9/2019	
	Charts	20/9/2019	Lecture
74	X-Bar Chart, Problems	2019/2019	interspersed
	A-Dai Cliait, Houleills	23/9/2019	with

75	R-Chart, Problems	24/9/2019	discussions
. 76	Problems	25/9/2019	
77	p-Chart, Problems	26/9/2019	•
78	Problems	27/9/2019	
79	np-Chart, Problems	28/9/2019	
80	Problems	30/9/2019	
81	c-Chart, Problems	1/10/2019	
82	Problems	3/10/2019	
83	Revision	4/10/2019	

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TENTETIVE LESSON PLAN: R1621011

Course Title: PRO	BABILITY AND STATISTICS	
Section : CE - B	Date: 10/6/2019	Page No: 01 of 04
Revision No: 00	Prepared By: T.PRASANNA	Approved By : HOD

Tools : Black board			1 CD !!
No. of	TOPIC	Date	Mode of Delivery
Periods			

UNIT -I DISCRETE RANDOM VARIABLES AND DISTRIBUTIONS

CO1 To provide mathematical background and sufficient experience so that the student can read, write, and understand sentences in the language of discrete probability theory. To introduce students to the basic methodology of "probabilistic thinking" and to apply it to problems.

TB1 :: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

1.	Introduction to Random Variable, Types	10/6/2019	
2.	Probability Mass Function, Problems	11/6/2019	
3.	Problems	12/6/2019	
4.	Distribution Function & Properties	13/6/2019	
5.	Mathematical Expectation & Properties	14/6/2019	
6.	Moment Generating Function & properties	15/6/2019	Lecture
7.	Binomial Distribution-p.m.f, Properties, m.g.f., Problems	17/6/2019	interspersed with discussions
8.	Problems	18/6/2019	
9.	Poisson Distribution-p.m.f, Properties, m.g.f.,Problems	19/6/2019	
10.	Problems	20/6/2019	
11.	Geometric Distribution-p.d.f, Properties, m.g.f.,	21/6/2019	
12.	Problems	22/6/2019	
13.	Revision	24/6/2019	

UNIT II - CONTINUOUS RANDOM VARIABLES AND DISTRIBUTIONS

CO2: To provide mathematical background and sufficient experience so that the student can read, write, and understand sentences in the language of continuous probability theory. To introduce students to the basic methodology of "probabilistic thinking" and to apply it to problems.

14.	Continuos Random Variable, Probability Density function, problems	25/6/2019	
15.	Problems	26/6/2019	
16.	Distribution Function & Properties	27/6/2019	Lecture
17.	Mathematical Expectation & Properties	28/6/2019	interspersed
18.	Moment Generating Function & properties	29/6/2019	with discussions
19.	Uniform Distribution- p.d.f., properties, m.g.f.,	1/7/2019	

20.	Problems	2/7/2019	
21.	Exponential Distribution- p.d.f., properties, m.g.f., problems	3/7/2019	
22.	Problems	4/7/2019	
23.	Normal Distribution- p.d.f., properties, m.g.f., problems	5/7/2019	
24.	normal Approximation to Binomial distribution	6/7/2019	
25.	Problems	8/7/2019	
26.	Gamma Distribution	9/7/2019	
27.	Problems	10/7/2019	
28.	Problems	11/7/2019	
29.	Weibull Distribution	12/7/2019	
30.	Problems	15/7/2019	
31.	Revision	16/7/2019	

UNIT III- SAMPLING THEORY

CO3: The aim of this course is to cover sampling design and analysis methods that would be useful for research and management in many field. A well designed sampling procedure ensures that we can summarize and analyze data with a minimum of assumptions and complications.

TB1: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

32.	Introduction- Population, Sample, Types of Sampling, Parameter & Statistic	17/7/2019	
33.	Sampling Distribution of Mean with Known	18/7/2019 19/7/2019	
	Variance, Problems	20/7/2019	Lecture
34.	Central Limit theorem	217/2019	interspersed
		22/7/2019	with
35.	Sampling Distribution of Mean with Unknown Variance, Problems	23/7/2019	discussions
36.	Sampling Distribution of Proportions, Problems	24/7/2019	
37.	t - distribution	25/7/2019	
38.	F- distribution	26/7/2019	
39.	Chi- Square Distribution	27/7/2019	
40.	Point Estimation, Maximum Error Estimate - Problems	29/7/2019	
41.	Interval Estimation - Problems	30/7/2019	
42.	Revision	31/7/2019	

UNIT-IV TESTS OF HYPOTHESIS

CO4: One of the most important uses of statistics is to be able to make conclusions and test Hypothesis. Your conclusions can never be absolutely sure but you can quantify of your measure of confidence in the results.

43.	Introduction- Definations, Types of Errors, One	1/82019	
	tail,two-tail Test	2/8/2019	
44.	Test for Single Mean, Problems	3/8/2019	
45.	D. 11	5/8/2019	
	Problems	6/8/2019	
46.		7/8/2019	
	Test for Two Means, Problems	8/8/2019	
47.	Test for Single Proportion, Problems	9/8/2019	
48.	Problems	12/8/2019	Lecture
49.	Test for Two Proportion, Problems	13/8/2019	interspersed
50.	Problems	14/8/2019	with
51.	13/04/10 CI 'C I' D II	16/8/2019	discussions
	ANOVA One-way Classification, Problems	19/8/2019	
52.	ANOVA T. Clasification Postions	20/8/2019	
	ANOVA Two-way Classification, Problems	21/8/2019	
53.	Problems	22/8/2019	
54.	Revision	26/8/2019	

UNIT -V CURVE FITTING AND CORRELATION

CO 5: To prepare students for future courses having quantitative components.

TB1: PROBABILITY AND STATISTICS By Dr. T.V.K. Iyengar, S. Chand & Company Pvt. Ltd., 2014.

	L. 1. di t. C Fining	27/8/2019	
55.	Introduction to Curve Fitting	28/8/2019	
59.	Fitting of Straight Line, Problems	29/8/2019	
60	Problems	30/8/2019	
61	Fitting of Second Degree Parabola, Problems	31/8/2019	
62	Problems	3/9/2019	
63	Fitting of Power Curve, Problems	4/9/2019	
64	Problems	5/9/2019	Lecture
65	Fitting of Exponential Curve, Problems	6/9/2019	interspersed
66	Problems	9/9/2019	with
67	Simple Correlation, Problems	12/9/2019	discussions
68	Problems	13/9/2019	discussions
69	Rank Correlation, Problems	14/9/2019	
70	Regression Analysis, Problems	16/9/2019	
71	Problems	17/9/2019	
72	Revision	18/9/2019	

UNIT -VI STATISTICAL QUALITY CONTROL

CO 6 : A comprehensive coverage of modern quality control techniques to include the design of statistical process control systems, acceptance sampling, and process improvement.

73	Introduction to SQC, Methods For Preparing Control Charts	19/9/2019 20/9/2019	Lecture
74	X-Bar Chart, Problems	2019/2019 23/9/2019	interspersed with

75	R-Chart, Problems	24/9/2019	discussions
76	Problems	25/9/2019	
77	p-Chart, Problems	26/9/2019	
78	Problems	27/9/2019	
79	np-Chart, Problems	28/9/2019	
80	Problems	30/9/2019	
81	c-Chart, Problems	1/10/2019	
82	Problems	3/10/2019	
83	Revision	4/10/2019	

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TENTATIVE LESSON PLAN: R1621012

Section : Se		SIC ELECTRICAL AND ELECTRONICS EN Date: 10-06-2019	Page No: 01 of 02	
Revision No		Prepared By: B.NAVAJEEVAN REDDY	Approved By	
Tools: Black bo		- F		
No. of			Date	Mode of
Periods	1	TOPIC	(Planned)	Delivery
(Planned)			(2)	
UNIT –I		CTRICAL CIRCUITS		
		asic principles of electrical law's and analysis		
ГВ :: Circui		l networks by A. Sudhakar , Shyammohan S I		
1		ic Definitions	10-06-19	
2,3		es of network elements	11,12-06-19	
4		ns law	14-06-19	T
5		chhoff's law	14-06-19	Lecture
6,7		uctive networks	15,17-06-19	interspersed
8,9		pacitive networks	18,19-06-19	with Discussions
10,11,12,13	Ser	ies, parallel circuits	21,22,24-	Discussions
			06-19	
14,15,16,17	Sta	r-delta and delta-star transformations	25,26,28-	
			06-19	
18,19		merical Problems	29,1-07-19	
20	Tut	orial	2-07-19	
21		roduction	03-07-19	
22	Pri	nciple of operation of DC generator	05-07-19	
23		(F equation	05-07-19	
24,25	Ty	pes of DC machine	06,08-07-19	
26		que equation	09-07-19	Lecture
27	Ap	plications	10-07-19	interspersed
28	Th	ree point starter	12-07-19	with
29,30	Spe	eed control methods of DC motor	12,15-07-19	
31	27.00	inburne's Test	16-07-19	discussions
32,33	NT.	CARROLL MODIFIED A CONTROL OF THE CO		discussions
2125		merical Problem	17,19-07-19	discussions
34,35	Tu	orial		discussions
UNIT - III	Tur	orial RANSFORMER	17,19-07-19 19,20-07-19	
UNIT - III CO3:: Unde	Tu Terstar	orial RANSFORMER ad the principle of operation and construction	17,19-07-19 19,20-07-19	
UNIT - III CO3:: Unde TB :: Electr	Tu Terstar	orial RANSFORMER d the principle of operation and construction of the construction of	17,19-07-19 19,20-07-19	
UNIT - III CO3:: Unde TB :: Electr TB:: Electri	Turrstan	orial RANSFORMER of the principle of operation and construction of Sechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi	17,19-07-19 19,20-07-19	
UNIT - III CO3:: Unde TB :: Electr	Turerstar ical Teal Teal Teal Teal Teal Teal Teal Te	RANSFORMER Id the principle of operation and construction of cechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi Inciple of operation and construction of single	17,19-07-19 19,20-07-19	
UNIT - III CO3:: Unde TB :: Electr TB:: Electri	Turerstar ical Teal Teal Teal Teal Teal Teal Teal Te	orial RANSFORMER of the principle of operation and construction of Sechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi	17,19-07-19 19,20-07-19 details of transfor	rmers.
UNIT - III CO3:: Unde TB :: Electr TB:: Electri 36,37	Turstan ical T cal T Pri pha	RANSFORMER Id the principle of operation and construction of Cechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi Inciple of operation and construction of single use transformers	17,19-07-19 19,20-07-19	rmers.
UNIT - III CO3:: Unde TB :: Electr TB:: Electri	Turstan ical T cal T Pri pha	RANSFORMER Id the principle of operation and construction of cechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi Inciple of operation and construction of single	17,19-07-19 19,20-07-19 details of transfor	Lecture interspersed
UNIT - III CO3:: Unde TB :: Electr TB:: Electri 36,37	Turstar ical Teal Teal Teal Teal Teal Teal Teal Te	RANSFORMER Id the principle of operation and construction of Cechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi Inciple of operation and construction of single use transformers	17,19-07-19 19,20-07-19 details of transfor 22,23-07-19	Lecture interspersed with
UNIT - III CO3:: Unde TB :: Electr TB:: Electri 36,37	Turstanical Teal Tripha	RANSFORMER Id the principle of operation and construction of the principle of operation and construction of the cechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi inciple of operation and construction of single ase transformers	17,19-07-19 19,20-07-19 details of transfor 22,23-07-19 24-07-19 26-07-19	Lecture interspersed
UNIT - III CO3:: Unde TB :: Electri 36,37	Turerstar ical Teal Teal Teal Teal Teal Teal Teal Te	RANSFORMER Id the principle of operation and construction of Sechnology by M S Naidu, S Kamakshaiah echnology by U.A.Bakshi nciple of operation and construction of single ase transformers IF equation assess	17,19-07-19 19,20-07-19 details of transfor 22,23-07-19 24-07-19	Lecture interspersed with

45,46,47	Tutorial		
		2,3-08-19	
UNIT - IV	AC MACHINES		
	stand the principle of operation and construction de	tails of alternato	r and 3-phase
induction mo	tor		
TB :: Electric	cal Technology by U.A.Bakshi		
48,49	Principle of operation and construction of alternators	13,14-08-19	
50,51	Regulation by synchronous impedance method	16-08-19	
52,53	Principle of operation of 3-Phase induction motor	17,19-08-19	
54,55	Slip-torque characteristics	20,21-08-19	Lecture
56,57	Efficiency	24,26-08-19	interspersed
58	Applications	27-08-19	with
59,60	Numerical Problem	28,30-08-19	discussions
61,62	Tutorial	30,31-08-19	
TB:: linear 63,64,65	integrated circuits by D.Roy choudhury PN junction diodes	2 3 4 00 10	
The same of the sa		2,3,4-09-19	
66,67,68	Half wave, full wave rectifiers	6,07-09-19	Lecture
69,70	Characteristics of Op-Amps	9,11-09-19	
71,72,73,74			interspersed
	Applications of Op-Amp	3,16,17-09-19	with
75,76,77	Applications of Op-Amp Tutorial	3,16,17-09-19 18,20-09-19	
UNIT – VI	Applications of Op-Amp Tutorial TRANSISTORS	18,20-09-19	with
UNIT – VI CO6:: learn	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and vario	18,20-09-19	with
UNIT – VI CO6:: learn	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and varionic Devices and circuits by S Salivahanan	18,20-09-19	with
UNIT – VI CO6:: learn	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and vario	18,20-09-19	with
UNIT – VI CO6:: learn t TB :: Electro	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and varionic Devices and circuits by S Salivahanan PNP and NPN transistor Transistor as an amplifier	18,20-09-19 us amplifiers.	with discussions Lecture
UNIT – VI CO6:: learn TB:: Electro	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and varionic Devices and circuits by S Salivahanan PNP and NPN transistor	18,20-09-19 us amplifiers. 21,23-09-19	Lecture intersperse
UNIT - VI CO6:: learn t TB :: Electro 78,79 80,81	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and varionic Devices and circuits by S Salivahanan PNP and NPN transistor Transistor as an amplifier	18,20-09-19 us amplifiers. 21,23-09-19 24,25-09-19	Lecture intersperse d with
UNIT – VI CO6:: learn 1 TB :: Electro 78,79 80,81 82,83	Applications of Op-Amp Tutorial TRANSISTORS the operation of PNP and NPN transistors and varionic Devices and circuits by S Salivahanan PNP and NPN transistor Transistor as an amplifier Single stage CE amplifier	18,20-09-19 us amplifiers. 21,23-09-19 24,25-09-19 27-09-19	Lecture intersperse

Signature of the Faculty

Signature of the HOD (0 6 6 1

SRK Institute of Technology ENIKEPADU. VIJAYAWADA-521 108

Course Title: BA Section : Sec B Revision No : 00		ENGINEERING (BEE	E)
	SIC ELECTRICAL AND ELECTRONICS F Date: 10-06-2019		
Downgian No ' III	Prepared By :B.INDRAJA	Approved By:	HOD
Tools: Black board	Frepared by .B.II (Bre 2012)		Mode of
No. of	TOPIC	Date	Delivery
Periods		(Planned)	Benvery
(Planned)			
	ECTRICAL CIRCUITS	sis of networks.	
CO1:: learn the	ECTRICAL CIRCUITS basic principles of electrical law's and analys nd networks by A. Sudhakar, Shyammohan	S Palli	
TB :: Circuits an	nd networks by A. Sudnakar , 22,	10-06-19	
1 Ba	asic Definitions	11,12-06-19	
,	ypes of network elements	14-06-19	
	hms law	14-06-19	Lecture
	irchhoff's law	15,17-06-19	interspersed
6,7 In	ductive networks	18,19-06-19	with
8,9 C	apacitive networks	21,22,24-	Discussions
10,11,12,13 S	eries, parallel circuits	06-19	
	1.1.1. to the descriptions	25,26,28-	
14,15,16,17 S	tar-delta and delta-star transformations	06-19	
	Jumerical Problems	29,1-07-19	
10,17		2-07-19	
20 T	Cutorial		
IB :: Electrica	l Technology by M S Naidu, S Kamakshaiah		ines.
TB:: Electrical	Technology by U.A.Bakshi	03-07-19	
TB:: Electrical	Technology by U.A.Bakshi		
TB:: Electrical 21 I 22 I	Technology by U.A.Bakshi Introduction Principle of operation of DC generator	03-07-19	
TB:: Electrical 21 I 22 I 23 I	Introduction Principle of operation of DC generator EMF equation	03-07-19 05-07-19	
TB:: Electrical 21	I Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine	03-07-19 05-07-19 05-07-19	Lecture
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation	03-07-19 05-07-19 05-07-19 06,08-07-19	Lecture interspersed
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications	03-07-19 05-07-19 05-07-19 06,08-07-19 09-07-19	Lecture interspersed with
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter	03-07-19 05-07-19 05-07-19 06,08-07-19 09-07-19	Lecture interspersed with
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor	03-07-19 05-07-19 05-07-19 06,08-07-19 09-07-19 10-07-19 12-07-19	Lecture interspersed with
TB:: Electrical 21	I Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test	03-07-19 05-07-19 05-07-19 06,08-07-19 09-07-19 10-07-19 12-07-19 12,15-07-19	Lecture interspersed with
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem	03-07-19 05-07-19 05-07-19 06,08-07-19 09-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19	Lecture interspersed with
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
21 I	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and constructions	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and constructed Technology by M S Naidu, S Kamakshaial and Technology by U.A.Bakshi	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and constructed Technology by M S Naidu, S Kamakshaial and Technology by U.A.Bakshi	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and construction and the principle of operation and construction of single of operation and construction of single of operation and construction of single	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and constructed Technology by M S Naidu, S Kamakshaial and Technology by U.A.Bakshi	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and construct al Technology by M S Naidu, S Kamakshaial al Technology by U.A.Bakshi Principle of operation and construction of single	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions rmers. Lecture interspers
TB:: Electrical 21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and construct al Technology by M S Naidu, S Kamakshaial al Technology by U.A.Bakshi Principle of operation and construction of single phase transformers EMF equation	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions rmers. Lecture interspersed with
TB:: Electrical 21	Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and construct al Technology by M S Naidu, S Kamakshaial al Technology by U.A.Bakshi Principle of operation and construction of single phase transformers EMF equation Losses	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions rmers. Lecture interspersed with
21	Technology by U.A.Bakshi Introduction Principle of operation of DC generator EMF equation Types of DC machine Torque equation Applications Three point starter Speed control methods of DC motor Swinburne's Test Numerical Problem Tutorial TRANSFORMER stand the principle of operation and construct al Technology by M S Naidu, S Kamakshaial al Technology by U.A.Bakshi Principle of operation and construction of single phase transformers EMF equation	03-07-19 05-07-19 05-07-19 06,08-07-19 10-07-19 12-07-19 12,15-07-19 16-07-19 17,19-07-19 19,20-07-19	Lecture interspersed with discussions rmers. Lecture intersperse

2,3-08-19

Tutorial

45,46,47

UNIT – IV			
CO4:: Under	stand the principle of operation and construction de	etails of alternato	r and 3-phase
induction mo	otor		
	cal Technology by U.A.Bakshi		
48,49	Principle of operation and construction of alternators	13,14-08-19	
50,51	Regulation by synchronous impedance method	16-08-19	
52,53	Principle of operation of 3-Phase induction motor	17,19-08-19	
54,55	Slip-torque characteristics	20,21-08-19	Lecture
56,57	Efficiency	24,26-08-19	interspersed
58	Applications	27-08-19	with
59,60	Numerical Problem	28,30-08-19	discussions
61,62	Tutorial	30,31-08-19	
UNIT – V	RECTIFIERS & LINEAR ICs		
CO5:: Study	the operation of PN junction diode, half wave, full v	vave rectifiers an	d OP-AMPs.
1B :: Electro	onic Devices and circuits by S Salivahanan		
63,64,65	integrated circuits by D.Roy choudhury PN junction diodes		
66,67,68		2,3,4-09-19	
69,70	Half wave, full wave rectifiers	6,07-09-19	Lecture
	Characteristics of Op-Amps	9,11-09-19	interspersed
71,72,73,74	Applications of Op-Amp	3,16,17-09-19	with
75,76,77	Tutorial	18,20-09-19	discussions
UNIT – VI	TRANSISTORS		
CO6:: learn t	he operation of PNP and NPN transistors and variou	us amplifiers.	
1B :: Electron	nic Devices and circuits by S Salivahanan		
78,79	PNP and NPN transistor	21,23-09-19	
80,81	Transistor as an amplifier	24,25-09-19	Lecture
82,83	Single stage CE amplifier	27-09-19	intersperse
84	Frequency response of CE amplifier	28-09-19	d with
85,86,87	Concepts of feedback amplifier	30,1,4-10-19	discussions
88,89	Tutorial	4 5-10-19	

Signature of the Faculty

SRK Institute of Technology

ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSON PLAN: (R1621013)

Course Title: Strength of Materials-I (R1621013)

		201
Section : Sec A Date : 10/6/2019	Page No : 01 of 04	
		Approved By : HOD
Revision No: 00	Prepared By: G.Sahithi	Approved by . 1102

Tools: Black board, PPTs, Model

I wis . Diach boar as		D.	Mode of
No. of	TOPIC	Date	Delivery
Periods			Denvery

UNIT -I SIMPLE STRESSES AND STRAINS AND STRAIN ENERGY

CO1 The student will be able to understand the basic concepts of Strength of Materials and Principles of Elasticity and Plasticity Stress strain behavior of materials and their governing laws. Introduce student the moduli of Elasticity and their relations.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publications

1	Introduction to elasticity and plasticity -Types of stresses	12-6-2019	
2	Types of strains – Hooke's law	13-6-2019	
3	Stress - strain diagram for mild steel	14-6-2019	
4	Working stress – Factor of safety – Lateral strain, Poisson's ratio and volumetric strain	15-6-2019	
5	Problems related to stress,strain and elongation	17-6-2019	
6	Problems on relation between stress strain and youngs modulus	18-6-2019	Lecture
7	Elastic moduli and the relationship between them	19-6-2019	intersperse with
8	Problems on relation between elastic constants	20-6-2019	discussion
9	Bars of varying section	21-6-2019	discussion
10	Problems on bars of varying cross section	22-6-2019	
11	Description of composite bars	24-6-2019	
12	Problems on composite bars	26-6-2019	
13	Temperature stresses, problems	27-6-2019	
14	Strain Energy – Resilience – Gradual, sudden, impact and shock loadings	28-6-2019	
15	Problems on strain energy	29-6-2019	

UNIT -II SHEAR FORCE AND BENDING MOMENT

CO2 The student will be able to draw the diagrams indicating the variation of the

key performance features like bending moment and shear forces

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publications

16	Definition of beam – Types of beams	1-7-2019	
17	Concept of shear force and bending moment	3-7-2019	
18	Diferrent types of loadings	3-7-2019	
19	Conversion of udl, uvl into point loads	4-7-2019	
20	S.F and B.M diagrams for simply Supported subjected to point loads, u.d.l loadings	5-7-2019	
21	S.F and B.M diagrams for simply	6-7-2019	

UNIT IV SHEAR STRESSES

CO4 Make the student to understand shearing stresses developed in the section and calculation of the shearing stress and also the variation of it.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

46	Derivation of formula for shear stress	3-8-2019	
47	Introduction to Shear stress distribution	5-8-2019	
48	Shear stress distribution across various beam sections like rectangular section	6-8-2019	
49	Shear stress distribution across various beam sections like cicular section	8-8-2019	
50	Shear stress distribution across various beam sections like triangular section	9-8-2019	Lecture interspersed
51	Shear stress distribution across I section	14-8-2019	with discussions
52	Shear stress distribution across T section	28-8-2019	
53	Shear stress distribution across built up section	30-8-2019	
54	Problems on S.S.D across various standard sections	31-8-2019	
55	Problems on S.S.D across various standard sections	4-9-2019	
56	Determination of S.S.D in T section	5-9-2019	
57	Determination of S.S.D in I section	5-9-2019	
58	Determination of S.S.D in built up sections	6-9-2019	

UNIT - V DEFLECTION OF BEAMS

CO5 The student will be able to calculate the deflections in beams under various loading and support conditions.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

59	Bending into a circular arc - slope, deflection and	7-9-2019	
	radius of curvature - Differential equation for the		
	elastic line of a beam		
60	Double integration Method	9-9-2019	
61	Determination of slope and deflection for cantilever	11-9-2019	
	subjected to point loads,		
62	Determination of slope and deflection for cantilever	12-9-2019	Lecture
	subjected to u.d.l		intersperse
63	Determination of slope and deflection for cantilever	13-9-2019	with
	subjected to u.v.l		discussions
64	Determination of slope and deflection for S.S.B	17-9-2019	
	subjected to point loads		
65	Determination of slope and deflection for S.S.B	18-9-2019	
	subjected to u.d.l		
66	Determination of slope and deflection for S.S.B	19-9-2019	
	subjected to u.v.l		
67	Macaulay's methods and problems on it	20-9-2019	
68	Mohrs theorem and Moment area method	20-9-2019	

UNIT -VI THIN AND THICK CYLINDERS

CO6 The student will be able to classify cylinders based on their thickness and to derive equations for measurement of stresses across the cross section when subjected to external pressure.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

			· · · · · · · · · · · · · · · · · · ·
69	Introduction to Thin and thick cylinders	21-9-2019	
70	Derivation of formula for hoop and longitudinal	23-9-2019	
71	Volumetric strain	24-9-2019	
72	Changes in diameter volume in cylinders	25-9-2019	
73	Introduction to thin spherical shells and derivation	26-9-2019	Lecture
74	Lames theory derivation	27-9-2019	interspersed
75	Hoop and radial stress	28-9-2019	with
76	Design of thick cylinders	28-9-2019	discussions
77	Compound cylinders and problems	28-9-2019	
78	Thick spherical shells	29-9-2019	
79	Problems on cylinders	29-9-2019	
80	Problems on cylinders	1-10-2019	
81	Problems on cylinders	1-10-2019	
82	Revision of previous papers	1-10-2019	

Signature of the Faculty

Signature of the HOD

PRINCIPAL SPK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSON PLAN: (R1621013)

Course Title: Strength of Materials-I (R1621013)

Section : Sec B Date : 10/6/2019 Page No : 01 of 04

Revision No: 00 | Prepared By: G.Sahithi | Approved By: HOD

Tools: Black board, PPTs, Model

No. of	TOPIC	Date	Mode of
Periods			Delivery

UNIT -I SIMPLE STRESSES AND STRAINS AND STRAIN ENERGY

CO1 The student will be able to understand the basic concepts of Strength of Materials and Principles of Elasticity and Plasticity Stress strain behavior of materials and their governing laws. Introduce student the moduli of Elasticity and their relations.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publications

1	Introduction to elasticity and plasticity -Types of stresses	12-6-2019	
2	Types of strains – Hooke's law	13-6-2019	
3	Stress – strain diagram for mild steel	14-6-2019	
4	Working stress – Factor of safety – Lateral strain, Poisson's ratio and volumetric strain	15-6-2019	
5	Problems related to stress, strain and elongation	17-6-2019	
6	Problems on relation between stress strain and youngs modulus	18-6-2019	Lecture
7	Elastic moduli and the relationship between them	19-6-2019	interspersed
8	Problems on relation between elastic constants	20-6-2019	with
9	Bars of varying section	21-6-2019	discussions
10	Problems on bars of varying cross section	22-6-2019	
11	Description of composite bars	24-6-2019	
12	Problems on composite bars	26-6-2019	
13	Temperature stresses, problems	27-6-2019	
14	Strain Energy - Resilience - Gradual, sudden, impact and shock loadings	28-6-2019	¥.
15	Problems on strain energy	29-6-2019	

UNIT -II SHEAR FORCE AND BENDING MOMENT

CO2 The student will be able to draw the diagrams indicating the variation of the

key performance features like bending moment and shear forces

T1 Strength of Materials by S.S Bhavikatti.

T2 Strength of Materials by R.K Bansal, Lakshmi Publications

16	Definition of beam – Types of beams	1-7-2019
17	Concept of shear force and bending moment	3-7-2019
18	Diferrent types of loadings	3-7-2019
19	Conversion of udl, uvl into point loads	4-7-2019
20	S.F and B.M diagrams for simply Supported subjected to point loads, u.d.l loadings	5-7-2019

21	S.F and B.M diagrams for simply	6-7-2019	
	Supported subjected to u.v.l loadings	8-7-2019	
22	S.F and B.M diagrams for cantilever subjected to	8-7-2019	
	point loads, u.d.l loadings	0.7.2010	
23	S.F and B.M diagrams for cantilever subjected to	9-7-2019	
	u.v.l loadings	10.7.2010	
24	overhanging beams, Relation between S.F., B.M	10-7-2019	
	and		
	rate of loading at a section of a beam	11.7.2010	Lecture
25	Problems on calculation of SFD,BMD for S.S.B	11-7-2019	interspersed
	subjected to point load	10 7 2010	with discussion
26	Problems on calculation of SFD,BMD for S.S.B	12-7-2019	with discussion
	subjected to u.d.l	45.5.0010	
27	Problems on calculation of SFD,BMD for S.S.B	15-7-2019	
	subjected to combination loadings	1.5 7 2010	
28	Problems on calculation of SFD,BMD for	16-7-2019	
	cantilever subjected to u.d.l	1======	
29	Problems on calculation of SFD,BMD for	17-7-2019	
	cantilever subjected to combination load		
30	Problems on calculation of SFD,BMD for over	18-7-2019	
	hanging beams		
		19-7-2019	
31	Problems on calculation of SFD,BMD for over		
	hanging subjected beams subjected to combination		
	loading beams		
31	hanging subjected beams subjected to combination		

UNIT-III FLEXURAL STRESSES

CO3 The student will have knowledge of stresses developed in the cross section and bending equations, calculation of section modulus of section for different cross sections

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

32	Theory of simple bending	20-7-2019
33	Assumptions of simple bending	22-7-2019
34	Derivation of	23-7-2019
	bending equation: $M/I = f/y = E/R$,	
35	Defnition of bending stresses	24-7-2019
36	Section Modulus	25-7-2019
37	Section	26-7-2019
	modulus of rectangular and circular sections (Solid	
	and Hollow),	
38	Section	27-7-2019
	modulus of I,T sections	
39	Section	29-7-2019
	modulus of angle sections	
40	Section	30-7-2019
	modulus of channel sections	
41	Problems on section modulus for standard sections	31-7-2019
42	Problems on section modulus for standard sections	31-7-2019
43	Problems on bending stresses	1-8-2019
44	Problems on bending stresses	1-8-2019
45	Problems on bending stresses	1-8-2019

Lecture interspersed with discussions

CO4 Make the student to understand shearing stresses developed in the section and calculation of the shearing stress and also the variation of it.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

	Derivation of formula for shear stress	3-8-2019	
46	Derivation of formula for shear distribution	5-8-2019	
47	Introduction to Shear stress distribution		
	Shear stress distribution across various beam	6-8-2019	
48	Shear stress distribution across various seaming		
	sections like rectangular section	8-8-2019	
49	Shear stress distribution across various		
	beam sections like cicular section	9-8-2019	Lecture
50	Shear stress distribution across various		interspersed
	beam sections like triangular section	14-8-2019	with discussion
51	Chear stress distribution across I section	28-8-2019	
52	Shear stress distribution across T section	30-8-2019	
53	Shear stress distribution across built up section	31-8-2019	
54	Problems on S.S.D across various standard	3.	
	sections	4-9-2019	
55	Problems on S.S.D across various standard	1,7200	
	sections	5-9-2019	
56	Determination of S.S.D in T section	5-9-2019	
57	Determination of S.S.D in I section	6-9-2019	
58	Determination of S.S.D in built up sections	0-7 2017	

UNIT - V DEFLECTION OF BEAMS

CO5 The student will be able to calculate the deflections in beams under various loading and support conditions.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

59	Bending into a circular arc – slope, deflection and	7-9-2019	
39	radius of curvature – Differential equation for the		
	elastic line of a beam	9-9-2019	
60	Double integration Method	11-9-2019	
61	Determination of slope and deflection for cantilever	11-7-2017	
	subjected to point loads.	12-9-2019	Lecture
62	Determination of slope and deflection for cantilever	12-9-2019	interspersed
02	listed to u dl	13-9-2019	with
63	Determination of slope and deflection for cantilever	13-9-2019	discussions
03	-hierard to u v	17.0.2010	albeat to
64	Determination of slope and deflection for S.S.B	17-9-2019	
04	subjected to point loads	10.0.0010	
65	Determination of slope and deflection for S.S.B	18-9-2019	
03	subjected to u.d.l		
66	Determination of slope and deflection for S.S.B	19-9-2019	
00	subjected to u.v.l		
(7	Macaulay's methods and problems on it	20-9-2019	
67	Mohrs theorem and Moment area method	20-9-2019	
68	Monrs theorem and woment area means		

UNIT -VI THIN AND THICK CYLINDERS

CO6 The student will be able to classify cylinders based on their thickness and to derive equations for measurement of stresses across the cross section when subjected to external pressure.

T1 Strength of Materials by S.S Bhavikatti,

T2 Strength of Materials by R.K Bansal, Lakshmi Publication

69	Introduction to Thin and thick cylinders	21-9-2019	**************************************
70	Derivation of formula for hoop and longitudinal stress	23-9-2019	
71	Volumetric strain	24-9-2019	
72	Changes in diameter volume in cylinders	25-9-2019	
73	Introduction to thin spherical shells and derivation	26-9-2019	Lecture
74	Lames theory derivation	27-9-2019	interspersed
75	Hoop and radial stress	28-9-2019	with
76	Design of thick cylinders	28-9-2019	discussions
77	Compound cylinders and problems	28-9-2019	discussions
78	Thick spherical shells	29-9-2019	
79	Problems on cylinders	29-9-2019	
80	Problems on cylinders	1-10-2019	
81	Problems on cylinders	1-10-2019	
82	Revision of previous papers	1-10-2019	

PRINCIPAL SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSON PLAN: (CE)

Section: Sec A	BUILDING MATERIALS AND CONST	Page no: 01 o	
RevisionNo:00	16.0V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-12.00 V.34-1	Approved By : HOD	
	Prepared By: A.KRISHNA PRIYA ard, PPTs, Model	Approved by . II	
No. of Periods	TOPIC	Implemented	Mode of Deliver
No. of Perious	TOFIC	Implemented Dates	Mode of Deliver
UNIT	-I STONES, BRICKS AND TILES	Dates	1
		eniele stomes al	av nuaduata
	ne types and properties of various building mat cement and concrete and their applications in		• •
	G MATERIALS by S.K.Duggal, New Age Pub		y
	G CONSTRUCTION by B.C.Punmia, laxmi publi		
1	Introduction of building stones	10-06-2019	1
2 .	Properties of building stones	12-06-2019	-
3	Properties of building stones	13-06-2019	
4	Relation to their structural requirements	14-06-2019	
5	Classification of stones	14-06-2019	
6	Classification of stones	15-06-2019	
7	Stone quarrying	17-06-2019	Lecture
8	Precautions in blasting	19-06-2019	interspersed with
9	Dressing of stones	20-06-2019	discussions
10	-		
11	Composition of good brick earth various methods of manufacturing of bricks	21-06-2019	
12	various methods of manufacturing of bricks	21-06-2019	
13		22-06-2019	
14	Characteristics of good tiles Manufacturing methods of tiles	24-06-2019	
15	Types of tiles	26-06-2019	
16		27-06-2019	
10	Uses of materials like Aluminum, Gypsum,	28-06-2019	
TIMITE	glass, Bituminous materials & Their quality		
UNIT -			
CO2 Select the	appropriate construction methods to meet the	local conditions	
TR2 BUILDIN	G MATERIALS by S.K.Duggal, New Age Pub	lishers	
17	IG CONSTRUCTION by B.C.Punmia, laxmi p Introduction to masonry)
17	Types of masonry, English and Flemish bonds	29-06-2019	
18	Rubble Masonry	01-07-2019	
19	Ashlar Masonry	03-07-2019	
20	Cavity & partition walls &	04-07-2019	
21	WOOD: Structure	05-07-2019	
22		05-07-2019	Lecture
23	Properties of wood Seasoning of timber	06-07-2019	interspersed with
24		08-07-2019	discussions
	Classification of types of woods used in buildings	10-07-2019	
25	Defects in timber	11-07-2019	
26	Alternative materials for wood Fiber Reinforced Plastics	12-07-2019	

DING CONSTRUCTION by R.Shankar, Falcon		
Int. 1		
Introduction	12-07-2019	
Lime: Various ingredients of lime	15-07-2019	
	17-07-2019	
	18-07-2019	
	19-07-2019	Lecture
	19-07-2019	interspersed with
	20-07-2019	discussions
Hydration Setting times & Fineness of	22-07-2019	
cement		
Various types of cement & their properties	24-07-2019	
A Various field & laboratory tests for Cement	25-07-2019	
Various ingredients of cement concrete &		
Their importance		
Various tests for concrete	26-07-2019	-
Tutorial		
-IV BUILDING COMPONENTS	2. 0. 2019	
arious types expansion and construction joints	and their and	
arious types of stairs and stair cases and their l	and their constr	uction
escapes and also lifts and escalators		nd materials
CONSTRUCTION by B.C.Punmia, laxmi public	cations-2009	
Introduction to building components, Lintels		
Arches		
Arches		
vaults		
		Lecture interspersed
		with discussions
Pitched reaf	24-08-2019	
	26-08-2019	
	28-08-2019	
	29-08-2019	
King post Trusses, Queen post Trusses	30-08-2019	
R.C.C Roofs, Madras Terrace Prefabricated Roofs	30-08-2019	
	Various types of cement & their properties A Various field & laboratory tests for Cement Various ingredients of cement concrete & Their importance Various tests for concrete Tutorial IV BUILDING COMPONENTS the various components of buildings arious types expansion and construction joints arious types of stairs and stair cases and their lescapes and also lifts and escalators. CONSTRUCTION by B.C.Punmia, laxmi public Introduction to building components, Lintels Arches Arches Arches Vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs Flat roofs Lean to roofs Coupled Roofs	classification of lime various methods of manufacture of lime various methods of manufacture of lime various methods of manufacture of lime Cement- portland cement, Chemical Composition of cement Hydration Setting times & Fineness of cement Various types of cement & their properties A Various field & laboratory tests for Cement Various ingredients of cement concrete & Their importance Various tests for concrete Various tests for concrete Tutorial —IV BUILDING COMPONENTS the various components of buildings arious types of stairs and stair cases and their locations, sizes are escapes and also lifts and escalators. CONSTRUCTION by B.C.Punmia, laxmi publications-2009 Introduction to building components, Lintels Arches Arches Arches 16-08-2019 vaults 17-08-2019 stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor "Pitched roofs Flat roofs Lean to roofs Coupled Roofs King poet Travers One Methods

UNIT-V **FINISHINGS** CO4 Describe the various methods of shuttering, scaffolding and centering Select the appropriate' building materials to suit to the structural requirements including exposure conditions TB BUILDING CONSTRUCTION E

Introduction to Coili	ublications-2009
	04-09-2019
Damp Proofing materials and Water proofing materials, Uses	05-09-2019
	Introduction to finishing's Damp Proofing materials and Water

55

Tutorial

	1 Idoloring	06-09-2019	Lecture interspersed
59	Pointing	06-09-2019	with discussions
60°	White washing	07-09-2019	With discussions
61	Distempering	09-9-2019	
62	Paints: Constituents of a paint, Types of paints	11-09-2019	
63	Painting of new /old wood, Varnish	12-09-2019	+
64	Form Work, Scaffoldings	13-09-2019	
65	Classification of aggregate: Coarse& Fine aggregates	16-09-2019	
65	MATERIALS by S.K.Duggal, New Age Pul Classification of aggregate: Coarse& Fine		
66			
67	Particle shape & texture	18-09-2019	
	Strength of aggregates	19-09-2019	т.,
68	Specific gravity	20-09-2019	Lecture interspersed
69	Bulk Density	20-09-2019	with discussions
70	Porosity & Absorption	21-09-2019	
71	Moisture content of Aggregate	23-09-2019	
72	Bulking of sand	25-09-2019	
73	Sieve analysis		
74	Tutorial	26-09-2019 27-09-2019	

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TENTATIVE LESSON PLAN: (CE)

Course Title: Section: Sec &	BUILDING MATERIALS AND CONS	Page no: 01 of	
	Date:10-6-2019	Approved By : HOD	
RevisionNo:00	Prepared By: A.ANOOP KUMAR	Approved by . Its]
Fools: Black Bo		Implemented	Mode of
No. of Periods	TOPIC	Dates	Delivery
UNIT			
clay products, T building indust TB1::BUILDIN	ne types and properties of various building ma Timber, metals, cement and concrete and their ry IG MATERIALS by S.K.Duggal, New Age Pul IG CONSTRUCTION by B.C.Punmia, laxmi publ	applications in	
1	Introduction of building stones	10-6-2019	
2	Properties of building stones	11-6-2019	
3	Properties of building stones	12-6-2019	
4	Relation to their structural requirements	17-6-2019	
5	Classification of stones	18-6-2019	
6	Classification of stones	19-6-2019	Lecture
7	Stone quarrying	20-6-2019	interspersed with
8	Precautions in blasting	21-6-2019	discussions
9	Dressing of stones	22-6-2019	
10	Composition of good brick earth	24-6-2019	
11	various methods of manufacturing of bricks	25-6-2019	
12	various methods of manufacturing of bricks	26-6-2019	
13	Characteristics of good tiles	27-6-2019	
14	Manufacturing methods of tiles	28-6-2019	1
15	Types of tiles	29-6-2019	
16	Uses of materials like Aluminum, Gypsum, glass, Bituminous materials & Their quality	1-7-2019	
UNIT			1
CO2 Select the TB1::BUILDIN	e appropriate construction methods to meet the NG MATERIALS by S.K.Duggal, New Age PunG CONSTRUCTION by B.C.Punmia, laxmi	blishers publications-	_
17	Types of masonry, English and Flemish bonds		
18	Rubble Masonry	3-7-2019	
19	Ashlar Masonry	4-7-2019	
20	Cavity & partition walls &	5-7-2019	
21	WOOD: Structure	6-7-2019	Lastura
22	Properties of wood	9-7-2019	Lecture
23	Seasoning of timber	10-7-2019	interspersed with
24	Classification of types of woods used in buildings	11-7-2019	UISCUSSIONS
	 	12 7 2010	
25	Defects in timber	12-7-2019	

27	Tutorial	18-7-2019	
UNIT	-III LIME AND CEMENT		
B1::BUILD	ING MATERIALS by S.K.Duggal, New Age Publ	ishers	
B2::BUILD	ING CONSTRUCTION by R.Shankar, Falcon pu	blications	
28	Introduction	19-7-2019	
29	Lime: Various ingredients of lime	20-7-2019	
30	Constituents of limestone	22-7-2019	
31	classification of lime	23-7-2019	
32	various methods of manufacture of lime	24-7-2019	Lecture
33	various methods of manufacture of lime	25-7-2019	interspersed with
34	Cement-portland cement, Chemical Composition of cement	26-7-2019	discussions
35	Hydration Setting times & Fineness of cement	27-7-2019	
36	Various types of cement & their properties	29-7-2019	
37	A Various field & laboratory tests for Cement	31-7-2019	
38	Various ingredients of cement concrete & Their importance	01-8-2019	
39	Various tests for concrete	02-8-2019	1
40	Tutorial	03-8-2019	
Describe the onstruction Describe the and material	various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator	cations, sizes	
Describe the onstruction Describe the and material	various types expansion and construction joints a various types of stairs and stair cases and their loss including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publications	cations, sizes rs. ations-2009	
Describe the onstruction Describe the and material	various types expansion and construction joints a various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator	cations, sizes rs. ations-2009	
Describe the onstruction Describe the and material T2 BUILDIN	various types expansion and construction joints a various types of stairs and stair cases and their loss including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publications	cations, sizes rs. ations-2009 16-8-2019 19-8-2019	
Describe the onstruction Describe the and material T2 BUILDIN	various types expansion and construction joints a various types of stairs and stair cases and their loss including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publication	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019	
Describe the onstruction Describe the ond material T2 BUILDIN 41	various types expansion and construction joints a various types of stairs and stair cases and their lo ls including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publica Lintels Arches	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019	
Describe the construction Describe the cond material T2 BUILDIN 41 42 43	various types expansion and construction joints a various types of stairs and stair cases and their lo ls including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publica Lintels Arches vaults	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 22-8-2019	Lecture
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44	various types expansion and construction joints a various types of stairs and stair cases and their lo ls including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publica Lintels Arches vaults stair cases Different types of stair cases Different types of floors	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 22-8-2019 24-8-2019	interspersed with
Describe the construction Describe the cond material T2 BUILDIN 41 42 43 44 45	various types expansion and construction joints a various types of stairs and stair cases and their localist including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publication Lintels Arches vaults stair cases Different types of stair cases	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 22-8-2019 24-8-2019 26-8-2019	Lecture interspersed with discussions
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46	various types expansion and construction joints a various types of stairs and stair cases and their lo ls including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publica Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 22-8-2019 24-8-2019 26-8-2019	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47	various types expansion and construction joints a various types of stairs and stair cases and their locals including fire escapes and also lifts and escalators G CONSTRUCTION by B.C.Punmia, laxmi publicate Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47	various types expansion and construction joints at various types of stairs and stair cases and their loss including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publicated Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor , Pitched roofs Flat roofs	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019 30-8-2019	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47 48 49	various types expansion and construction joints at various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publicated Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor, Pitched roofs Flat roofs Lean to roofs	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019 30-8-2019 31-8-2019	interspersed with
Describe the construction Describe the cond material T2 BUILDIN 41 42 43 44 45 46 47 48 49 50	various types expansion and construction joints at various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publicated Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs Flat roofs Lean to roofs Coupled Roofs King post Trusses, Queen post Trusses R.C.C Roofs, Madras Terrace	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019 30-8-2019 31-8-2019 03-9-2019	interspersed with
Describe the onstruction Describe the and material T2 BUILDIN 41 42 43 44 45 46 47 48 49 50 51	various types expansion and construction joints a various types of stairs and stair cases and their locals including fire escapes and also lifts and escalators G CONSTRUCTION by B.C.Punmia, laxmi publicate Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor Pitched roofs Flat roofs Lean to roofs Coupled Roofs King post Trusses, Queen post Trusses	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019 30-8-2019 31-8-2019 03-9-2019 04-9-2019	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47 48 49 50 51 52	various types expansion and construction joints at various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publicated Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs Flat roofs Lean to roofs Coupled Roofs King post Trusses, Queen post Trusses R.C.C Roofs, Madras Terrace	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 28-8-2019 30-8-2019 31-8-2019 03-9-2019	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47 48 49 50 51 52 53 54 UNI CO4 Describe the aprequirement of the onstruction of the	various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publication Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs Flat roofs Lean to roofs Coupled Roofs King post Trusses, Queen post Trusses R.C.C Roofs, Madras Terrace Prefabricated Roofs Tutorial T -V FINISHINGS be the various methods of shuttering, scaffolding appropriate' building materials to suit to the structures including exposure conditions	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 30-8-2019 31-8-2019 03-9-2019 04-9-2019 ond centering aral	interspersed with
Describe the onstruction Describe the ond material T2 BUILDIN 41 42 43 44 45 46 47 48 49 50 51 52 53 54 UNI CO4 Describe the aprequirement of the onstruction of the	various types expansion and construction joints at various types of stairs and stair cases and their looks including fire escapes and also lifts and escalator G CONSTRUCTION by B.C.Punmia, laxmi publicated Lintels Arches vaults stair cases Different types of stair cases Different types of floors Concrete floor Mosaic floor, Terrazzo floor ,Pitched roofs Flat roofs Lean to roofs Coupled Roofs King post Trusses, Queen post Trusses R.C.C Roofs, Madras Terrace Prefabricated Roofs Tutorial T -V FINISHINGS be the various methods of shuttering, scaffolding appropriate' building materials to suit to the structure.	cations, sizes rs. ations-2009 16-8-2019 19-8-2019 20-8-2019 21-8-2019 24-8-2019 26-8-2019 27-8-2019 30-8-2019 31-8-2019 03-9-2019 04-9-2019 ond centering aral	interspersed with

50	materials, Uses	U/-7-2U17	
57	Plastering	09-9-2019	Lecture
58	Pointing	11-9-2019	interspersed with
59	White washing	12-9-2019	discussions
60	Distempering	13-9-2019	
61	Paints: Constituents of a paint, Types of paints	16-9-2019	
62	Painting of new /old wood, Varnish	17-9-2019	
63	Form Work, Scaffoldings	18-9-2019	
64	Tutorial	19-9-2019	
TB BUILDING	Classification of aggregate: Coarse& Fine	20-9-2019	
	G MATERIALS by S.K.Duggal, New Age Publish		
	aggregates		
66	aggregates Particle shape & texture	21-9-2019	
66 67	Particle shape & texture	21-9-2019 23-9-2019	Lecture interspersed
			Lecture interspersed with discussions
67	Particle shape & texture Strength of aggregates	23-9-2019	
67 68	Particle shape & texture Strength of aggregates Specific gravity Bulk Density	23-9-2019 24-9-2019	
67 68 69	Particle shape & texture Strength of aggregates Specific gravity	23-9-2019 24-9-2019 25-9-2019	
67 68 69 70	Particle shape & texture Strength of aggregates Specific gravity Bulk Density Porosity & Absorption	23-9-2019 24-9-2019 25-9-2019 26-9-2019	
67 68 69 70 71	Particle shape & texture Strength of aggregates Specific gravity Bulk Density Porosity & Absorption Moisture content of Aggregate	23-9-2019 24-9-2019 25-9-2019 26-9-2019	

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TENTATIVE LESSON PLAN: R1621015

RevisionNo:00 Prep. Tools: Black Board, P. No. of Periods UNIT -I INTRODUCT CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	TOPIC TION: the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)	Page no: 01 of Approved By: Hold Implemented Dates Age Publishers 10-6-2019	
Tools: Black Board, P No. of Periods UNIT –I INTRODUCT CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	TOPIC TION: the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)	Implemented Dates Age Publishers	Mode of
No. of Periods UNIT -I INTRODUC' CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	TOPIC TION: the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)	Dates Age Publishers	
UNIT -I INTRODUCT CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	TION: the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)	Dates Age Publishers	
CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)	ge Publishers	Delivery
CO1: To demonstrate TB1::TEXT BOOK O TB2:: SURVEYING v 1 Defin surve 2 Over	the basic surveying skills F SURVEYING by S.K.Duggal, New A ol 1&2 by B.C.Punmia e of surveying, Over view of plane ying(chain)		
1 Defin surve 2 Over	e of surveying, Over view of plane ying(chain)	10-6-2019	
surve 2 Over	ying(chain)		
Over			
3 Over	view of plane surveying(compass)	18-6-2019	
	view of plane surveying(plane table)	19-6-2019	+
4 Objec	tives of surveying	20-6-2019	1
5 Princi	ples and classifications	21-6-2019	-
6 Errors	in survey measurements	24-6-2019	Lecture
7 Proble	ems on chain	26-6-2019	interspersed with
8 Proble	ems on chain	28-6-2019	discussions
9 Proble	ems on chain	29-6-2019	-
10 Proble	ems on errors in survey measurements	1-7-2019	-
11 Proble	ems on errors in survey measurements	3-7-2019	_
BZ:: SURVEYING VO	F SURVEYING by S.K.Duggal, New Ag	ge Publishers	
17 Electro	onic distance measurements	6-7-2019	
18 Princip	oles of electro optical EDM	7-7-2019	+
19 Errors	and corrections to linear measurements	9-7-2019	
20 Compa bearing	ass survey ,meridians, azimuths and	10-7-2019	
21 Declina	ation and computation of angle	10-7-2019	Lecture
Travers	sing -purpose, types of traverse	11-7-2019	interspersed with
23 Travers	se computation- traverse adjustments	11-7-2019	discussions
24 Introdu	action to omitted measurements	12-7-2019	aiscussions
25 Probler	ms on compass (closed traverse and	12-7-2019	
open tr	averse)	12-7-2019	
	ns on compass	15-7-2019	
26 Problem	ns on distances and directions		
26 Problem 27 Problem	is on distances and directions	16-7-2010	
26 Problem 27 Problem VNIT –III	LEVELING AND COUNTOLISING	16-7-2019	
26 Problem 27 Problem NIT –III CO3: To perform vario	LEVELING AND COUNTOURING		
26 Problem 27 Problem NIT –III CO3: To perform vario	LEVELING AND COUNTOURING ous methods of surveying SURVEYING by S.K. Duggel, New Acceptable		

Introduction	17-7-2019	
Concept and terminology	18-7-2019	
Leveling instrument	19-7-2019	
Temporary and permanent adjustments of leveling	20-7-2019	Lecture
Introduction of contours	22-7-2019	interspersed with
Characteristics and uses of contours	23-7-2019	discussions
Methods conducting contour survey	25-7-2019	-
Problems on HI method	26-7-2019	
Problems on rise and fall method	27-7-2019	
Problems on distance and elevation method		
	Concept and terminology Leveling instrument Temporary and permanent adjustments of leveling Introduction of contours Characteristics and uses of contours Methods conducting contour survey Problems on HI method Problems on rise and fall method	Concept and terminology 18-7-2019 Leveling instrument 19-7-2019 Temporary and permanent adjustments of leveling 20-7-2019 Introduction of contours 22-7-2019 Characteristics and uses of contours 23-7-2019 Methods conducting contour survey 25-7-2019 Problems on HI method 26-7-2019 Problems on rise and fall method 27-7-2019 Problems on distance and elevation method 29-7-2019

THEODOLITE

CO4: To compute various data required for various methods of surveying TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

41	Description of theodolite	9-8-2019	
42	Principles and uses	9-8-2019	-
43	Adjustments-temporary and permanent	13-8-2019	1
44	Measurements of horizontal angles	14-8-2019	1
45	Measurements of vertical angles	16-8-2019	_
46	Principles of electronic theodolite	17-8-2019	Lecture
47	Introduction to trigonometric leveling	28-8-2019	interspersed with discussions
48	Tangential methods of tachometry	30-8-2019	- albeassions
49	Distance and elevation formulae for staff held in vertical position	30-8-2019	
50	Distance and elevation formulae for staff held in vertical position	31-8-2019	

CURVES

CO5: To integrate the knowledge and produce topographical maps

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

55	Introduction		
56		03-9-2019	
	Types of curves	04-9-2019	
57	Design and setting out- simple curve	05-9-2019	
58	Design and setting out- compound curve		
59	Introduction to geodetic surveying	6-9-2019	Lecture
60	Total station and GPS	6-9-2019	interspersed with
61		9-9-2019	discussions
	Problems simple curve	11-9-2019	
62	Problems compound curve		
IINIT VIC	OMBYIM I STATE	12-9-2019	

UNIT -VI COMPUTATION OF AREAS AND VOLUMES

CO6: To integrate the knowledge and produce topographical maps

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

65	Introduction :areas from field notes	16-9-2019	
66	Computation of areas along irregular boundaries	17-9-2019	
67	Computation of areas along regular boundaries	18-9-2019	Lecture interspersed
68	Embankments and cutting for a level section	19-9-2019	with discussions
69	Two level section with and without transverse slopes	20-9-2019	
70	Determination of the capacity of reservoir	24-9-2019	1
71	Volume of barrow pits	25-9-2019	1
72	Problems volume of barrow pits	26-9-2019	
73	Problems volume of barrow pits	27-9-2019	

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Course Title:	SURVEYING (R1621015)		
Section: Sec B	tion: Sec B Date: 10-6-2019 Page no: 01 of 0		03
RevisionNo:00	Prepared By: K. RUPA SRI	Approved By : HOD	
Tools: Black Bo	oard, PPTs, Model		
No. of Periods	TOPIC	Implemented Dates	Mode of Delivery
	OOK OF SURVEYING by S.K.Duggal, New A	Age Publishers	
	OOK OF SURVEYING by S.K.Duggal, New A VING vol 1&2 by B.C.Punmia	Age Publishers	
	Orange of Surveying, Over view of plane	Age Publishers	
TB2:: SURVEY	Oliver View of plane Define of surveying, Over view of plane		
TB2:: SURVEY	Define of surveying, Over view of plane surveying (chain) Over view of plane surveying (compass)	10-6-2019	
1 2	Define of surveying, Over view of plane surveying (chain)	10-6-2019 18-6-2019	
1 2 3	Define of surveying, Over view of plane surveying (chain) Over view of plane surveying (compass) Over view of plane surveying (plane table)	10-6-2019 18-6-2019 19-6-2019	Lecture
1 2 3 4	Over view of plane surveying (compass) Over view of plane surveying (plane table) Objectives of surveying	10-6-2019 18-6-2019 19-6-2019 20-6-2019	Lecture interspersed wi

26-6-2019

28-6-2019

29-6-2019

1-7-2019

3-7-2019

discussions

UNIT-II DISTANCES AND DIRECTIONS

Problems on chain

Problems on chain Problems on chain

CO2: To use various surveying instruments

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

Problems on errors in survey measurements

Problems on errors in survey measurements

TB2:: SURVEYING vol 1&2 by B.C.Punmia

17	Electronic distance measurements	6-7-2019	
18	Principles of electro optical EDM	7-7-2019	
19	Errors and corrections to linear measurements	9-7-2019	
20	Compass survey ,meridians, azimuths and	10-7-2019	
	bearings		
21	Declination and computation of angle	10-7-2019	Lecture
22	Traversing –purpose, types of traverse	11-7-2019	interspersed with
23	Traverse computation- traverse adjustments	11-7-2019	discussions
24	Introduction to omitted measurements	12-7-2019	
25	Problems on compass (closed traverse and open traverse)	12-7-2019	
26	Problems on compass	15-7-2019	
27	Problems on distances and directions	16-7-2019	

UNIT-III

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11

LEVELING AND COUNTOURING

CO3: To perform various methods of surveying

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

	D4::	STIRE	VF.	THET	VIII	1024 11	у р.С.Гинша
_				1110	7 0 4	Teca o	TO COL MANAGE

28	Introduction	17-7-2019	
29	Concept and terminology	18-7-2019	
30	Leveling instrument	19-7-2019	
31	Temporary and permanent adjustments of	20-7-2019	
	leveling		Lecture
32	Introduction of contours	22-7-2019	interspersed with
33	Characteristics and uses of contours	23-7-2019	discussions
34	Methods conducting contour survey	25-7-2019	
35	Problems on HI method	26-7-2019	
36	Problems on rise and fall method	27-7-2019	
37	Problems on distance and elevation method	29-7-2019	
38	Problems on distance and elevation method	1-8-2019	

UNIT IV THEODOLITE

CO4: To compute various data required for various methods of surveying

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

41	Description of theodolite	9-8-2019	
42	Principles and uses	9-8-2019	
43	Adjustments-temporary and permanent	13-8-2019	
44	Measurements of horizontal angles	14-8-2019	
45	Measurements of vertical angles	16-8-2019	Lecture
46	Principles of electronic theodolite	17-8-2019	interspersed with
47	Introduction to trigonometric leveling	28-8-2019	discussions
48	Tangential methods of tachometry	30-8-2019	
49	Distance and elevation formulae for staff held	30-8-2019	
	in vertical position		
50	Distance and elevation formulae for staff held	31-8-2019	
	in vertical position		

UNIT-V CURVES

CO5: To integrate the knowledge and produce topographical maps

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

55	Introduction	03-9-2019	
56	Types of curves	04-9-2019	
57	Design and setting out- simple curve	05-9-2019	
58	Design and setting out- compound curve	6-9-2019	Lecture
59	Introduction to geodetic surveying	6-9-2019	interspersed with
60	Total station and GPS	9-9-2019	discussions
61	Problems simple curve	11-9-2019	
62	Problems compound curve	12-9-2019	

UNIT-VI COMPUTATION OF AREAS AND VOLUMES

CO6: To integrate the knowledge and produce topographical maps

TB1::TEXT BOOK OF SURVEYING by S.K.Duggal, New Age Publishers

TB2:: SURVEYING vol 1&2 by B.C.Punmia

1 65	Introduction :areas from field notes	16-9-2019	
66	Computation of areas along irregular boundaries	17-9-2019	
67	Computation of areas along regular boundaries	18-9-2019	Lecture interspersed with discussions
68	Embankments and cutting for a level section	19-9-2019	
69	Two level section with and without transverse slopes	20-9-2019	
70	Determination of the capacity of reservoir	24-9-2019	
71	Volume of barrow pits	25-9-2019	
72	Problems volume of barrow pits	26-9-2019	
73	Problems volume of barrow pits	27-9-2019	

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PRINCIPAL

Signature of the HOD 20 11119

SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSON PLAN: CIVIL R1621016

FLUID MECHANICS

Course Title: FLUID MECHANICS (CIVIL)				
Section: Sec A	Date: 10-06-2019	Page No: 01 of 03		
Revision No: 00	Prepared By: J PURNA CHANDRA RAO	Approved By: HOD		

Tools: Black board, power point presentations

No. of Periods	TOPIC	Tentative date	Mode of Delivery
	UNIT 1: INTRODUCTION TO FLUID M	ECHANICS	
CO1: UN	DERSTAND THE VARIOUS PROPERTIES OF FLUIDS AND	THEIR INFLUENCE	ON FLUID MOTION
TB: 1	FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.I	K. BANSAL -LAXMI	PUBLICATIONS
1	Properties of fluid	12/06/2019	
2	Gravity, viscosity, surface tension, vapour pressure	13/06/2019	and the state of t
3	Numerical problems	17/06/2019	
4	Mechanics of fluid motion	18/06/2019	
5	Pressure at point, Pascal's law	19/06/2019	
6	Hydraulic law-atmospheric, gauge and vacuum pressures	20/06/2019	Ī
7	Numerical problems	24/06/2019	Lecture intersperse
8	Measurement of pressure	25/06/2019	with discussions
9	Pressure gauges	26/06/2019	discussions
10	Differential and Micro manometers	27/06/2019	
11	Numerical problems	28/06/2019	
12	Mechanical gauges	29/06/2019	
13	Tutorial	01/07/2019	

UNIT 2: HYDROSTATICS AND FLUID KINEMATICS CO2: CALCULATE THE FORCES THAT ACT ON SUBMERGED PLANES AND CURVES.

TB: FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K. BANSAL -LAXMI PUBLICATIONS

14	Hydrostatics- Introduction	02/07/2019	
15	Hydrostatic law, Total Pressure Center of pressure	03/07/2019	
16	Moments of Inertia, Geometric properties	04/07/2019	Lecture interspersed with discussions
17	Hydrostatic forces on submerged plane-Horizontal	05/07/2019	
18	Hydrostatic forces on submerged plane-Vertical	06/07/2019	
19	Hydrostatic forces on submerged plane-Inclined	08/07/2019	
20	Hydrostatic forces on submerged Curved Surface	10/07/2019	
21	Numerical problems	11/07/2019	
22	Archimedes Principle, Metacenter	12/07/2019	
23	Fluid flow, stream, streak, path line	12/07/2019	
24	15.07.101 Classification of flows	15/07/2019	
25	Continuity equation- 1,2,3 D	16/07/2019	

26	Flow Nets	17/07/2019	
27	Numerical problems	18/07/2019	
28	Stream and velocity potential function	19/07/2019	A STATE OF THE STA
29	Tutorial	20/07/2019	
	UNIT 3: FLUID DYNAMIC		C
TB: F	CO3: IDENTIFY AND ANALYSE VARIOUS TYP LUID MECHANICS AND HYDRAULIC MECHANICS BY R		
30	Fluid Dynamics - Surface and body forces	22/07/2019	
31	Euler's equation of motion	23/07/2019	
32	Bernoulli's equation	24/07/2019	
33	Numerical problems	24/07/2019	Lecture intersperse
34	Momentum equation	25/07/2019	with discussions
35	Forces on Pipe bend	26/07/2019	
36	Numerical problems & Applications	29/07/2019	
37	Tutorials	30/07/2019	_
TB: F	LENT AND LAMINAR FLOW THROUGH PIPES AND DUC PRESSURES, VELOCITIES AND I LUID MECHANICS AND HYDRAULIC MECHANICS BY R	FORCES. R.K. BANSAL -LAXM	
38	Flows-Reynolds experiment	31/07/2019	
39	Characteristics of laminar and turbulent flow	31/07/2019	
40	Shear and velocity distribution	01/08/2019	1400
41	Laws, Hagen Poiseuille's formula	02/08/2019	
42	Flow between plates	03/08/2019	
43	Long tubes, problems	05/08/2019	
44	Hydrodynamically smooth and rough boundary	06/08/2019	
45	Darcy's equation	07/08/2019	Lecture intersperse
46	Flow through Pipes and Major, minor losses	08/08/2019	with discussions
47	Pipes in series, parallel	09/08/2019	
48	Hardy Cross method	13/08/2019	_
49	TEL, HGL, moody chart	14/08/2019	
50	Equivalent Pipes	26/08/2019	
51	Numerical Problems	27/08/2019	
52	Tutorials	28/08/2019	
	UNIT 5: MEASUREMENT OF I CO5: MEASURE THE QUANTITIES OF FLUID FLOWING I LUID MECHANICS AND HYDRAULIC MECHANICS BY F	N PIPES, TANK AND	
	Measurement Of Flow-Pitot tube		III ODLICATIONS
53	Measurement of Plow-1 hot tuoc	29/08/2019	
51	Orificamatan	20/00/2010	Lecture intersperse
54	Orificemeter	30/08/2019	with discussions
55	Venturimeter	31/08/2019	Lecture intersperse with discussions

Problems

05/09/2019

58

59	V- notch	06/09/2019
60	Problems	07/09/2019
61	Trapezoidal, stepped	09/09/2019
62	Numerical Problems	11/09/2019
63	Numerical Problems	12/09/2019
64	Broad crested weir	16/09/2019
65	Problems	17/09/2019
66	Tutorial	18/09/2019

UNIT 6: BOUNDARY LAYER THEORY

CO6: KNOW THE CONCEPT OF BOUNDARY LAYER THEORY

TB: FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K. BANSAL -LAXMI PUBLICATIONS

67	Boundary Layer Theory	19/09/2019	
68	Concept, Prandtl contribution	20/09/2019	
69	Characteristics of B.L	21/09/2019	
70	Thickness of B.L	23/09/2019	
71	Vonkarman Integral Equation	24/09/2019	Lecture interspersed
72	Seperation, control of B.L	25/09/2019	with discussions
73	Drag, lift, Magnus effect	25/09/2019	
74	Numerical Problems- Tutorial	26/09/2019	
75	Summary on FM & Old Question papers	26/09/2019	

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Signature of the HOD

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SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

TENTATIVE LESSON PLAN: CIVIL R1621016

FLUID MECHANICS

	Course Title: FLUID MECHANICS (CIV	IL)
Section: Sec B	Date: 10-06-2019	Page No: 01 of 03
Revision No: 00	Prepared By: J PURNA CHANDRA RAO	Approved By: HOD

Tools: Black board, power point presentations

No. of Periods	TOPIC	Tentative date	Mode of Delivery
*	UNIT 1: INTRODUCTION TO FLUID M		
	IDERSTAND THE VARIOUS PROPERTIES OF FLUIDS AND		
TB:	FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.	K. BANSAL -LAXMI I	PUBLICATIONS
1	Properties of fluid	12/06/2019	
2	Gravity, viscosity, surface tension, vapour pressure	13/06/2019	
3	Numerical problems	17/06/2019	
4	Mechanics of fluid motion	18/06/2019	
5	Pressure at point, Pascal's law	19/06/2019	
6	Hydraulic law-atmospheric, gauge and vacuum pressures	20/06/2019	Lecture interspersed with discussions
7	Numerical problems	24/06/2019	
8	Measurement of pressure	25/06/2019	
9	Pressure gauges	26/06/2019	
10	Differential and Micro manometers	27/06/2019	
11	Numerical problems	28/06/2019	
12	Mechanical gauges	29/06/2019	
13	Tutorial	01/07/2019	
	THE PROPERTY OF THE PROPERTY O		

UNIT 2: HYDROSTATICS AND FLUID KINEMATICS

CO2: CALCULATE THE FORCES THAT ACT ON SUBMERGED PLANES AND CURVES.

TB: FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K. BANSAL -LAXMI PUBLICATIONS

14	Hydrostatics- Introduction	02/07/2019	
15	Hydrostatic law, Total Pressure Center of pressure	03/07/2019	
16	Moments of Inertia, Geometric properties	04/07/2019	Lecture interspersed with discussions
17	Hydrostatic forces on submerged plane-Horizontal	05/07/2019	
18	Hydrostatic forces on submerged plane-Vertical	06/07/2019	
19	Hydrostatic forces on submerged plane-Inclined	08/07/2019	
20	Hydrostatic forces on submerged Curved Surface	10/07/2019	
21	Numerical problems	11/07/2019	
22	Archimedes Principle, Metacenter	12/07/2019	
23	Fluid flow, stream, streak, path line	12/07/2019	
24	Classification of flows	15/07/2019	
25	Continuity equation- 1,2,3 D	16/07/2019	

26	Flow Nets	17/07/2019	
27	Numerical problems	18/07/2019	
28	Stream and velocity potential function	19/07/2019	
29	Tutorial	20/07/2019	
	UNIT 3: FLUID DYNAMICS CO3: IDENTIFY AND ANALYSE VARIOUS TYPE FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K	L. BANSAL -LAXM	
30	Fluid Dynamics - Surface and body forces	22/07/2019	
31	Euler's equation of motion	23/07/2019	
32	Bernoulli's equation	24/07/2019	
33	Numerical problems	24/07/2019	Lecture interspersed
34	Momentum equation	25/07/2019	with discussions
35	Forces on Pipe bend	26/07/2019	
36	Numerical problems & Applications	29/07/2019	
37	Tutorials	30/07/2019	
TB: 1	FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K Flows-Reynolds experiment	X. BANSAL -LAXM 31/07/2019	II PUBLICATIONS
TB: I			II PUBLICATIONS
39	Characteristics of laminar and turbulent flow	31/07/2019	_
40	Shear and velocity distribution	01/08/2019	_
41	Laws, Hagen Poiseuille's formula	02/08/2019	
42	Flow between plates	05/08/2019	
43	Long tubes, problems	06/08/2019	
44	Hydrodynamically smooth and rough boundary	07/08/2019	_
45	Darcy's equation	08/08/2019	Lecture interspersed
46	Flow through Pipes and Major, minor losses	09/08/2019	with discussions
47	Pipes in series, parallel	13/08/2019	
48	Hardy Cross method	14/08/2019	
49	TEL, HGL, moody chart	26/08/2019	_
50	Equivalent Pipes Numerical Problems	27/08/2019	
51 52	Tutorials	28/08/2019	
32	UNIT 5: MEASUREMENT OF FL		
	CO5: MEASURE THE QUANTITIES OF FLUID FLOWING IN FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.F.	PIPES, TANK AND	
53	Measurement Of Flow-Pitot tube	29/08/2019	
54	Orificemeter	30/08/2019	Lecture interspersed
55	Venturimeter	31/08/2019	with discussions
		03/09/2019	
	Classification of orifice	03/09/2019	
56	Classification of orifice Flow over rectangular notch	04/09/2019	15/0/

59	V- notch	06/09/2019
60	Problems	07/09/2019
61	Trapezoidal, stepped	09/09/2019
62	Numerical Problems	11/09/2019
63	Numerical Problems	12/09/2019
64	Broad crested weir	16/09/2019
65	Problems	17/09/2019
66	Tutorial	18/09/2019

UNIT 6: BOUNDARY LAYER THEORY

CO6: KNOW THE CONCEPT OF BOUNDARY LAYER THEORY

TB: FLUID MECHANICS AND HYDRAULIC MECHANICS BY R.K. BANSAL -LAXMI PUBLICATIONS

67	Boundary Layer Theory	19/09/2019	
68	Concept, Prandtl contribution	20/09/2019	
69	Characteristics of B.L	21/09/2019	
70	Thickness of B.L	23/09/2019	
71	Vonkarman Integral Equation	24/09/2019	Lecture interspersed
72	Seperation, control of B.L	25/09/2019	with discussions
73	Drag, lift, Magnus effect	25/09/2019	
74	Numerical Problems- Tutorial	26/09/2019	
75	Summary on FM & Old Question papers	26/09/2019	

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TENTATIVELESSON PLAN: R1631011

Section:CI	V_R	Date:10-6-19	Page No: 01 of 0	2
Revision N		Prepared By: Indraja.M	Approved By: H	OD
Tools: Black		11000111129		
No. of Periods (Actual Taken)		TOPIC	Date (Taught on)	Mode of Delivery
UNIT –I		duction to Management		
leadership sty	yles	stand the concept and nature of management, even	aluation of management theories	, motivation and
		ri, Management Science'TMH 2011.	10-6-2019	
1		duction to management re & importance of management	11-6-2019	
3		ric function of management	12-6-2019	
4		nation of management thoughts	13-6-2019	
5		vation theories	14-6-2019	Lecture
6	2.20 02	sion making process	15-6-2019	interspersed
7		gning organization structure	17-6-2019	with
8		iples & types of organization	18-6-2019	discussions
9		nization typology	19-6-2019	
10		al leadership	20-6-2019	
			21 (2010	
CO2:: Abl	Operation le to equi	ripals and types of management ns Management p with concepts of operations, project management ri. Management Science'TMH 2011.	21-6-2019 ent and inventory control	
UNI -II: C	Operation le to equing R. Aryası	ns Management p with concepts of operations, project management, Management Science'TMH 2011.	ent and inventory control	
UNI -II: (CO2:: Abl TB:Dr. A. 1	Operation le to equi R. Aryası World	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study	ent and inventory control 22-6-2019	
UNI -II: (CO2:: Abl TB:Dr. A. 12	Operation le to equi R. Aryassi World Stati	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control	22-6-2019 24-6-2019	
UNI -II: (CO2:: Abl TB:Dr. A. 12 13 14	Operatio le to equi R. Aryası Worl Stati	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts	22-6-2019 24-6-2019 25-6-2019	Lecture
UNI -II: 0 CO2:: Abl TB:Dr. A. 1 12 13 14 15	Operatio le to equi R. Aryass Worl Stati Cont	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts	22-6-2019 24-6-2019	interspersed
UNI -II: CCO2:: Abl TB:Dr. A. 12 13 14 15	Operatio le to equi R. Aryass Worl Stati Cont Prob	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management	22-6-2019 24-6-2019 25-6-2019 26-6-2019	interspersed with
UNI -II: (CO2:: Abl TB:Dr. A. 1 12 13 14 15 16 17	Prob Mate	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019	interspersed with
UNI -II: CCO2:: Abl TB:Dr. A. 12 13 14 15	Prob Mate	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019	interspersed
UNI -II: CCO2:: Abi TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-III:	Prob Need Prob Functions	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control O And ABC Analysis elems On EOQ al management erstand the different functional areas in an organical management.	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019	interspersed with discussions
UNI -II: CCO2:: Abi TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-III: CCO3: Abi and channel	Prob Function ste to under station Station Prob Mate Accord Prob Function station Accord Accor	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control O And ABC Analysis elems On EOQ al management erstand the different functional areas in an organical management.	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 mization and their responsibilitie	interspersed with discussions
UNI -II: CCO2:: Abi TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-III: CCO3: Abi and channel	Prob Functions e to under the control of the contro	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control Q And ABC Analysis lems On EOQ al management erstand the different functional areas in an organibution.	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019	interspersed with discussions
UNI -II: CCO2:: Abl TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-II: CCO3: Abl and channel TB: Dr. A	Prob Prob Function e to under R. Aryass Worl Stati Cont Prob Mate Prob Function e to under Is of distr R. Arya Cont	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control And ABC Analysis elems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 mization and their responsibilitie	interspersed with discussions
UNI -II: 0 CO2:: Abl TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-III: F CO3: Abl and channel TB: Dr. A 21 22	Prob Need Prob Functions e to under soft districtions Functions Functions Functions Functions Functions Functions	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control O And ABC Analysis lems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR ctions of HRM	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 anization and their responsibilitie	interspersed with discussions
UNI -II: CCO2:: Abi TB:Dr. A. 1 12 13 14 15 16 17 19 20 UNIT-III: CCO3: Abi and channel TB: Dr. A 21 22 23	Prob Function e to under the cont R. Aryass Worl Stati Cont Prob Mate EOC Prob Function e to under the cont R. Arya Cont Wag Wag	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control And ABC Analysis lems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR etions of HRM ge payment plans	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 mization and their responsibilities 4-7-2019 5-7-2019	interspersed with discussions
UNI -II: 0 CO2:: Abl TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-II: F CO3: Abl and channel TB: Dr. A 21 22	Prob Need E to under Statine R. Aryass Cont Prob Mate Need FOC Prob Functions e to under s of distr R. Arya Cone Functions Here Substitute Substitute Red Substitute Substitute Red Substitute Substitute Red Substitute Su	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control O And ABC Analysis lems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR ctions of HRM ge payment plans evolution Vs merit rating	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 anization and their responsibilities 4-7-2019 5-7-2019 6-7-2019	interspersed with discussions s- product life cyc Lecture intersperse
UNI -II: CCO2:: Abl TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-II: FCO3: Abl and channel TB: Dr. A 21 22 23 24 25	Prob Functions e to under soft distr R. Aryass Worl Stati Cont Prob Mate Rec EOC Prob Functions e to under s of distr R. Arya Cont Func Wag Job Mar	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control And ABC Analysis elems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR etions of HRM ge payment plans evolution Vs merit rating keting management functions	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 anization and their responsibilities 4-7-2019 5-7-2019 8-7-2019	interspersed with discussions s- product life cyc Lecture intersperse with
UNI -II: 0 CO2:: Abl TB:Dr. A. 1 12 13 14 15 16 17 19 20 UNIT-II: E CO3: Abl and channel TB: Dr. A 21 22 23 24 25 26	Prob Need Prob Functions R. Aryass Cont Prob Mate Red For Prob Mate Aryass Cont Prob Mate Aryass Functions R. Arya Cont Functions R. Arya Arya Arya Arya Arya Arya Arya Arya	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control Q And ABC Analysis lems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR etions of HRM ge payment plans evolution Vs merit rating keting management functions keting strategies based on plc	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 mization and their responsibilities 4-7-2019 5-7-2019 8-7-2019 9-7-2019	interspersed with discussions s- product life cyc Lecture intersperse with
UNI -II: 0 CO2:: Abl TB:Dr. A. 12 13 14 15 16 17 19 20 UNIT-II: F CO3: Abl and channel TB: Dr. A 21 22 23 24 25	Prob Need Prob Need Functions to under so distr R. Aryass Cont Prob Mate Need For Prob Mate Need For Prob Mate Need For Prob Mate Need For Prob Mate Need And And And And And And And And And An	ns Management p with concepts of operations, project management, Management Science'TMH 2011. k study stical quality control rol charts lems On Control Charts erial Management d For Inventory Control And ABC Analysis elems On EOQ al management erstand the different functional areas in an organibution. sri, Management Science'TMH 2011 cept of HRM,HRD and PMIR etions of HRM ge payment plans evolution Vs merit rating keting management functions	22-6-2019 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 anization and their responsibilities 4-7-2019 5-7-2019 8-7-2019 9-7-2019	interspersed with discussions s- product life cyc Lecture intersperse

	CPM and project crashing		
	. R. Aryasri, Management Science'TMH 2011	16-7-2019	<u> </u>
30	Introduction to PERT and CPM		_
31	Development of network diagram	19-7-2019	
32	Difference between pert and CPM	20-7-2019	
33	Identifying critical part	22-7-2019	
34	Probability	23-7-2019	Lecture
35	Project crashing simple problems	24-7-2019	interspersed with
36	Problems	25-7-2019	discussions
C O5:: Ab ГВ :: Dr.	trategic Management ble to equip with the concept and practical issues relating to strat A. R. Aryasri, Management Science'TMH 2011		
37	Vision, mission, goals and strategy	25-7-2019	
38	Elements of corporate planning process	26-7-2019	
39	SWOT analysis	26-7-2019	
40	Steps in strategic formulation and implementation	29-7-2019	Lecture interspersed
41	Generic strategy and global strategy	29-7-2019	with discussions
42	Theories of MNCs	30-7-2019	discussions
43	Environmental scanning	31-7-2019	
	Contemporary Management Practices ble to equip with the contemporary management practices, a. R. Aryasri, Management Science'TMH 2011		
TB::Dr. A	Pagia concents of MIC	1_8_2010	
TB:: Dr. A	Basic concepts of MIS	1-8-2019	
TB:: Dr. A	Total quality management	2-8-2019	
TB:: Dr. A 44 45 46	Total quality management Six sigma	2-8-2019 3-8-2019	
TB::Dr. A 44 45 46 47	Total quality management Six sigma Supply chain management	2-8-2019 3-8-2019 13-8-2019	
44 45 46 47 48	Total quality management Six sigma Supply chain management Enterprise resource planning	2-8-2019 3-8-2019 13-8-2019 14-8-2019	Lecture
44 45 46 47 48 49	Total quality management Six sigma Supply chain management Enterprise resource planning Business process outsources	2-8-2019 3-8-2019 13-8-2019 14-8-2019 16-8-2019	interspersed
44 45 46 47 48 49 50	Total quality management Six sigma Supply chain management Enterprise resource planning Business process outsources Business process re-engineering	2-8-2019 3-8-2019 13-8-2019 14-8-2019 16-8-2019 17-8-2019	interspersed with
44 45 46 47 48 49	Total quality management Six sigma Supply chain management Enterprise resource planning Business process outsources	2-8-2019 3-8-2019 13-8-2019 14-8-2019 16-8-2019	interspersed
44 45 46 47 48 49 50	Total quality management Six sigma Supply chain management Enterprise resource planning Business process outsources Business process re-engineering	2-8-2019 3-8-2019 13-8-2019 14-8-2019 16-8-2019 17-8-2019	interspersed with
44 45 46 47 48 49 50	Total quality management Six sigma Supply chain management Enterprise resource planning Business process outsources Business process re-engineering Bench Marking	2-8-2019 3-8-2019 13-8-2019 14-8-2019 16-8-2019 17-8-2019	interspersed with

M. Indraja Signature of the Faculty

PRINCIPAL

Signature of the HOD

TENTATIVELESSON PLAN: R1631011

Section:CI	V-A	Date:	Page No: 01 of 0)2
Revision N	lo:00	Prepared By: Indraja.M	Approved By: H	
Tools: Black	board			
No. of Periods (Actual		TOPIC	Date (Taught on)	Mode of Delivery
Taken)				
leadership sty	to unders /les	luction to Management tand the concept and nature of management, eva i, Management Science'TMH 2011.	duation of management theories	, motivation and
1		uction to management	10-6-2019	
2	Nature	e & importance of management	11-6-2019	
3	Gener	ic function of management	12-6-2019	
4		ation of management thoughts	13-6-2019	
5		ation theories	14-6-2019	Lecture
6	Decisi	on making process	15-6-2019	interspersed
7		ning organization structure	17-6-2019	with
8	Princi	ples & types of organization	18-6-2019	discussions
9		ization typology	19-6-2019	
10	Globa	l leadership	20-6-2019	
11	Princip	pals and types of management	21-6-2019	
12 13	Work	study ical quality control	22-6-2019 24-6-2019	
A Secretary of the Contract of				
14		ol charts	25-6-2019	
15	20100	ems On Control Charts	26-6-2019	Lecture
16		al Management	27-6-2019	interspersed
17	A STATE OF THE PARTY OF THE PAR	For Inventory Control	28-6-2019	with
19		And ABC Analysis	29-6-2019	discussions
20		ms On EOQ	1-7-2019	
CO3: Able and channels TB: Dr. A. F	to unders of distrib R. Aryasri	, Management Science'TMH 2011		- product life cyc
21	-	pt of HRM,HRD and PMIR	4-7-2019	
22	Functi	ons of HRM	5-7-2019	
23	Wage	payment plans	6-7-2019	
24	Job ev	olution Vs merit rating	8-7-2019	Lecture
25		ting management functions	9-7-2019	interspersed
26		ting strategies based on plc	9-7-2019	with
27		els of distribution	9-7-2019	discussions
28		ional change management	12-7-2019	
29	Funcin	ons of marketing	15-7-2019	

	e toequip with different techniques in project management, i.e, CPM and project crashing		
Γ B : Dr. A.	R. Aryasri, Management Science'TMH 2011		
30	Introduction to PERT and CPM	16-7-2019	
31	Development of network diagram	19-7-2019	
32	Difference between pert and CPM	20-7-2019	
33	Identifying critical part	22-7-2019	
34	Probability	23-7-2019	Lecture
35	Project crashing simple problems	24-7-2019	interspersed with
36	Problems	25-7-2019	discussions
C O5:: Ab	trategic Management ble to equip with the concept and practical issues relating to stra A. R. Aryasri, Management Science'TMH 2011		
37	Vision, mission, goals and strategy	25-7-2019	
38	Elements of corporate planning process	26-7-2019	
39	SWOT analysis	26-7-2019	
40	Steps in strategic formulation and implementation	29-7-2019	Lecture interspersed with
41	Generic strategy and global strategy	29-7-2019	discussions
42	Theories of MNCs	30-7-2019	discussions
43	Environmental scanning	31-7-2019	
CO6:: Al TB::Dr. A	Contemporary Management Practices ole to equip with the contemporary management practices, a. R. Aryasri, Management Science TMH 2011	110000	
44	Basic concepts of MIS	1-8-2019	
45	Total quality management	2-8-2019	
46	Six sigma	3-8-2019	
47	Supply chain management	13-8-2019	
48	Enterprise resource planning	14-8-2019	Lecture
49	Business process outsources	16-8-2019	interspersed
50	Business process re-engineering	17-8-2019	with
51	Bench Marking	19-8-2019	discussions
52	Balanced Score Card	20-8-2019	
		21.0.2010	
53	Material Requirement Planning	21-8-2019	

M. Indraja Signature of the Faculty

> SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108

Signature of the HOP

THE PERSON TO THE	ENGINEERING GEOLOGY c A Date: 10-6-2019		Page No: 01	of 03
Section : S	: 00 Prepared By :Dr.T.Satyana	arvana	Approved By	
Tools: Black h		ar y arra		
No. of Periods	TOPIC		Date	Mode of Delivery
	Introduction			
minerals T1 Enginee	dent will be able to understand the	u, Laxmi Publication	s,	y the geologica
The state of the s	ring Geology, Subinoy Gangopa	unay, Oxidia Oniver	10-6-2019	
1	Introduction	Dramahag of	11-6-2019	
2	Definition of geology and vario	us Branches of	11 0 2017	
	Geology		12-6-2019	
3	Allied Branches of geology	Engineering with	13-6-2019	
4	Importance of Geology in Civil	Eligineering with		
	case studies		14-6-2019	
5	Weathering of rooks physical v	veathering	15-6-2019	
6	Weathering of rocks- physical v Weathering of rocks- chemical	weathering	17-6-2019	
7		weathering	18-6-2019	
8	Geological agents		19-6-2019	
9	River process-erosion		20-6-2019	
10	River process-Transportation weathering process of Rock and	their development	21-6-2019	
11		i men development	22-6-2019	
12	River valley development			
13 UNIT –II	Tutorial			
CO2 The s	Mineralogy And Petrol udent will be able to understand	the basic concepts M	easure the rock	
strengths o practice the	udent will be able to understand various rocks .Classify and me hazard zonation ring Geology, N. Chenn Kesayu	the basic concepts M asure the earthquake lu, Laxmi Publication	prone areas to as, rsity press	Lecture
strengths o practice the	udent will be able to understand various rocks .Classify and me hazard zonation	the basic concepts M asure the earthquake lu, Laxmi Publication	prone areas to see a see	Lecture interspersed
strengths of practice the T1 Engine T2. Engine	various rocks .Classify and me hazard zonation ring Geology, N. Chenn Kesavu ering Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock	the basic concepts Masure the earthquake lu, Laxmi Publication adhay, Oxford Unive	prone areas to ns, rsity press 24-6-2019 25-6-2019	interspersed
strengths o practice the T1 Engine T2. Engine	various rocks .Classify and me hazard zonation ring Geology, N. Chenn Kesavu ering Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of r	the basic concepts Masure the earthquake lu, Laxmi Publication adhay, Oxford Unive	prone areas to	interspersed
strengths of practice the T1 Engine T2. Engine 14	various rocks .Classify and me hazard zonation ring Geology, N. Chenn Kesavu ering Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of the study of physical propertirocks for megascopic study for	the basic concepts M asure the earthquake lu, Laxmi Publication adhay, Oxford University of the mineral and rock, es of minerals and	prone areas to ns, rsity press 24-6-2019 25-6-2019	interspersed
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strengths o practice the T1 Engine T2. Engine 14 15 16 17 18 19 20 21 22 23 24	ring Geology, N. Chenn Kesavu ring Geology, N. Chenn Kesavu ring Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of r The study of physical propertirocks for megascopic study for minerals and rocks, Common rock forming minera Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos,	the basic concepts Masure the earthquake lu, Laxmi Publication adhay, Oxford University mineral and rock, es of minerals and the following	prone areas to state of the prone areas to state of the press state of the pressure of the pres	interspersed
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strengths o practice the T1 Engine 14 15 16 17 18 19 20 21 22 23 24 25 26	ring Geology, N. Chenn Kesavu ring Geology, N. Chenn Kesavu ring Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of r The study of physical propertirocks for megascopic study for minerals and rocks, Common rock forming mineral Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite,	the basic concepts Masure the earthquake lu, Laxmi Publication adhay, Oxford Unive mineral and rock, es of minerals and the following	prone areas to state of the prone areas to state of the press state of	interspersed
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strengths o practice the T1 Engine 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	ring Geology, N. Chenn Kesavu ring Geology, N. Chenn Kesavu ring Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of r The study of physical properti rocks for megascopic study for minerals and rocks, Common rock forming minera Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite, Garnet,	the basic concepts M asure the earthquake lu, Laxmi Publication adhay, Oxford University of the content of the following ls are Feldspar	prone areas to s., rsity press 24-6-2019 25-6-2019 27-6-2019 27-6-2019 29-6-2019 2-7-2019 3-7-2019 3-7-2019 4-7-2019 4-7-2019 4-7-2019 5-7-2019 5-7-2019 5-7-2019	
strengths of practice the T1 Engine T2. Engine 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	ring Geology, N. Chenn Kesavu ring Geology, N. Chenn Kesavu ring Geology, Subinoy Gangop Definitions of mineral Structures of silicates and rock Different methods of study of r The study of physical propertirocks for megascopic study for minerals and rocks, Common rock forming minerat Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite, Garnet, Calcite,	the basic concepts M asure the earthquake lu, Laxmi Publication adhay, Oxford University of the content of the following ls are Feldspar	prone areas to state of the prone areas to state of the press state of	interspersed

		1 4-1-2014
33	Pyrolusite, Graphite,	9-7-2019
34	Chromite, Magnetite And Bauxite. Classification:	9-7-2019
35	structures Pyrolusite, Graphite, Chromite,	9-7-2019
36	Magnetite And Bauxite.	10-7-2019
37	Classification, structures textures and forms of	10-7-2019
	Igneous rocks	11-7-2019
38	Metamorphic rocks, and their megascopic study of granite varieties, (pink, gray, green).	11-7-2017
39		
40	Pegmatite, Dolerite, Basalt etc.,	12-7-2019
41	Shale, Sand Stone, Lime Stone,	15-7-2019
42	Laterite, Quartzite, Gneiss,	16-7-2019
43	Schist, Marble, Khondalite	19-7-2019
44	and Slate and their importance in Civil Engineering	20-7-2019

UNIT -III Structural Geology:

CO3 The student will be able to understand the basic Classify, monitor and measure the Landslides and subsidence • Prepares, analyses and interpret the Engineering Geologic maps

T1 Engineering Geology, N. Chenn Kesavulu, Laxmi Publications,

T2. Engine	ering Geology, Subinoy Gangopadhay, Oxford University	sity press	
46	Strike, Dip and Outcrop study of common geological	22-7-2019	And the second s
	structures	22 5 2010	
47	associating with the rocks such as Folds	23-7-2019	
48	Faults	24-7-2019	
49	Joints	25-7-2019	
50	Unconformities- parts	25-7-2019	
51	types	26-7-2019	
52	mechanism	26-7-2019	Lecture
53	their importance in Civil Engineering-Indian stratigraphy	29-7-2019	interspersed with discussions
54	Aims of statigrtaphy	29-7-2019	
55	Principles	30-7-2019	
56	Geological time scour	31-7-2019	
57	Geological division in India	1-8-2019	
58	Major stratigraphic units in India	2-8-2019	
59	Tutorial	3-8-2019	

UNIT IV Ground Water

CO4 The student will be able to understand the basic Analyses the ground conditions through geophysical surveys

T1 Engineering Geology, N. Chenn Kesavulu, Laxmi Publications, T2. Engineering Geology, Subinov Gangonadhay, Oxford University

60	Water table	13-8-2019	
61	Cone of depression	14-8-2019	
62	Geological controls of Ground Water Movement	16-8-2019	Lecture
63	Ground Water Exploration Techniques	17-8-2019	interspersed with
64	Earthquakes And Land Slides: Terminology	19-8-2019	discussions
65	Classification	20-8-2019	
66	causes and effects	21-8-2019	
67	Shield areas and Seismic bells,	22-8-2019	
68	Richter scale intensity,.	24-8-2019	
69	Precautions of building constructions in seismic	26-8-2019	

70	Classification of Landslides,	27-8-2019	
	Causes and Effects,	28-8-2019	
	measures to be taken prevent their occurrence at Landslides	30-8-2019	
73	Case studies	31-8-2019	Lecture
74	Tutorial	3-8-2019	interspersed with
CO5 The studenground to check	cophysics at will be able to understand the Test the geological the suitability of civil engineering project construction Geology, N. Chenn Kesavulu, Laxmi Publications, Geology, Subinoy Gangopadhay, Oxford Universi		discussions
	Importance of Geophysical methods,	4-9-2019	
75 76	Classification	6-9-2019	
77	Principles of Geophysical study by Gravity method	7-9-2019	
78	Magnetic method,	9-9-2019	
79	Electrical methods	9-9-2019	
80	Seismic methods,	11-9-2019	
81	Radiometric method and Electrical resistivity,	12-9-2019	
82	Seismic refraction methods	13-9-2019	
83	Engineering properties of rocks	17-9-2019	
84	Tutorial	18-9-2019	
CO6 The students mega/mini civil like Dams, Tunn T1 Engineering T2. Engineering	dent will be able to understand Investigate the prendiction of the engineering projects. Site selection for mega engine mels, disposal sites etc Geology, N. Chenn Kesavulu, Laxmi Publications, geology, Subinoy Gangopadhay, Oxford University	ering projects	
85	Types and purpose of Dams,	&20-9-2019	
86	Geological considerations in the selection of a Dam site	21-9- 2019&23-9- 2019	
		24-9-2019	
87	Life of Reservoirs Purpose of Tunnelling,		
87 88	Life of Reservoirs Purpose of Tunnelling, effects,	25-9-2019	
88	effects,	25-9-2019	

Section : Se	ENGINEERING GEOLOGY CB Date: 10-6-2019	Page No: 01	of 03
	: 00 Prepared By :Dr.T.Satyanaryana	Approved By	
Tools: Black be		111001010	
No. of Periods	TOPIC	Date	Mode of Delivery
UNIT -I	UNIT -I Introduction		
CO1 The stu minerals T1 Engineer	dent will be able to understand the basic concepts of Ide	s,	y the geologica
T2. Enginee	ring Geology, Subinoy Gangopadhay, Oxford Univer	sity press	
1	Introduction	10-6-2019	
2	Definition of geology and various Branches of	11-6-2019	
	Geology	12 6 2010	
3	Allied Branches of geology	12-6-2019	
4	Importance of Geology in Civil Engineering with case studies	13-6-2019	
5	Weathering	14-6-2019	
6	Weathering of rocks- physical weathering	15-6-2019	
7	Weathering of rocks- chemical weathering	17-6-2019	
8	Geological agents	18-6-2019	
9	River process-erosion	19-6-2019	
10	River process-Transportation	20-6-2019	
11	weathering process of Rock and their development	21-6-2019	
12	River valley development	22-6-2019	
CO2 The strengths of	River valley development Tutorial Mineralogy And Petrology udent will be able to understand the basic concepts Moreorious rocks. Classify and measure the earthquake	easure the rock	
UNIT -II CO2 The strengths of practice the T1 Enginee	Mineralogy And Petrology udent will be able to understand the basic concepts Moreover and the search concepts and	easure the rock prone areas to	
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee	Mineralogy And Petrology udent will be able to understand the basic concepts Mo various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive	easure the rock prone areas to	Lecture
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral	easure the rock prone areas to as, rsity press 24-6-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock,	easure the rock prone areas to is, rsity press 24-6-2019 25-6-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following	easure the rock prone areas to as, rsity press 24-6-2019	Lecture interspersed with discussion
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17	Mineralogy And Petrology udent will be able to understand the basic concepts Mo various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks,	easure the rock prone areas to as, rsity press 24-6-2019 25-6-2019 26-6-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar	easure the rock prone areas to 18, 18, 18	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee 14 15 16 17	Mineralogy And Petrology udent will be able to understand the basic concepts Mo various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group	easure the rock prone areas to is, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine,	easure the rock prone areas to is, rsity press 24-6-2019 25-6-2019 27-6-2019 28-6-2019 29-6-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite,	easure the rock prone areas to as, rsity press 24-6-2019 25-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee 14 15 16 17 18 19 20 21 22	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende,	easure the rock prone areas to is, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 2-7-2019	interspersed
UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group,	easure the rock prone areas to 18, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks .Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos,	easure the rock prone areas to 1s, rsity press 24-6-2019 25-6-2019 27-6-2019 28-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee 14 15 16 17 18 19 20 21 22 23 24 25	Mineralogy And Petrology udent will be able to understand the basic concepts Me various rocks. Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc,	easure the rock prone areas to is, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 28-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019 3-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24 25 26	Mineralogy And Petrology udent will be able to understand the basic concepts Merovarious rocks. Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite,	easure the rock prone areas to 18, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019 4-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Mineralogy And Petrology udent will be able to understand the basic concepts Metazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ring Geology, N. Chenn Kesavulu, Laxmi Publication ring Geology, Subinoy Gangopadhay, Oxford Unive Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite,	easure the rock prone areas to 1s, 1s, 1sity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019 4-7-2019 4-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Mineralogy And Petrology udent will be able to understand the basic concepts Movarious rocks. Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite, Garnet,	easure the rock prone areas to Is, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019 4-7-2019 4-7-2019 4-7-2019	interspersed
13 UNIT –II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Mineralogy And Petrology udent will be able to understand the basic concepts Movarious rocks. Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite, Garnet, Calcite,	easure the rock prone areas to 18, rsity press 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 1-7-2019 2-7-2019 3-7-2019 3-7-2019 4-7-2019 4-7-2019 5-7-2019	interspersed
13 UNIT -II CO2 The strengths of practice the T1 Enginee T2. Enginee 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Mineralogy And Petrology udent will be able to understand the basic concepts Movarious rocks. Classify and measure the earthquake hazard zonation ring Geology, N. Chenn Kesavulu, Laxmi Publication ering Geology, Subinoy Gangopadhay, Oxford University Definitions of mineral Structures of silicates and rock, Different methods of study of mineral and rock, The study of physical properties of minerals and rocks for megascopic study for the following minerals and rocks, Common rock forming minerals are Feldspar Quartz Group Olivine, Augite, Hornblende, Mica Group, Asbestos, Talc, Chlorite, Kyanite, Garnet,	easure the rock prone areas to 18, 18, 18, 19, 24-6-2019 25-6-2019 26-6-2019 27-6-2019 29-6-2019 29-6-2019 2-7-2019 3-7-2019 3-7-2019 3-7-2019 4-7-2019 4-7-2019 5-7-2019 5-7-2019	interspersed

Fyloridate, Graphite,	1 / 1 2021
	9-7-2019
	9-7-2019
	10-7-2019
Classification, structures textures and forms of	10-7-2019
Igneous rocks	
Metamorphic rocks, and their megascopic study of	11-7-2019
granite varieties, (pink, gray, green).	
Pegmatite, Dolerite, Basalt etc.,	12-7-2019
	15-7-2019
	16-7-2019
	19-7-2019
and Slate and their importance in Civil Engineering	20-7-2019
	Chromite, Magnetite And Bauxite. Classification, structures Pyrolusite, Graphite, Chromite, Magnetite And Bauxite. Classification, structures textures and forms of Igneous rocks Metamorphic rocks, and their megascopic study of granite varieties, (pink, gray, green). Pegmatite, Dolerite, Basalt etc., Shale, Sand Stone, Lime Stone, Laterite, Quartzite, Gneiss, Schist, Marble, Khondalite

UNIT -III Structural Geology:

CO3 The student will be able to understand the basic Classify, monitor and measure the Landslides and subsidence • Prepares, analyses and interpret the Engineering Geologic maps

T1 Engineering Geology, N. Chenn Kesavulu, Laxmi Publications,

2. Engine	ering Geology, Subinoy Gangopadhay, Oxford Univer-	sity press	
46	Strike, Dip and Outcrop study of common geological structures	22-7-2019	
47	associating with the rocks such as Folds	23-7-2019	
48	Faults	24-7-2019	
49	Joints	25-7-2019	
50	Unconformities- parts	25-7-2019	
51	types	26-7-2019	
- 52	mechanism	26-7-2019	Lecture
53	their importance in Civil Engineering-Indian stratigraphy	29-7-2019	interspersed with discussions
54	Aims of statigrtaphy	29-7-2019	
55	Principles	30-7-2019	
56	Geological time scour	31-7-2019	
57	Geological division in India	1-8-2019	
58	Major stratigraphic units in India	2-8-2019	
59	Tutorial	3-8-2019	

UNIT IV Ground Water

CO4 The student will be able to understand the basic Analyses the ground conditions through geophysical surveys

T1 Engineering Geology, N. Chenn Kesavulu, Laxmi Publications,

60	Water table	13-8-2019	
61	Cone of depression	14-8-2019	
62	Geological controls of Ground Water Movement	16-8-2019	Lecture
63	Ground Water Exploration Techniques	17-8-2019	interspersed with
64	Earthquakes And Land Slides: Terminology	19-8-2019	discussions
65	Classification	20-8-2019	
66	causes and effects	21-8-2019	
67	Shield areas and Seismic bells,	22-8-2019	
68	Richter scale intensity,.	24-8-2019	
69	Precautions of building constructions in seismic areas	26-8-2019	

/U	Classification of Lanushucs,		
71	Causes and Effects,	28-8-2019	
72	measures to be taken prevent their occurrence at Landslides	30-8-2019	
73	Case studies	31-8-2019	Lecture
74	Tutorial	3-8-2019	interspersed with
			discussions
UNIT-V	Geophysics dent will be able to understand the Test the geological	material and	aiscussions
cos The stu	ck the suitability of civil engineering project construction		
F1 Engineer	ing Ceology, N. Chenn Kesavulu, Laxmi Publications,		
T2. Engineer	ing Geology, Subinoy Gangopadhay, Oxford University	ty press	
75	Importance of Geophysical methods,	4-9-2017	
76	Classification	6-9-2019	
77	Principles of Geophysical study by Gravity method	7-9-2019	
78	Magnetic method,	9-9-2019	
70	Electrical methods	9-9-2019	
79	Seismic methods,	11-9-2019	
80	Radiometric method and Electrical resistivity,	12-9-2019	
81	Seismic refraction methods	13-9-2019	
82		17-9-2019	
83	Engineering properties of rocks	18-9-2019	
84	Tutorial		
UNIT -VI	: Geology of Dams, Reservoirs And Tunnels	S	
CO6 The	student will be able to understand Investigate the pr	oject site 101	
mega/mini c	ivil engineering projects. Site selection for mega engine	cring projects	
like Dams, 1	unnels, disposal sites etc ring Geology, N. Chenn Kesavulu, Laxmi Publications,		
Ti Engineer	ring Geology, N. Chenn Resavaid, Daxim Tubletening Geology, Subinoy Gangopadhay, Oxford Univers	ity press	
85	Types and purpose of Dams,	19-9-2019	
63		&20-9-2019 21-9-	
86	Geological considerations in the selection of a Dam	2019&23-9-	
	site	2019	
87	Life of Reservoirs Purpose of Tunnelling,	24-9-2019	
88	effects,	25-9-2019	
89	Lining of Tunnels.	26-9-2019	
90	Influence of Geology for successful Tunnelling	27-9-2019	
90	influence of Goods J. vi outstand	28-0-2019	

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Tutorial

Signature of the HOD 18 11/19

28-9-2019

TENTATIVE LESSON PLAN: R1631013

Section :	le: STRUCTURAL ANALYSIS-II		
	Sec A Date: 10-6-2019	Page No:	01 of 02
Revision N			By: HOD
	board, PPTs, Model		•
No. of Periods	TOPIC	Tentative Date	Implemented Date
UNIT I Th	ree Hinged Arches & Two Hinged Arches		
CO1:Differ	entiate Determinate and Indeterminate Structures		
TB1:: Struc	ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New De	lhi.	
1 B2:: 1 nec	ory of structures, Ramamuratam, Dhanpatrai Publica	tions	
2	Three Hinged Arches: Elastic theory of arches	10-6-2019	
3	- Eddy's theorem	11-6-2019	
4	Determination of horizontal thrust,	12-6-2019	
5	Determination of bending moment,	17-6-2019	
6	Determination of Normal thrust and radial shear.	18-6-2019	
7	Effect of temperature	19-6-2019	
7	Two Hinged Arches: Determination of horizontal	20-6-2019	Lecture
8	thrust,		interspersed
9	Determination of horizontal thrust	21-6-2019	with
10	Determination of bending moment,	22-6-2019	discussions
	Determination of Normal thrust and radial shear.	24-6-2019	
11	Rib shortening and temperature stresses,	25-6-2019	
12	Tied arches	26-6-2019	
13	Fixed arches	27-6-2019	
UNIT-II	Lateral Load Analysis Using Approximate Methods		
CO2:Carry	out lateral Load analysis of structures		
TB1:: Struc	tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del	L:	
TB2:: Theo	ry of structures, Ramamuratam, Dhanpatrai Publicat	iii.	
14	Lateral Load Analysis Using Approximate Methods:	01-7-2019	
	Application to building frames.	01-7-2019	
	1 application to building frames		T .
15	(i) Portal method	02.7.2010	Lecture
15 16	(i) Portal method	02-7-2019	interspersed
16	(i) Portal method (ii) Cantilever method.	02-7-2019 07-7-2019	interspersed with
16 UNIT -III	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges		interspersed
16 UNIT –III CO3:Analyz	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges te Cable and Suspension Bridge structures	07-7-2019	interspersed with
16 UNIT -III CO3:Analyz TB1:: Struct	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges the Cable and Suspension Bridge structures tural Analysis, C.S. Reddy, Tata Ma Crow bill No. D. 19	07-7-2019	interspersed with
16 UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges the Cable and Suspension Bridge structures tural Analysis, C.S. Reddy, Tata Ma Crow bill No. D. 19	07-7-2019	interspersed with
16 UNIT -III CO3:Analyz TB1:: Struct	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges te Cable and Suspension Bridge structures tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati	07-7-2019 hi.	interspersed with
16 UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges te Cable and Suspension Bridge structures tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati	07-7-2019	interspersed with
16 UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges the Cable and Suspension Bridge structures tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publication Cable Structures And Suspension Bridges:	07-7-2019 hi.	interspersed with
UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor 17	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges are Cable and Suspension Bridge structures are Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati Cable Structures And Suspension Bridges: Introduction Characteristics of cable Analysis of cables subjected to concentrated loads	hi. ons 13-7-2019	interspersed with discussions
UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges are Cable and Suspension Bridge structures are Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati Cable Structures And Suspension Bridges: Introduction Characteristics of cable Analysis of cables subjected to concentrated loads	hi. ons 13-7-2019 15-7-2019 16-7-2019	interspersed with discussions Lecture
UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor 17	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges are Cable and Suspension Bridge structures are Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati Cable Structures And Suspension Bridges: Introduction Characteristics of cable Analysis of cables subjected to concentrated loads Analysis of cables subjected to uniformly distributed	hi. ons 13-7-2019	interspersed with discussions Lecture interspersed
UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor 17 18 19 20	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges are Cable and Suspension Bridge structures are Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati Cable Structures And Suspension Bridges: Introduction Characteristics of cable Analysis of cables subjected to concentrated loads Analysis of cables subjected to uniformly distributed loads	hi. ons 13-7-2019 15-7-2019 16-7-2019	Lecture interspersed with
UNIT -III CO3:Analyz TB1:: Struct TB2:: Theor 17 18 19	(i) Portal method (ii) Cantilever method. Cable Structures And Suspension Bridges are Cable and Suspension Bridge structures are Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delly of structures, Ramamuratam, Dhanpatrai Publicati Cable Structures And Suspension Bridges: Introduction Characteristics of cable Analysis of cables subjected to concentrated loads Analysis of cables subjected to uniformly distributed	hi. ons 13-7-2019 15-7-2019 16-7-2019	interspersed with discussions Lecture interspersed

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Signature of the HOD

TENTATIVE LESSON PLAN: R1631013

Course Tit	le: STRUCTURAL ANALYSIS-II	31013	
Section :	Sec B Date: 10-6-2019	Page No	01 0502
Revision N	o: 00 Prepared By: K.KIRAN		
Tools : Black	board, PPTs, Model	Approved	d By : HOD
No. of	TOPIC	Tentative	Implemented
Periods		Date	Date
COLDISS	ree Hinged Arches & Two Hinged Arches		
TP1 S4	entiate Determinate and Indeterminate Structures		
TD1:: Struc	ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Do	elhi.	
1 DZ:: 1 n	eory of structures, Ramamuratam, Dhannatra	i Publication	ons
2	Three Hinged Arches: Elastic theory of arches	10-6-2019	
3	- Eddy's theorem	11-6-2019	
4	Determination of horizontal thrust,	12-6-2019	
5	Determination of bending moment,	17-6-2019	
6	Determination of Normal thrust and radial shear.	18-6-2019	
7	Effect of temperature	10.6.2010	
1	Two Hinged Arches: Determination of horizontal	20-6-2019	Lecture
8	thrust,		interspersed
9	Determination of horizontal thrust	21-6-2019	with
10	Determination of bending moment,	22-6-2019	discussions
11	Determination of Normal thrust and radial shear.	24-6-2019	
12	Rib shortening and temperature stresses,	25-6-2019	
12	Tied arches	26-6-2019	
13	Fixed arches	27-6-2019	
UNIT –II	Lateral Load Analysis Using Approximate Methods		
COZ. Carryo	ut lateral Load analysis of structures		
1 DI:: Struct	tural Analysis, C.S. Reddy Tota Mc Cross Lin N)alhi	
1D2 Theor	y of structures, Kamamuratam. Dhannatrai Publicat	ione	
14	Lateral Load Analysis Using Approximate Methods:	01-7-2019	
	Application to building frames.	01-7-2019	Lastres
15	(i) Portal method	02-7-2019	Lecture interspersed
16	(ii) Cantilever method.	07-7-2019	with
LINITE TYP		07-7-201)	discussions
UNIT -III	Cable Structures And Suspension Bridges		discussions
COS:Analyzo	Cable and Suspension Bridge structures		
TR2 Theor	ural Analysis, C.S. Reddy, Tata Mc-Graw hill, New D	elhi.	
17	Coll. C. Ramamuratam, Dhanpatrai Publicati	ons	
17	Cable Structures And Suspension Bridges:	13-7-2019	
	Introduction		
18			
	Characteristics of cable	15-7-2019	
19	Analysis of cables subjected to concentrated loads	16-7-2019	
20	Analysis of cables subjected to uniformly distributed		Lecture
	loads	20-7-2019	interspersed
The state of the s	Todds		with
			discussions

21	Anchor Cable,	23-7-2019)
22	Temperature Stresses	24-7-2019	
23	Analysis of simple suspension bridge,	25-7-2019	
24	Three hinged suspension bridges.		
25		27-7-2019	
	Two hinged stiffening girder suspension bridges	30-7-2019	
UNIT - I	V Moment Distribution Method		1
CU4:Anal	yze structures using Moment Distribution		
TB2:: Theor	ictural Analysis, C.S. Reddy, Tata Mc-Graw hill, New De	elhi.	
26	y of structures, Ramamuratam, Dhanpatrai Publications Stiffness over factors.		
		13-8-2019	
	Carry over factors. Distribution factors	144-8-2019	
29		16-8-2019	Lecture
	Analysis of continuous beams with sinking of supports		interspersed
30	Analysis of continuous beams without sinking of supports	20-8-2019	discussions
21	Douts 1 Communication of the c		
31	Portal frames – including Sway	22 0 2010	
32 UNIT – V CO5:Analy	Portal frames – including Sway Substitute frame analysis by two cycle Kani's Method ze structures using Kani's Method	22-8-2019 24-8-2019	
32 UNIT – V CO5:Analy B1:: Struc B2:: Theory	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Ctural Analysis, C.S. Reddy, Tota Ma. Company and the company of the company	24-8-2019	
32 VNIT – V CO5:Analy B1:: Struc B2:: Theory 33	Substitute frame analysis by two cycle Kani's Method ze structures using Kani's Method ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams	24-8-2019 hi.	
32 UNIT – V CO5:Analy B1:: Struc B2:: Theory	Substitute frame analysis by two cycle Kani's Method ze structures using Kani's Method ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams	24-8-2019 hi. 27-8-2019	
32 VNIT – V CO5:Analy B1:: Structure B2:: Theory 33 34	Substitute frame analysis by two cycle Kani's Method ze structures using Kani's Method ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports	24-8-2019 hi.	Lecture
32 VNIT - V CO5:Analy EB1:: Structure 33 34	Substitute frame analysis by two cycle Kani's Method ze structures using Kani's Method ctural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports	24-8-2019 hi. 27-8-2019 29-8-2019	interspersed
32 VNIT – V CO5:Analy B1:: Structure B2:: Theory 33 34	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019	interspersed with
32 VNIT - V CO5:Analy 'B1:: Structure of the structure	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway.	24-8-2019 hi. 27-8-2019 29-8-2019	interspersed
32 VNIT - V CO5:Analy B1:: Structure 33 34 35 36 VNI - VI 1 O6:Analy	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with
32 VNIT - V CO5:Analy B1:: Structure 33 34 35 36 VNI - VI 1 O6:Analy B1:: Structure 32	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods Etural Analysis, C.S. Reddy, Teta M. G. Leiberg, Structures and St	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with
32 VNIT - V CO5:Analy B1:: Structure 33 34 35 36 VNI - VI 1 O6:Analy B1:: Structure 32	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods Etural Analysis, C.S. Reddy, Teta M. G. Leiberg, Structures and St	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with
32 VNIT - V CO5:Analy B1:: Struc 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc 32:: Theory 37	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams — including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Dell of structures, Ramamuratam, Dhanpatrai Publications	24-8-2019 thi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with
32 VNIT - V CO5:Analy B1:: Struc B2:: Theory 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc 37 38	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams — including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Dell of structures, Ramamuratam, Dhanpatrai Publications Introduction to Matrix Methods Flexibility methods: Introduction	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with
32 VNIT - V CO5:Analy B1:: Struc 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc 32:: Theory 37	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams — including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Dell of structures, Ramamuratam, Dhanpatrai Publications Introduction to Matrix Methods Flexibility methods: Introduction	24-8-2019 27-8-2019 29-8-2019 3-9-2019 6-9-2019 10-9-2019 11-9-2019	interspersed with discussions
32 VNIT - V CO5:Analy B1:: Struc B2:: Theory 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc B2:: Theory 37 38 39	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams — including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Ze structures using Matrix methods tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Dell of structures, Ramamuratam, Dhanpatrai Publications Introduction to Matrix Methods Flexibility methods: Introduction application to continuous beams (maximum of two	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019	interspersed with discussions Lecture
32 VNIT - V CO5:Analy B1:: Struc B2:: Theory 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc 37 38	Substitute frame analysis by two cycle Kani's Method Ze structures using Kani's Method Etural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Del of structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams – including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Exe structures using Matrix methods tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Dell of structures, Ramamuratam, Dhanpatrai Publications Introduction to Matrix Methods Flexibility methods: Introduction application to continuous beams (maximum of two unknowns) including support settlements	24-8-2019 hi. 27-8-2019 29-8-2019 3-9-2019 6-9-2019 11-9-2019 12-9-2019	interspersed with discussions Lecture interspersed
32 VNIT - V CO5:Analy B1:: Struc B2:: Theory 33 34 35 36 VNI - VI 1 O6:Analy B1:: Struc B2:: Theory 37 38 39	Substitute frame analysis by two cycle Kani's Method Tex structures using Kani's Method Stural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Deleof structures, Ramamuratam, Dhanpatrai Publications Analysis of continuous beams Analysis of continuous beams — including settlement of supports Single bay portal frames with side sway. Single bay portal frames without side sway. Introduction to Matrix Methods Tex structures using Matrix methods Tural Analysis, C.S. Reddy, Tata Mc-Graw hill, New Delleof structures, Ramamuratam, Dhanpatrai Publications Introduction to Matrix Methods Flexibility methods: Introduction application to continuous beams (maximum of two unknowns) including support settlements. Stiffness method: Introduction, application to continuous beams	24-8-2019 27-8-2019 29-8-2019 3-9-2019 6-9-2019 10-9-2019 11-9-2019	interspersed with discussions Lecture

SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108 Signature of the HOD

TENTATIVE LESSON PLAN: R1631014

Course Title: DESIGN STRUCTURES	AND DRAWING OF REINFO	
Section : Sec B	Date: 10-06-2019	Page No: 01 of 03
Revision No : 00	Prepared By: CH.MALLIKA CHOWDARY	Approved By : HOD

Tools:

	TOPIC	DATE	MODE OF DELIVERY
O1: Wo	Introduction: ork on different types of design philosophies inforced Concrete Structures' by S. Unnikr Hill, New Delhi.		
B:: N.K	rishna Raju, ""Reinforced Concrete Design	1", 2014, New ag	e Publisher
1.	UNIT-I:Introduction: Working stress method	10/0/2019	
2.	Design codes and handbooks,	12/6/2019	
3.	Loading standards – Dead, live, wind and earthquake loads	14/6/2019	
4.	Elastic theory	17/6/2019	
5.	Design constants	18/6/2019	
6.	Modular ratio, neutral axis depth and moment of resistance,	21/6/2019	Lectures
7.	Balanced, under-reinforced and over- reinforced sections,	22/6/2019	interspersed
8.	Working stress method of design of singly and doubly reinforced beams.	24/6/2019	with discussions&
9.	Limit State Design: Concepts of limit state design	26/6/2019	Black board
10.	Basic statistical principles	27/6/2019	
11.	Characteristic loads - Characteristic strength	28/6/2019	
12.	Partial load and safety factors	01/7/2019	
13.	Representative stress-strain curves for cold worked deformed bars and mild steel bars.	02/7/2019	
14.	Assumptions in limit state design – stress - block parameters	03/7/2019	
15.	Limiting moment of Resistance.	04/7/2019	
UNIT - CO2: C TB:: TI	II Design for Flexure: arryout analysis and design of flexural members 3:: 'Reinforced Concrete Structures' by S. Un y Hill New Delhi.	nikrishna Pillai &	
	Krishna Raju, ""Reinforced Concrete Desig	5/7/2010	ge i domener
1.	UNIT-II:Design for Flexure: Limit state analysis	5/7/2019	
2.	Design of singly reinforced sections	6/7/2019	Lectures
3.	Effective depth	8/7/2019	Loctaros

4.	Moment of Resistance	9/7/2019	interspersed
5.	Doubly reinforced beam sections	10/7/2019	with
6.	Flanged (T and L) beam sections	11/7/2019	discussions
7.	Minimum depth for a given capacity	12/7/2019	& Black board
8.	Limiting Percentage of Steel	13/7/2019	C Diack Dould
9.	Minimum Tension Reinforcement	15/7/2019	
10.	Maximum Flexural Steel	16/7/2019	
11.	Design of Flanged Sections (T&L)	17/7/2019	
12.	Effective width of flange - Behavior	18/7/2019	
13.	Analysis and Design.	19/7/2019	
	UNIT-III:Design for Shear, Torsion and Bond: Limit state analysis for shear and torsion	19/7/2019	
1.	Design of section for shear and torsion	20/7/2019	
2.	Concept of bond, anchorage and development length	22/7/2019	Lectures interspersed
3.	I.S. code provisions.	23/7/2019	with
4.	Design examples in simply supported beams, detailing.	24/7/2019	discussions
5.	Design examples in continuous beams, detailing.	25/7/2019	& Black board
6.	Limit state design for serviceability: Deflection, and code provision,	26/7/2019	
7.	Cracking and code provision	27/7/2019	
3.	Design of formwork for beams and slabs	29/7/2019 30/7/2019	

UNIT - VI Slabs

CO6: Design different type of Slabs

TB:: TB:: 'Reinforced Concrete Structures' by S. Unnikrishna Pillai & Devdas Menon, Tata

McGraw Hill, New Delhi.

TB:: N	Krishna Raju, ""Reinforced Concrete De	sign", 2014, Ivew a	ge rublisher
1.	UNIT-VI:Slabs: Classification of slabs	31/7/2019	
2.	Design of one - way slabs using IS Coefficients	01/8/2019	-
3.	Design of one - way slabs using IS Coefficients	02/8/2019	
4.	Design of two - way slabs using IS Coefficients	13/8/2019	Lectures interspersed
5.	Design of two - way slabs using IS Coefficients	14/08/2019	with
6.	Design of continuous slabs using IS Coefficients	19/8/2019	discussions & Black board
7.	Design of continuous slabs using IS Coefficients	20/8/2019	
8.	Design of continuous slabs using IS Coefficients	24/8/2019	
9.	Design of waist-slab staircase.	26/8/2019	
10.	Design of waist-slab staircase.	27/8/2019	

UNIT - IV Design of Compression members:

CO4: Design different type of compression members

4.	Moment of Resistance	9/7/2019	interspersed
5.	Doubly reinforced beam sections	10/7/2019	with
6.	Flanged (T and L) beam sections	11/7/2019	discussions
7.	Minimum depth for a given capacity	12/7/2019	& Black board
8.	Limiting Percentage of Steel	13/7/2019	& DIACK DUALU
9.	Minimum Tension Reinforcement	15/7/2019	
10.	Maximum Flexural Steel	16/7/2019	
11.	Design of Flanged Sections (T&L)	17/7/2019	
12.	Effective width of flange - Behavior	18/7/2019	
13.	Analysis and Design.	19/7/2019	
	UNIT-III: Design for Shear, Torsion and Bond: Limit state analysis for shear and torsion	19/7/2019	
1.	Design of section for shear and torsion	20/7/2019	
2.	Concept of bond, anchorage and development length	22/7/2019	Lectures interspersed
3.	I.S. code provisions.	23/7/2019	with
4.	Design examples in simply supported beams, detailing.	24/7/2019	discussions
5.	Design examples in continuous beams, detailing.	25/7/2019	& Black board
6.	Limit state design for serviceability: Deflection, and code provision,	26/7/2019	
7.	Cracking and code provision	27/7/2019	
8.	Design of formwork for beams and slabs	29/7/2019	
1		30/7/2019	

UNIT - VI Slabs

CO6: Design different type of Slabs

TB:: TB:: 'Reinforced Concrete Structures' by S. Unnikrishna Pillai & Devdas Menon, Tata McGraw Hill, New Delhi.

TB:: N.Krishna Rain, ""Reinforced Concrete Design", 2014, New age Publisher

I Doo IN	Alisina Raju, Remoteu Conciete de	sign , Luit, inch a	ge i ublisher
1.	UNIT-VI:Slabs: Classification of slabs	31/7/2019	
2.	Design of one - way slabs using IS Coefficients	01/8/2019	
3.	Design of one - way slabs using IS Coefficients	02/8/2019	
4.	Design of two - way slabs using IS Coefficients	13/8/2019	Lectures interspersed
5.	Design of two - way slabs using IS Coefficients	14/08/2019	with
6.	Design of continuous slabs using IS Coefficients	19/8/2019	discussions & Black board
7.	Design of continuous slabs using IS Coefficients	20/8/2019	
8.	Design of continuous slabs using IS Coefficients	24/8/2019	
9.	Design of waist-slab staircase.	26/8/2019	
10.	Design of waist-slab staircase.	27/8/2019	
TTTTTTT			

UNIT-IV Design of Compression members:

CO4: Design different type of compression members

TB:: TB:: 'Reinforced Concrete Structures' by S. Unnikrishna Pillai & Devdas Menon, Tata McGraw Hill, New Delhi.

	Krishna Raju, ""Reinforced Concrete Design UNIT-IV: Design of Compression members:	28/8/2019	
1.	Effective length of a column		
2.	Design of short and long columns – under axial loads	29/8/2019	
3.	Design of short and long columns – under uniaxial bending	30/8/2019	Lectures
4.	Design of short and long columns – under biaxial bending	31/8/2019	interspersed
5.	Braced and un-braced columns – I S Code provisions.	03/9/2019	with
6.	Braced and un-braced columns – I S Code provisions.	04/9/2019	discussions & Black board
7.	Braced and un-braced columns – I S Code provisions.	05/9/2019	
8.	Braced and un-braced columns – I S Code provisions.	06/9/2019	
9.	Braced and un-braced columns – I S.Code provisions.	07/9/2019	
10.	Braced and un-braced columns – I S Code provisions.	09/9/2019 13/9/2019	

UNIT - V Footings:

CO5: Design different type of footings

TB:: TB:: 'Reinforced Concrete Structures' by S. Unnikrishna Pillai & Devdas Menon, Tata

McGraw Hill, New Delhi.

TB:: N.Krishna Raju, ""Reinforced Concrete Design", 2014, New age Publisher

1	UNIT-VI:	16/9/2019 17/9/2019	
	Footings: Different types of footings		
2	Design of isolated footings	21/9/2019	
3	Design of combined footings	23/9/2019	
4	Design of rectangular footings subjected to axial loads	25/9/2019	Lectures interspersed
5	Design of rectangular footings subjected to uni-axial bending moments	26/9/2019	with
6	Design of rectangular footings subjected to bi- axial bending moments	27/9/2019	discussions & Black board
7	Design of circular footings subjected to axial loads,	28/9/2019	
8	Design of circular footings subjected to bi- axial bending moments	29/9/2019	
9	Design of circular footings subjected to bi- axial bending moments	01/10/2019	

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TENTATIVE LESSON PLAN: R1631014

STRUCTURES	AND DRAWING OF REINFO	
Section : Sec A	Date: 10-06-2019	Page No: 01 of 03
	Prepared By:	
	CH.MALLIKA	1
Revision No : 00	CHOWDARY	Approved By : HOD

Tools:

	TOPIC	DATE	MODE OF DELIVERY
101. Wa	Introduction: rk on different types of design philosophies		Total
TB:: 'Rei	inforced Concrete Structures' by S. Unnikr	ishna Pillai & I	levdas Menon, Tata
McCrow I	Till New Delhi.		
TB:: N.K	rishna Raju, ""Reinforced Concrete Design	1", 2014, New ag	e Publisher
1.	UNIT-I:Introduction:	10/6/2019	
	Working stress method	1015/0010	
2.	Design codes and handbooks,	12/6/2019	
3.	Loading standards - Dead, live, wind and earthquake loads	14/6/2019	
4.	Elastic theory	17/6/2019	
5.	Design constants	18/6/2019	
6.	Modular ratio, neutral axis depth and moment of resistance,	21/6/2019	Lectures
7.	Balanced, under-reinforced and over- reinforced sections,	22/6/2019	interspersed
8.	Working stress method of design of singly and doubly reinforced beams.	24/6/2019	with discussions&
9.	Limit State Design: Concepts of limit state design	26/6/2019	Black board
10.	Basic statistical principles	27/6/2019	
11.	Characteristic loads - Characteristic strength	28/6/2019	
12.	Partial load and safety factors	01/7/2019	
13.	Representative stress-strain curves for cold worked deformed bars and mild steel bars.	02/7/2019	
14.	Assumptions in limit state design – stress - block parameters	03/7/2019	
15.	Limiting moment of Resistance.	04/7/2019	
	II Design for Flexure:		
	rryout analysis and design of flexural members	and detailing	
TR. TR	:: 'Reinforced Concrete Structures' by S. Uni	ikrishna Pillai &	Devdas Menon, Tata
	Hill, New Delhi.		,
	Krishna Raju, ""Reinforced Concrete Desig	n", 2014. New a	ge Publisher
1.	UNIT-II:Design for Flexure:	5/7/2019	1
1.	Limit state analysis	0.1,2019	
2.	Design of singly reinforced sections	6/7/2019	Lectures

4.	Moment of Resistance	9/7/2019	interspersed
5.	Doubly reinforced beam sections	10/7/2019	with
6.	Flanged (T and L) beam sections	11/7/2019	
7.	Minimum depth for a given capacity	12/7/2019	discussions
8.	Limiting Percentage of Steel	13/7/2019	& Black board
9.	Minimum Tension Reinforcement	15/7/2019	
10.	Maximum Flexural Steel	16/7/2019	
11.	Design of Flanged Sections (T&L)	17/7/2019	
12.	Effective width of flange - Behavior	18/7/2019	
13.	Analysis and Design.	19/7/2019	
	UNIT-III:Design for Shear, Torsion and Bond: Limit state analysis for shear and torsion	19/7/2019	
1.	Design of section for shear and torsion	20/7/2019	
2.	Concept of bond, anchorage and development length	22/7/2019	Lectures
3.	I.S. code provisions.	23/7/2019	interspersed
4.	Design examples in simply supported beams, detailing.	24/7/2019	with discussions
5.	Design examples in continuous beams, detailing.	25/7/2019	& Black board
6.	Limit state design for serviceability: Deflection, and code provision,	26/7/2019	
7.	Cracking and code provision	27/7/2019	
8.	Design of formwork for beams and slabs	29/7/2019	
TID TYPE		30/7/2019	

UNIT - VI Slabs

CO6: Design different type of Slabs

TB:: TB:: 'Reinforced Concrete Structures' by S. Unnikrishna Pillai & Devdas Menon, Tata McGraw Hill, New Delhi.

TB:: N.Krishna Raju, ""Reinforced Concrete Design", 2014, New age Publisher

	Ribuna Raju, Remitorceu Concrete De	sign , zura, ivew a	ge rudusner
1.	UNIT-VI:Slabs: Classification of slabs	31/7/2019	
2.	Design of one - way slabs using IS Coefficients	01/8/2019	
3.	Design of one - way slabs using IS Coefficients	02/8/2019	
4.	Design of two - way slabs using IS Coefficients	13/8/2019	Lectures
5.	Design of two - way slabs using IS Coefficients	14/08/2019	interspersed with
6.	Design of continuous slabs using IS Coefficients	19/8/2019	discussions & Black board
7.	Design of continuous slabs using IS Coefficients	20/8/2019	C DIACK DUATU
8.	Design of continuous slabs using IS Coefficients	24/8/2019	
9.	Design of waist-slab staircase.	26/8/2019	
10.	Design of waist-slab staircase.	27/8/2019	

UNIT - IV Design of Compression members:

CO4: Design different type of compression members

TENTATIVE LESSON PLAN: RX1631015

Course Title: TRANSPORTATION ENCINEEDING. II

Section : Sec	OCCUPATION : DCC D	Page No:	01 of 03
Revision No		Sh Approved	By: HOD
10015 : 15	ack board, PPTs, Model		
No. of Perio	ds TOPIC		Mode of
	COMPONENTS OF RAILWAY ENGIN	Date	Delivery
COI - To kn	ow various components and their functions Engineering" by Satish Chandra & M.M.	in a mailway to al-	
2	Introduction to Railways	17/06/2019	
3	Components of Permanent way	17/06/2019	
4	Track gauge, Cross-section of track	17/06/2019	
5	Functions of Rails	18/06/2019	Lectures
6	Functions of Sleepers	18/06/2019	
7	Functions of Ballast	18/06/2019	
8	Functions of Fastenings	19/06/2019	
9	Creep of Rails, Theories of Creep	19/06/2019	Discussions
10	Adzing of sleepers, Sleeper density	19/06/2019	
11	Rail joints	20/06/2019	
12	Revision	20/06/2019	
	Revision EOMETRIC DESIGN OF RAILWAY	22/06/2019	
ΓB: "Railway	quire Design Principles of Geometrics in Engineering? by Satish Chandra & M.M. Alignment of Track	Aggarwal	1
14	Engineering Surveys	25/06/2019	
15	Gradients	25/06/2019	
16	Grade Compensation	25/06/2019	
17	Cant and Negative Super Elevation	26/06/2019	
18	Cant Deficiency	01/07/2019	
19	Degree of curve	02/07/2019	Lasters
20	Safe speed on curves	02/07/2019	Lectures
21-	Transition Curves	02/07/2019	interspersed
22	Compound curves	03/07/2019	with
23	Reverse curves	04/07/2019	Discussions
24	Extra-clearance on curves	04/07/2019	gam
25	Widening of Gauge	08/07/2019	
26	Vertical curves	08/07/2019	
27	Cheek rail on curves	09/07/2019	
28	Problems – Unit II	09/07/2019	
29	Problems – Unit II	09/07/2019	
30	Problems – Unit II	11/07/2019 11/07/2019	
31	Revision	11/07/2019	
32	Revision		
NIT-III : T	URNOUTS AND CONTROLLERS	11/07/2019	
O3 – To know	v Various Techniques for movement of	Fraine	
B: "Railway I	Ingineering" by Satish Chandra & M.M Ag	garwal	
33	Track layouts, Switches	12/07/2019	•
34	Design of Tongue Rails	15/07/2019	
35	Crossings	16/07/2019	
36	Turn-Outs	17/07/2019	Lectures
37	Diamond Crossing	18/07/2019	
38	Scissor Crossing	19/07/2019	interspersed with
		1 1/1/1/2017 1	

40	rixed Signals	22/0//2019	Discussions
41	Stop Signals	23/07/2019	
42	Mechanical Signaling	26/07/2019	
43	Electrical Signaling	27/07/2019	
44	Modern Signaling	02/08/2019	
CO4 - To Ac TB: "Airport	AIRPORT PLANNING AND DESIGN quire Design Principles of Airport Geometrics & Paver Engineering" by Khanna & Arora	nents	
45	Airport Planning	13/08/2019	
46	Master Plan	13/08/2019	
47	Airport Site Selection	14/08/2019	
48	Aircraft Characteristics	17/08/2019	
49	Zoning Laws	19/08/2019	Lectures
50	Airport Classification	20/08/2019	interspersed
51	Runway Orientation	20/08/2019	with
52	Wind-Rose Diagram	21/08/2019	
53	Runway length	22/08/2019	Discussions
54-	Taxiway Design	23/08/2019	
55	Terminal Area & Airport Layout	23/08/2019	
56	Visual Aids & Air Traffic Control	24/08/2019	
57	Problems – Unit IV	24/08/2019	
58	Revision	26/08/2019	
59	Revision	26/08/2019	
TB: "Airpor	quire Design Principles of Airport Geometrics & Pavent Engineering" by Khanna & Arora		
60	Various Design factors	27/08/2019	
61	Design Methods for Rigid Pavement	27/08/2019	Lectures
62	LCN system of Pavement Design	31/08/2019	interspersed
63	Airfield Pavement Failures	3/09/2019	with
64	Maintenance & rehabilitation	3/09/2019	Discussions
65	Airport Drainage	6/09/2019	Discussions
OF DOCKS &	LANNING, LAYOUT, CONSTRUCTION AND MAIN HARBOURS w the Planning, Construction and maintenance of doc		
Harbours B: "Docks&	HarbourEngineering" by S.P. Bindra		26.05**
Harbours B: "Docks& 66	Classification of Ports and Harbours	7/09/2019	, seas
Harbours B: "Docks&		7/09/2019 9/09/2019	78.05
Harbours B: "Docks& 66	Classification of Ports and Harbours		Lectures
Harbours B: "Docks& 66 67	Classification of Ports and Harbours Dry & Wet Docks, Transition Sheds & Ware houses	9/09/2019	
Harbours B: "Docks& 66 67 68	Classification of Ports and Harbours Dry & Wet Docks, Transition Sheds & Ware houses Quay walls, Wharves	9/09/2019 12/09/2019	interspersed
Harbours B: "Docks& 66 67 68 69	Classification of Ports and Harbours Dry & Wet Docks, Transition Sheds & Ware houses Quay walls, Wharves Jetties – Tides - Break Waters	9/09/2019 12/09/2019 13/09/2019	interspersed with
Harbours B: "Docks& 66 67 68 69 70	Classification of Ports and Harbours Dry & Wet Docks, Transition Sheds & Ware houses Quay walls, Wharves Jetties – Tides - Break Waters Dredging Maintenance of Ports	9/09/2019 12/09/2019 13/09/2019 17/09/2019	interspersed
Harbours B: "Docks& 66 67 68 69 70 71	Classification of Ports and Harbours Dry & Wet Docks, Transition Sheds & Ware houses Quay walls, Wharves Jetties – Tides - Break Waters Dredging	9/09/2019 12/09/2019 13/09/2019 17/09/2019 18/09/2019	interspersed with

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	boundaries		1
67	Computation of areas along regular boundaries	18-9-2019	Lecture interspersed
68	Embankments and cutting for a level section	19-9-2019	with discussions
69	Two level section with and without transverse slopes	20-9-2019	
70	Determination of the capacity of reservoir	24-9-2019	
71	Volume of barrow pits	25-9-2019	
72	Problems volume of barrow pits	26-9-2019	
73	Problems volume of barrow pits	27-9-2019	

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TENTATIVE LESSON PLAN

Section : Sec A	Date: 10/06/2019	Page No: 01 of 02
Revision No : 00	Prepared By :N.KRANTHI REKHA	Approved By : HOD

No. of Periods	TOPIC	Date	Mode of Delivery
UNIT -I	Introduction to sanitation		
	R SUPPLY & SANITATION ENGINEERING BY J.S.BI	RDIE & B.S.BIRD	IE .
	ow about collection and conveyance of waste water.	12 (2010	T
1	System of sanitation	12-6-2019	
2	Relative merits and demerits	13-6-2019	Lecture interspersed with
3	Collection of ww	14-6-2019	
4	Conveyance of ww	15-6-2019	
5	Sewerage	17-6-2019	discussions
6	Classification of sewerage systems	18-6-2019	
7	Estimation of sewage flow	19-6-2019	
8	Storm water drainage-fluctuations	20-6-2019	
9	Types of sewers	21-6-2019	
10	Sewer appurtenances	22-6-2019	
11	Cleaning and ventilation of sewers	24-6-2019	
12	Pumping of ww and ps	4-7-2019	
TB: WATE	R SUPPLY & SANITATION ENGINEERING BY J.S.BI CO 2: To know about pumping system and house		IE
	1 0 1		
13	Location, components of ps	5-7-2019	
14	Types of pumps and their suitability	6-7-2019	
15	House plumbing	8-7-2019	
16	System of plumbing	9-7-2019	Lecture
19	Sanitary fittings	10-7-2019	intersperse
18	One pipe and two pipe system	11-7-2019	with
19	Design of building drainage	12-7-2019	discussion
B.S.BIRDIE	R SUPPLY & SANITATION ENGINEERING BY J.S.BI now about preliminary and primary treatment. Sampling and analysis of ww	20-7-2019	
21	Physical Physical	22-7-2019	
22	Chemical	23-7-2019	
23	Biological	24-7-2019	
24	Measurement of COD &BOD	25-7-2019	Lecture
25	BOD equations	26-7-2019	intersperse
26	Treatment of sewage	27-7-2019	with
27	Primary treatment	29-7-2019	discussion
28	Screens and grit chambers	30-7-2019	
29	Grease traps and floatation	31-7-2019	
30	Sedimentation	31-7-2019	
31	Designs of preliminary and primary treatment units	1-8-2019	
J1	Designs of promining and primary treatment diffe	1-0-2017	

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE CO 4: To know about biological treatment of waste water.

		3-8-2019	Lecture
32	Secondary treatment	3=8=2019	interspersed
33	Aerobic TU	5-8-2019	interspersed
34	Anaerobic TU	6-8-2019	with
35	Suspended growth process	8-8-2019	discussions
36	ASPT	9-8-2019	
37	Principles, designs, operational problems	14-8-2019	
38	Oxidation ponds	28-8-2019	
39	Aerated lagoons	30-8-2019	
40	Attached growth process	31-8-2019	
41	Trickling filters	4-9-2019	
42	Mechanism of impurities removal	5-9-2019	
43	Classification, design, operation and maintenance	5-9-2019	
44	RBCs	6-9-2019	
	Fluidized bed reactors		

Unit-V

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE

CO 5: To know about advanced treatments of sewage.

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45	Nitrification	7-9-2019	Lecture
46	De-nitrification	9-9-2019	interspersed
47	Removal of phosphates	11-9-2019	with
48	UASB	12-9-2019	discussions
49	Membrane reactor	13-9-2019	
50	IFFR	17-9-2019	
51	Septic tanks	18-9-2019	
52	Imhoff tanks	19-9-2019	
53	Designs	20-9-2019	
54	Disposal of septic tank effluents	20-9-2019	

UNIT-VI

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE

55	Sludge management	23-9-2019	
56	Characteristics	24-9-2019	
57	Handling of sludge	25-9-2019	
58	Treatment of sludge	26-9-2019	Lecture
59	Sludge thickening	27-9-2019	interspersed
60	Aerobic digestion of sludge	28-9-2019	with
61	Disposal of sewage	28-9-2019	discussions
62	Methods of disposal	28-9-2019	
63	Disposal into water bodies	29-9-2019	
64	Oxygen sag curve	29-9-2019	
65	Disposal on land	1-10-2019	
66	Sewage sickness	1-10-2019	
		1-10-2019	

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TENTATIVE LESSON PLAN

Course Title: ENV	/IRONMENTAL ENGINEERING II (R164101	11)
Section : Sec B	Date: 10/06/2019	Page No: 01 of 02
Revision No : 00	Prepared By :N.KRANTHI REKHA	Approved By: HOD

No. of Periods	TOPIC	Date	Mode of Delivery
	Introduction to sanitation R SUPPLY & SANITATION ENGINEERING BY J.S.BII ow about collection and conveyance of waste water.	RDIE & B.S.BIRD	ΙE
1	System of sanitation	12-6-2019	
2	Relative merits and demerits	13-6-2019	
3	Collection of ww	14-6-2019	Lecture
4	Conveyance of ww	15-6-2019	interspersed
5	Sewerage	17-6-2019	with
6	Classification of sewerage systems	18-6-2019	discussions
7	Estimation of sewage flow	19-6-2019	
8	Storm water drainage-fluctuations	20-6-2019	
9	Types of sewers	21-6-2019	
10	Sewer appurtenances	22-6-2019	
11	Cleaning and ventilation of sewers	24-6-2019	
12	Pumping of ww and ps Location, components of ps	4-7-2019 5-7-2019	
TB: WATER	R SUPPLY & SANITATION ENGINEERING BY J.S.BII CO 2: To know about pumping system and house		IE
	Types of pumps and their suitability	6-7-2019	
14		8-7-2019	
	House plumbing		
16 19	System of plumbing Sanitary fittings	9-7-2019 10-7-2019	Lecture
			intersperse
18	One pipe and two pipe system	11-7-2019	with
19	Design of building drainage	12-7-2019	discussion
B.S.BIRDIE CO 3: To kn	ow about preliminary and primary treatment.		
	Sampling and analysis of ww	20-7-2019	
21	Physical	22-7-2019	
22	Chemical	23-7-2019	
23	Biological	24-7-2019	
24	Measurement of COD &BOD	25-7-2019	Lecture
25	BOD equations	26-7-2019	intersperse
26	Treatment of sewage	27-7-2019	with
27	Primary treatment	29-7-2019	discussion
28	Screens and grit chambers	30-7-2019	
29	Grease traps and floatation	31-7-2019	
2)			
30	Sedimentation	31-7-2019	

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE CO 4: To know about biological treatment of waste water.

32	Secondary treatment	3-8-2019	Lecture
33	Aerobic TU	5-8-2019	interspersed
34	Anaerobic TU	6-8-2019	with
35	Suspended growth process	8-8-2019	discussions
36	ASPT	9-8-2019	
37	Principles, designs, operational problems	14-8-2019	
38	Oxidation ponds	28-8-2019	
39	Aerated lagoons	30-8-2019	
40	Attached growth process	31-8-2019	
41	Trickling filters	4-9-2019	1.
42	Mechanism of impurities removal	5-9-2019	
43	Classification, design, operation and maintenance	5-9-2019	
44	RBCs	6-9-2019	
	Fluidized bed reactors		

Unit -V

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE

CO 5: To know about advanced treatments of sewage.

45	Nitrification	7-9-2019	Lecture
46	De-nitrification De-nitrification	9-9-2019	interspersed with
47	Removal of phosphates	11-9-2019	
48	UASB	12-9-2019	discussions
49	Membrane reactor	13-9-2019	
50	IFFR	17-9-2019	
51	Septic tanks	18-9-2019	
52	Imhoff tanks	19-9-2019	
53	Designs	20-9-2019	
54	Disposal of septic tank effluents	20-9-2019	

UNIT - VI

TB: WATER SUPPLY & SANITATION ENGINEERING BY J.S.BIRDIE & B.S.BIRDIE

CO 6: To know about sewage disposal and sludge disposal.

55	Sludge management	23-9-2019	
56	Characteristics	24-9-2019	
57	Handling of sludge	25-9-2019	
58	Treatment of sludge	26-9-2019	Lecture
59	Sludge thickening	27-9-2019	interspersed
60	Aerobic digestion of sludge	28-9-2019	with
61	Disposal of sewage	28-9-2019	discussions
62	Methods of disposal	28-9-2019	
63	Disposal into water bodies	29-9-2019	
64	Oxygen sag curve	29-9-2019	
65	Disposal on land	1-10-2019	
66	Sewage sickness	1-10-2019	
		1-10-2019	

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TENTATIVE LESSON PLAN: R1641012

Course Title: Wa	ter resources engineering - II (R1641012)	
Section : Sec A	Date: 10/06/19	Page No: 01 of 03
Revision No: 00	Prepared By : E. USHA SREE	Approved By: HOD

Tools: Black board, power point presentations

No. of Periods	TOPIC	Implemented Date	Mode of Delivery
UNIT –I	IRRIGATION		
CO 1: To 6	nable the student to estimate the irrigation water requir	ements	
TB: Water	resources engineering, Dr. K.R. Arora		
1	Necessity and importance	17-06-2019	
2	Crop seasons and types	18-06-2019	
3	Methods of application	19-06-2019	Lecture
4	Soil water plant relationships	20-06-2019	intersperse
5	Soil moisture constants	21-06-2019	d with
6	Consumptive use and estimation of consumptive use	22-06-2019	discussions
7	Crop water requirement	24-06-2019	
8	Duty and delta, factors affecting duty	25-06-2019	
9	Depth and frequency of irrigation	26-06-2019	
10	Irrigation efficiencies	27-06-2019	
11	Water logging and drainage	29-06-2019	
12	Irrigation water standards and crop rotation	01-07-2019	
13	Tutorial	02-07-2019	
UNIT -II	CANALS		
	make the student to design irrigation canals and canal no	etwork	
TR: Irriga	tion and water power engineering, B. C. Punmia		
14	Design of non - erodible canals	03-07-2019	
15	Methods of economic section and maximum permissible	05-07-2019	
13	velocity		Lecture
16	Economics of canal lining	06-07-2019	intersperse
17	Kennedy's silt theory	08-07-2019	d with
18	Lacey's regime theory	09-07-2019	discussion
19	Balancing depth of cutting	10-07-2019	
20	Tutorial	11-07-2019	
UNIT -III			The Control
	make the student to design irrigation canal structures		
TB: Irriga	tion and water power engineering, B. C. Punmia	12-07-2019	
TB: Irriga	Canal falls: types and location	12-07-2019	
TB: Irriga 21 22	Canal falls: types and location Design principles of sarda type fall	17-07-2019	
TB: Irriga 21 22 23	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall	17-07-2019 18-07-2019	
TB: Irriga 21 22 23 24	tion and water power engineering, B. C. Punmia Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall	17-07-2019 18-07-2019 19-07-2019	
TB: Irriga 21 22 23 24 25	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators	17-07-2019 18-07-2019 19-07-2019 20-07-2019	
TB: Irriga 21 22 23 24 25 26	tion and water power engineering, B. C. Punmia Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019	Lecture
TB: Irriga 21 22 23 24 25	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators	17-07-2019 18-07-2019 19-07-2019 20-07-2019	Lecture
TB: Irriga 21 22 23 24 25 26	tion and water power engineering, B. C. Punmia Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019	Lecture intersperse d with
TB: Irriga 21 22 23 24 25 26 27	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles Cross drainage works: types and selection Design principles of aqueduct Siphon aqueduct and super passage	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019 23-07-2019	intersperse d with
TB: Irriga 21 22 23 24 25 26 27 28	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles Cross drainage works: types and selection Design principles of aqueduct	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019 23-07-2019 24-07-2019	intersperse d with
TB: Irriga 21 22 23 24 25 26 27 28 29	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles Cross drainage works: types and selection Design principles of aqueduct Siphon aqueduct and super passage	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019 23-07-2019 24-07-2019 25-07-2019	intersperse d with
TB: Irriga 21 22 23 24 25 26 27 28 29 30	Canal falls: types and location Design principles of sarda type fall Problems on sarda type fall Design of straight glacis fall Canal regulators: head and cross regulators Design principles Cross drainage works: types and selection Design principles of aqueduct Siphon aqueduct and super passage Canal outlets: types, proportionality, sensitivity and flexibility	17-07-2019 18-07-2019 19-07-2019 20-07-2019 22-07-2019 23-07-2019 24-07-2019 25-07-2019 26-07-2019	intersperse

	DIVERSION HEAD WORKS nake the student to plan and design diversion head worl tion and water power engineering, B. C. Punmia	KS	
32	Weirs and barrages	16-08-2019	
33	Layout of diversion head works and components	19-08-2019	
34	Causes and failures of weirs on permeable foundations	20-08-2019	Lecture
35	Bligh's creep theory	21-08-2019	intersperse
36	Khosla's theory	23-08-2019	d with
37	Design of impervious floors for sub surface flow	26-08-2019	discussions
38	Exit gradient	27-08-2019	
39	Tutorial	28-08-2019	
UNIT -V	RESERVOIR PLANNING, DAMS AND GRAVITY	DAMS	
	nake the student to analyze stability of gravity dams ion and water power engineering, B. C. Punmia		
40	Reservoir planning: introduction	01-09-2019	
41	Investigations, site selections, zones of storage	02-09-2019	
42	Yield and storage capacity of reservoir	02-09-2019	
43	Reservoir sedimentation	03-09-2019	
44	Dams: types of dams, selection	04-09-2019	Lecture
45	Selection of site foe dam	05-09-2019	intersperse d with
46	Gravity dams: forces acting on gravity dams	06-09-2019	discussion
47	Causes of failures of gravity dams	06-09-2019	discussion
48	Problems	09-09-2019	
49	Elementary profile of dam	11-09-2019	
50	Practical profile of dam	11-09-2019	
51	Limiting height of dam	11-09-2019	
52	Stability analysis	12-09-2019	
53	Drainage galleries and grouting	12-09-2019	
54	Tutorial	13-09-2019	
CO 6 : To 1 works TB: Irrigat	EARTH DAMS AND SPILL WAYS nake the students to design earth dams, ogee spillways ion and water power engineering, B. C. Punmia		sipation
55	Earth dams, types and causes of failures	16-09-2019	
56	Criteria for safe design	16-09-2019	
57	Seepage control measures	17-09-2019	
58	Filters and stability analysis	18-09-2019	
59	Stability of d/s slope during steady seepage	19-09-2019	Lecture
60	Stability of u/s slope during sudden drawdown	20-09-2019	interspersed
61	Spillways: types	21-09-2019	with discussions
62	Design principles of ogee spillways	23-09-2019	
63	Problems	24-09-2019	

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Types of spillway crest gates

Stilling basin and appurtenances

Energy dissipation

Tutorial

26-09-2019

27-09-2019

28-09-2019

01-10-2019

TENTATIVE LESSON PLAN: R1641012

Course Title: Wa	ter resources engineering - II (R1641012)	
Section : Sec B	Date: 10/06/19	Page No: 01 of 03
Revision No: 00	Prepared By : E. USHA SREE	Approved By: HOD

Tools: Black board, power point presentations

No. of Periods	TOPIC	Implemented Date	Mode of Delivery
UNIT -I	IRRIGATION		
	enable the student to estimate the irrigation water requir	rements	
TB: Water	resources engineering, Dr. K.R. Arora		
1	Necessity and importance	17-06-2019	
2	Crop seasons and types	18-06-2019	
3	Methods of application	19-06-2019	Lecture
4	Soil water plant relationships	20-06-2019	intersperse
5	Soil moisture constants	21-06-2019	d with
6	Consumptive use and estimation of consumptive use	22-06-2019	discussion
7	Crop water requirement	24-06-2019	
8	Duty and delta, factors affecting duty	25-06-2019	
9	Depth and frequency of irrigation	26-06-2019	
10	Irrigation efficiencies	27-06-2019	
11	Water logging and drainage	29-06-2019	
12	Irrigation water standards and crop rotation	01-07-2019	
13	Tutorial	02-07-2019	
UNIT –II	CANALS		
	make the student to design irrigation canals and canal n	etwork	
	tion and water power engineering, B. C. Punmia		
14	Design of non - erodible canals	03-07-2019	
15	Methods of economic section and maximum permissible	05-07-2019	
	velocity		Lecture
16	Economics of canal lining	06-07-2019	intersperse
17	Kennedy's silt theory	08-07-2019	d with
18	Lacey's regime theory	09-07-2019	discussion
19	Balancing depth of cutting	10-07-2019	
20	Tutorial .	11-07-2019	
UNIT –III			
	make the student to design irrigation canal structures		
	tion and water power engineering, B. C. Punmia		
21	Canal falls: types and location	12-07-2019	
22	Design principles of sarda type fall	17-07-2019	
23	Problems on sarda type fall	18-07-2019	
24	Design of straight glacis fall	19-07-2019	
25	Canal regulators: head and cross regulators	20-07-2019	
26	Design principles	22-07-2019	
27	Cross drainage works: types and selection	23-07-2019	Lecture
28	Design principles of aqueduct	24-07-2019	intersperse d with
29	Siphon aqueduct and super passage	25-07-2019	discussion
	Canal outlets: types, proportionality, sensitivity and flexibility	26-07-2019	
30			-
30	River training objectives	27-07-2019	
U.S. Mark	River training objectives River training approaches	27-07-2019 29-08-2019	

TENTATIVE LESSON PLAN: CIVIL R1641013

Course Title: GEO TECHNICAL ENGINEERING-II (CIVIL)		
Section: Sec A	Date: 10-06-2019	Page No: 01 of 02
Revision No: 00	Prepared By: P.S.V Bharath	Approved By: HOD

Tools: Black board, power point presentations

No. of Periods	TOPIC	Tentative Dates	MODE OF DELIVERY
	UNIT 1		
1	Geotechnical engineering I (recall)	20-06-2019	
2	Geotechnical engineering II introduction	21-06-2019	
3	Stability of slopes introduction	24-06-2019	
4	Infinite slopes	25-06-2019	
5	Infinite slopes	26-06-2019	
6	Finite slopes	27-06-2019	Lecture
7.	Finite slopes	28-06-2019	interspersed with discussions
8	Types of failures	01-07-2019	
9	Factor of safety of infinite slopes	02-07-2019	
10	Stability analysis by swidish arc method	03-07-2019	discussions
11	Method of slices	04-07-2019	
12	Taylor stability number	05-07-2019	
13	Stability of slopes of dams	06-07-2019	
14	Stability of slopes of embankments and different conditions	08-07-2019	
	UNIT 2		
15	Rankines theory of earth pressure	09-07-2019	
16	Rankines theory of earth pressure	11-07-2019	Lecture
17	Coulombs theory of earth pressure	12-07-2019	interspersed
18	Coulombs theory of earth pressure	12-07-2019	with
19	Culmanns graphical method	15-07-2019	discussions
20	Culmanns graphical method	15-07-2019	uiscussions
21	Earth pressures in layered soil	16-07-2019	
	UNIT 3		
22	Types of foundations and factors to be considered in their location	17-07-2019	
23	Bearing capacity	18-07-2019	
24	Criteria for determination of bearing capacity	19-07-2019	
25	Factors influencing bearing capacity	22-07-2019	
26	Analytical methods to determine bearing capacity	23-07-2019	Lecture
27	Terzaghi's theory	24-07-2019	interspersed
28	IS methods	25-07-2019	with
29	Safe bearing pressure based on N value	26-07-2019	discussions
30	Allowable bearing pressure	27-07-2019	
31	Safe bearing capacity and settlement from plate load test	29-07-2019	
32	Types of foundation settlements and their determination	30-07-2019	
33	Allowable settlements of structures	31-07-2019	

Ç= 17	UNIT 4		
34	Types of piles	31-07-2019	
35	Load carrying capacity of piles based on static pile formulae	01-08-2019	
36	Load carrying capacity of piles based on static pile formulae	02-08-2019	
37	Dynamic pile formulae	03-08-2019	Lecture
38	Dynamic pile formulae	19-08-2019	interspersed
39	Pile load tests	20-08-2019	with
40	Pile load tests	22-08-2019	discussions
41	Load carrying capacity of pile group in sands	24-08-2019	
42	Load carrying capacity of pile group in sands	26-08-2019	
43	Load carrying capacity of pile group in clays	27-08-2019	
44	Load carrying capacity of pile group in clays	29-08-2019	
	UNIT-5		
45	Types of well foundation	30-08-2019	
46	Different shapes of well	03-09-2019	
47	Components of well	04-09-2019	
48	Functions of well foundation	05-09-2019	
49	Forces acting on well foundations	06-09-2019	Lecture
50	Forces acting on well foundations	07-09-2019	interspersed
51	Design criteria	09-09-2019	with
52	Design criteria	11-09-2019	discussions
53	Design criteria	13-09-2019	
54	Determination of steining thickness and plug	16-09-2019	
55	Construction and sinking of wells	17-09-2019	
56	Tilt and shift	18-09-2019	
57	Tilt and shift	19-09-2019	
	UNIT-6		
58	Need of soil exploration	20-09-2019	
59	Methods of soil exploration	21-09-2019	
60	Boring and sampling methods	23-09-2019	
61	Boring and sampling methods	23-09-2019	Lecture
62	Field tests	24-09-2019	interspersed
63	Field tests	25-09-2019	with
64	Penetration tests	25-09-2019	discussions
65	Pressure meter	26-09-2019	
66	Planning of programme and preparation of soil investigation report	27-09-2019	
67	Planning of programme and preparation of soil investigation report	27-09-2019	

		to17-9-2019	
(2)	Tutorial	18-9-2019	
	Applications of Hydrology, Water Resources	and	
CO6 The stu	anagement: Ident will be able to understand the application of RS and S By BASUDED BHATTA, ORFORD PUBLISHERS OF THE PROPERTY	5	
T2 Fundam	entals of Remote Sensing, George Joseph, Universitie Flood zoning and mapping	19-9-2019 &20-9-2019	
64	groundwater prospects and potential recharge zones	21-9- 2019&23-9- 2019	
65	watershed management and disaster management with case studies	24-9-2019 to26-9-2019	
66	Tutorial	27-9-2019	
67	Tutorial		

TENTATIVE LESSON PLAN: CE R1641014

Course Title: RE	MOTE SENSING AND GIS APPLICATION	ONS
	Date: 10-6-2019	Page No: 01 of 03
	Prepared By :Syed Jakeer Hussain	Approved By : HOD

TOPIC	Date	Mode of Delivery
stroduction to remote sensing		
	10-6-2019	
	11-6-2019	
	12-6-2019	
	13-6-2019	
	14-6-2019	
	15-6-2019	
Characteristics of remote sensing systems Sensors and	17-6-2019	
irborne remote sensing		
paceborne remote sensing		
	21-6-2019	
	22-6-2019	
	24-6-2019	
	25-6-2019	
	26-6-2019	
•	27-6-2019	
	28-6-2019	
	29-6-2019	
	1-7-2019	
	2-7-2019	
	3-7-2019	Lecture
	4-7-2019	intersperse
	5-7-2019	with
		discussion
Image analysis:	6-7-2019	
		+
* C.		
	20 / 2017	
Geographic Information System		
Geographic Information System: Introduction	22-7-2019	
	23-7-2019	
	24-7-2019	
	25-7-2019	
Data entry and preparation:	26-7-2019	
	29-7-2019	
•	30-7-2019	Lecture
	Introduction to remote sensing Introduction Ideasic concepts of remote sensing, Idectromagnetic radiation Idectromagnetic spectrum, Interaction with atmosphere Interaction with atmosphere Intergy interaction with the earth surfaces Introduction, types of sensors Introduction interdes sensing Image data characteristics Idea in interdes to be pixel Image data formats Interdes to be pixel Image data formats Interdes to be pixel Image analysis: Introduction Image analysis: Image analysis: Image analysis: Image analysis: Image analysis: Image analysis: Image enhancement Image classification Image classification Interdes to be supervised and unsupervised Introduction Interdes to remove the supervised and unsupervised Interdes to remove the sup	TOPIC Date

40	vector data model	31-7-2019	interspersed with discussions
41	Different b/w raster and vector model	1-8-2019	
42	Tutorial	2-8-2019	
43	Tutorial	3-8-2019	8
UNIT IV S	patial data analysis		
44	Spatial data analysis: Introduction	13-8-2019	
45	overlay function-vector overlay operations	14-8-2019	
46	raster overlay operations	16-8-2019	Lecture
47	arithmetic operators	17-8-2019	interspersed
48	comparison and logical operators	19-8-2019	with
49	conditional expressions	20-8-2019	discussions
50	overlay using a decision table	21-8-2019	
51	network analysis-optimal path finding	22-8-2019	
52	network allocation	24-8-2019	
53	network tracing	26-8-2019	
. 54	buffer analysis	27-8-2019	
55	Tutorial	28-8-2019	
UNIT -V	RS and GIS applications General:		
56	Land cover and land use	30-8-2019&	
50		31-8-2019	
57		3-8-2019&4-	Lecture
	Agriculture	9-2019	interspersed
58	Forestry	6-9-2019&7-	with
		9-2019	discussions
59	Geology	&11-92019	100
60	Geomorphology	12-9-2019	
60	Urban applications	13-9-2019	
61	Otoan applications	to17-9-2019	
62	Tutorial	18-9-2019	
UNIT -VI	Applications of Hydrology, Water Resources and Disaster Man	nagement:	
63	Flood zoning and mapping	19-9-2019	
		&20-9-2019	
64	groundwater prospects and potential recharge zones	21-9- 2019&23-9- 2019	
65	watershed management and disaster management with case studies	24-9-2019 to26-9-2019	
"	Tutorial	27-9-2019	1
66			

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TENTATIVE LESSON PLAN: R164101B

	Ground Improvement Techniques(R164101B		
Section: Sec A	Date:10-6-2019	Page no: 01	of 02
RevisionNo:0	Prepared By: V.CHINNI	Approved By : HOD	
Tools: Black I	Board, PPTs, Model		
No. of Period:	TOPIC	Implemental	1
		Implemented Dates	Mode of
UNI	Γ-I DENSIFICATION	Dates	Delivery
1	Introduction on ground improvement methods	10-6-2019	
2	Insitu densification of granular soils:Blasting	11-6-2019	
3	Vibratory probe, vibratory compactors	10 6 0010	
4	Vibro displacement :displacement piles	12-6-2019	
5	Vibroflototion to 1	17-6-2019	
6	Vibroflotation techniques	18-6-2019	
	Dynamic (or) impact compaction at ground & depth	19-6-2019	Lecture intersperse
7	Insitu densification of cohessive soils: preloading ,surcharge	20-6-2019	with
8	Vertical drains: sand drains	21-6-2019	discussion
9	Vertical drains: geo drains		
10	Stone columns	22-6-2019	
`11	Vertical drain design	24-6-2019	
12	Dynamic (or) impact compaction(T)	25-6-2019	
13	Tutorial	26-6-2019	
UNIT -		27-6-2019	
14			
	Introduction on dewatering	2-7-2018	
15	Ground water and seepage control	3-7-2018	
16 17	Open sumps & interceptor ditches	4-7-2018	
18	Well point systems-single stage	5-7-2018	
19	Well point systems-multi stage	6-7-2018	
20	Well points in braced excavation	9-7-2018	
21	Vacuum dewatering system	10-7-2018	Lecture
22	Horizontal wells	11-7-2018	interspersed
23	Elecro osmosis	12-7-2018	with
24	Drains:open & closed drains	13-7-2018	discussions
25	Foundation drains & blanket drains	16-7-2018	
	Criteria for choice of filler material around drains	17-7-2018	
26	Tutorial: Elecro osmosis		
UNIT -I	II SOIL STABILIZATION	18-7-2018	
07			
27	Soil stabilization: Introduction	18-7-2019	
28	Mechanical stabilization	22-7-2019	
	Chemical stabilization	23-7-2019	
30	Lime stabilization-factors	25-7-2019	
	Cement stabilization	26-7-2019	
32	Bitumen stabilization-factors	27-7-2019	Lecture
33	Polymer stabilization	29-7-2019	interspersed

34	Granulated blast furnace slag & flyash	30-7-2019	with
35	Tutorial	01-8-2019	discussions
UNIT			
36	Reinforced earth –principles	02-8-2019	
37	Components of Reinforced earth	03-8-2019	
	Soil nailing- purpose & applications	16-8-2019	
38	Soil nailing- material & machineries	19-8-2019	
40	Soil nailing- design principles	20-8-2019	Lecture
	Design principles of Reinforced earth walls	21-8-2019	interspersed
41	Stability checks	22-8-2019	with
42	Tutorial	24-8-2019	discussions
43			
UNI	Geosynthetics: introduction	26-8-2019	
44	Classification of Geosynthetics	27-8-2019	
45	Geosynthetics: applications & properties	28-8-2019	
46	Geotextiles –types	29-8-2019	Lecture
47	Functions, properties	03-9-2019	interspersed
48	Geotextiles-applications	04-9-2019	with
49 50	Geogrids & nets	05-9-2019	discussions
51	Geomembrane - properties	06-9-2019	discussions
52	Geomembrane- manufacturing, applications, functions	07-9-2019	
53	Gabions –properties ,applications	09-9-2019	
54	Tutorial	11-9-2019	
UNIT			
55	Grouting-objectives	13-9-2019	
56	Grouts and their applications	16-9-2019	
57	Methods of grouting	17-9-2019	
58	Stage of grouting	19-9-2019	Lecture
59	Hydraulic fracturing in soils& rocks	20-9-2019	intersperse
	Post grout tests	21-9-2019	with
60	Stage of grouting	23-9-2019	discussion
61	Tutorial	25-9-2019	

TENTATIVE LESSON PLAN

Course Title: GW	DM (R164101I)	
Section : Sec A	Date: 10/6/2019	Page No: 01 of 04
Revision No: 00	Prepared By: K. CHANDRA PADMAKAR	Approved By : HOD

No of	TOPIC

No. of	TOPIC	Date	Mode of
Periods			Delivery
UNIT -I INTROD	UCTION TO GROUNDWATER D	EVELOPMENT	

T1 Groundwater Development by Gopala Ranjan, T2 Groundwater Development by DK. Todd

CO: Estimate Aquifer Parameters and Yield of Wells

1	GW in hydrological cycle	10/06/19	
2	GW occurrence	11/06/19	
3	Aquifer parameters and their determination	14/06/19	
4	General ground water flow equation	14/06/19	Lecture
5	Well Hydraulics- steady radial flow in confined aquifer	15/06/19	interspersed with discussions
6	Unsteady radial flow in unconfined aquifer	17/06/19	
7	Theis solution, jacob and chow's methods	18/06/19	
8	Leaky aquifers	19/06/19	

UNIT-II WELL DESIGN

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO2: Radial Flow Towards well in Confined and Unconfined Wells

9	Well Design- water well design- well diameter	24/06/19	
10	Well depth	25/06/19	
11	Well screen-screen length, slot size, screen diameter	26/06/19	Lecture interspersed
12	Screen selection	28/06/19	with discussions
13	Design of collector wells	28/06/19	discussions
14	Infiltration gallery	28/06/19	

UNIT-III WELL CONSTRUCTION AND DEVELOPMENT

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO3: Design wells and construction practices

15	Well Construction and Development- Water wells	8/7/19	
16	Drilling methods-rotary drilling, precussion drilling	9/7/19	
17	Well construction-installation of well screens	9/7/19	
18	Pull back method, open hole method,	11/7/19	
19	Bail-down method	12/7/19	Lecture
20	Wash down methods	15/7/19	interspersed with
21	Well development-mechanical surging using compressed air	16/7/19	discussions
22	High velocity getting of water	22/7/19	
23	Over pumping and back washing	24/7/19	
24	Well completion	26/7/19	
25	Well disinfection and maintenance	29/7/19	

UNIT -IV ARTIFICIAL RECHARGE

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO4: Artificial Recharge for Increasing Groundwater Potential.

26	Artificial Recharge-Introduction	30/7/19	
27	Recharge methods-basin, stream-channel	1/8/19	
28	Ditch and furrow	3/8/19	
29	Flooding and recharge well methods	19/8/19	Lecture
30	Recharge mounds and induced recharge	20/8/19	interspersed
31	Saline Water Intrusion-Occurrence	21/8/19	with discussions
32	Ghyben-Herzberg relation	22/8/19	
33	Shape of interface	24/8/19	
34	Control of Saline water intrusion	26/8/19	

UNIT -V GEOPHYSICS

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO5: Geophysical Exploration data and scientific source finding of aquifer.

35	Geophysics- Surface methods of exploration of GW	27/8/19	Lecture
36	Electrical resistivity and seismic refraction methods	29/8/19	interspersed
37	Subsurface methods	3/9/19	with
38	Geophysical logging	4/9/19	discussions
39	Resistivity logging, Aerial Photogrammetry applications	6/9/19	discussions

UNIT -VI GROUNDWATER MODELLING T1 Groundwater Development by Gopala Ranjan, T2 Groundwater Development by DK. Todd CO6: Apply Appropriate Measures for Groundwater Management Ground water Modelling and Management-7/9/19 Lecture Basic principles Analog models-viscous fluid models and membrane 13/9/19 interspersed 41 with Digital models-finite difference and finite element 19/9/19 discussions 42 20/9/19 Concepts of groundwater management 43 Basin management by conjunctive use-case studies 23/9/19 44

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PRINCIPAL

TENTATIVE LESSON PLAN

Course Title: GW		
Section : Sec B	Date: 10/6/2019	Page No: 01 of 04
Revision No: 00	Prepared By: K. CHANDRA PADMAKAR	Approved By : HOD

Tools:	Black	board,	PP	Is,	Model	

No. of Periods	TOPIC	Date	Mode of Delivery
T1 Ground	NTRODUCTION TO GROUNDWATER DEVELO water Development by Gopala Ranjan, water Development by DK. Todd te Aquifer Parameters and Yield of Wells	PMENT	
1	GW in hydrological cycle	10/06/19	
2	GW occurrence	11/06/19	
3	Aquifer parameters and their determination	14/06/19	
4	General ground water flow equation	14/06/19	Lecture
5	Well Hydraulics- steady radial flow in confined aquifer	15/06/19	interspersed with discussions
6	Unsteady radial flow in unconfined aquifer	17/06/19	
7	Theis solution, jacob and chow's methods	18/06/19	
8	Leaky aquifers	19/06/19	1.

UNIT-II WELL DESIGN

T1 Groundwater Development by Gopala Ranjan, T2 Groundwater Development by DK. Todd

CO2: Radial Flow Towards well in Confined and Unconfined Wells

9	Well Design- water well design- well diameter	24/06/19	
10	Well depth	25/06/19	T
11	Well screen-screen length, slot size, screen diameter	26/06/19	Lecture interspersed
12	Screen selection	28/06/19	with discussions
13	Design of collector wells	28/06/19	discussions
14	Infiltration gallery	28/06/19	

UNIT-III WELL CONSTRUCTION AND DEVELOPMENT

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO3: Design wells and construction practices

15	Well Construction and Development- Water wells	8/7/19	
16	Drilling methods-rotary drilling, precussion drilling	9/7/19	
17	Well construction-installation of well screens	9/7/19	
18	Pull back method, open hole method,	11/7/19	
19	Bail-down method	12/7/19	Lecture
20	Wash down methods	15/7/19	interspersed
21	Well development-mechanical surging using compressed air	16/7/19	discussions
22	High velocity getting of water	22/7/19	-
23	Over pumping and back washing	24/7/19	
24	Well completion	26/7/19	
25	Well disinfection and maintenance	29/7/19	

UNIT -IV ARTIFICIAL RECHARGE

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO4: Artificial Recharge for Increasing Groundwater Potential.

26	Artificial Recharge-Introduction	30/7/19	Lecture interspersed with discussions
27	Recharge methods-basin, stream-channel	1/8/19	
28	Ditch and furrow	3/8/19	
29	Flooding and recharge well methods	19/8/19	
30	Recharge mounds and induced recharge	20/8/19	
31	Saline Water Intrusion-Occurrence	21/8/19	
32	Ghyben-Herzberg relation	22/8/19	
33	Shape of interface	24/8/19	
34	Control of Saline water intrusion	26/8/19	

UNIT -V GEOPHYSICS

T1 Groundwater Development by Gopala Ranjan,

T2 Groundwater Development by DK. Todd

CO5: Geophysical Exploration data and scientific source finding of aquifer.

35	Geophysics- Surface methods of exploration of GW	27/8/19	Lecture interspersed with discussions
36	Electrical resistivity and seismic refraction methods	29/8/19	
37	Subsurface methods	3/9/19	
38	Geophysical logging	4/9/19	
39	Resistivity logging, Aerial Photogrammetry applications	6/9/19	

Γ2 Groundw	vater Development by Gopala Ranjan, vater Development by DK. Todd Appropriate Measures for Groundwater Management		
40	Ground water Modelling and Management- Basic principles	7/9/19	Lecture
41	Analog models-viscous fluid models and membrane models	13/9/19	interspersed with
42	Digital models-finite difference and finite element models	19/9/19	discussions
43	Concepts of groundwater management	20/9/19	
44	Basin management by conjunctive use-case studies	23/9/19	

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PRINCIPAL