G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
Academic Year: 2022-23			II B.Tech II SEM
Subject: ANALOG COMMUNICATION SYSTEMS		SECTION-A	Staff: C. LOKANATH REDDY
Session	**Unit**	**Date**	**Topic**
1		3/6/2023	COURSE OVERVIEW, COURSE OBJECTIVES, COURSE OUTCOMES
2	I	3/8/2023	**Amplitude Modulation and Demodulation:** Elements of communication systems
3	I	3/13/2023	Modulation
4	I	3/14/2023	Amplitude Modulation (AM) - Single tone modulation
5	I	3/15/2023	power calculations
6	I	3/20/2023	generation of AM signals
7	I	3/21/2023	generation of AM signals
8	I	3/27/2023	generation of AM signals
9	I	3/28/2023	demodulation of AM signals
10	I	3/29/2023	demodulation of AM signals
11	I	4/3/2023	Generation of DSBSC signals.
12	I	4/4/2023	demodulation of DSBSC signals.
13	I	4/5/2023	Generation SSBSC signals.
14	I	4/10/2023	demodulation of SSBSC signals.
15	I	4/11/2023	Generation VSBSC signals.
16	I	4/12/2023	demodulation of VSBSC signals.
17	I	4/17/2023	Illustration of problems
18	I	4/18/2023	Illustration of problems
19	II	4/19/2023	**Angle Modulation:** Introduction
20	II	4/24/2023	Generation of Frequency Modulation (FM) signals
21	II	4/25/2023	demodulation of Frequency Modulation (FM) signals
22	II	4/26/2023	Generation of Phase modulation (PM) signals
23	II	5/1/2023	demodulation of Phase modulation (PM) signals
24	II	5/2/2023	Narrow band frequency Modulation
25	II	5/3/2023	wide band frequency modulation
26	II	5/8/2023	Illustration of problems
27	III	5/9/2023	**Pulse Modulation:** Sampling theorem
28	III	5/10/2023	Pulse Amplitude Modulation (PAM),
29	III	5/15/2023	Pulse Width Modulation (PWM)
30	III	5/16/2023	Pulse Position Modulation (PPM).
31	III	5/17/2023	Illustration of problems
32	III	5/22/2023	Illustration of problems
33	IV	5/23/2023	**Receivers and Multiplexing:** Super-heterodyne AM receiver
34	IV	5/24/2023	pre-emphasis, and de-emphasis
35	IV	5/29/2023	FM capture Effect, FM receiver
36	IV	5/30/2023	frequency-division multiplexing (FDM),
37	IV	5/31/2023	time-division multiplexing (TDM).
38	V	6/5/2023	**Noise:** Types of Noise, Narrowband noise
39	V	6/6/2023	Time domain representation and quadrature
40	V	6/7/2023	filtered white noise, signal to noise ratio
41	V	6/12/2023	noise equivalent bandwidth, effective noise temperature, and noise figure
42	V	6/13/2023	Performance analysis of AM, FM, PM receivers in the presence of noise.
43		6/14/2023	REVISION OF UNIT_I &UNIT_II
44		6/19/2023	REVISION OF UNIT_III
45		6/21/2023	REVISION OF UNIT_IV
46		6/26/2023	REVISION OF UNIT_V

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
Academic Year: 2022-23			**II B.Tech II SEM**
Subject: ANALOG COMMUNICATION SYSTEMS			**SECTION-B Staff: C. LOKANATH REDDY**
Session	**Unit**	**Date**	**Topic**
1		3/6/2023	COURSE OVERVIEW, COURSE OBJECTIVES, COURSE OUTCOMES
2	I	3/8/2023	**Amplitude Modulation and Demodulation:** Elements of communication systems
3	I	3/13/2023	Modulation
4	I	3/14/2023	Amplitude Modulation (AM) - Single tone modulation
5	I	3/15/2023	power calculations
6	I	3/20/2023	generation of AM signals
7	I	3/21/2023	generation of AM signals
8	I	3/27/2023	generation of AM signals
9	I	3/28/2023	demodulation of AM signals
10	I	3/29/2023	demodulation of AM signals
11	I	4/3/2023	Generation of DSBSC signals.
12	I	4/4/2023	demodulation of DSBSC signals.
13	I	4/5/2023	Generation SSBSC signals.
14	I	4/10/2023	demodulation of SSBSC signals.
15	I	4/11/2023	Generation VSBSC signals.
16	I	4/12/2023	demodulation of VSBSC signals.
17	I	4/17/2023	Illustration of problems
18	I	4/18/2023	Illustration of problems
19	II	4/19/2023	**Angle Modulation:** Introduction
20	II	4/24/2023	Generation of Frequency Modulation (FM) signals
21	II	4/25/2023	demodulation of Frequency Modulation (FM) signals
22	II	4/26/2023	Generation of Phase modulation (PM) signals
23	II	5/1/2023	demodulation of Phase modulation (PM) signals
24	II	5/2/2023	Narrow band frequency Modulation
25	II	5/3/2023	wide band frequency modulation
26	II	5/8/2023	Illustration of problems
27	III	5/9/2023	**Pulse Modulation:** Sampling theorem
28	III	5/10/2023	Pulse Amplitude Modulation (PAM),
29	III	5/15/2023	Pulse Width Modulation (PWM)
30	III	5/16/2023	Pulse Position Modulation (PPM).
31	III	5/17/2023	Illustration of problems
32	III	5/22/2023	Illustration of problems
33	IV	5/23/2023	**Receivers and Multiplexing:** Super-heterodyne AM receiver
34	IV	5/24/2023	pre-emphasis, and de-emphasis
35	IV	5/29/2023	FM capture Effect, FM receiver
36	IV	5/30/2023	frequency-division multiplexing (FDM),
37	IV	5/31/2023	time-division multiplexing (TDM).
38	V	6/5/2023	**Noise:** Types of Noise, Narrowband noise
39	V	6/6/2023	Time domain representation and quadrature
40	V	6/7/2023	filtered white noise, signal to noise ratio
41	V	6/12/2023	noise equivalent bandwidth, effective noise temperature, and noise figure
42	V	6/13/2023	Performance analysis of AM, FM, PM receivers in the presence of noise.
43		6/14/2023	REVISION OF UNIT_I &UNIT_II
44		6/19/2023	REVISION OF UNIT_III
45		6/21/2023	REVISION OF UNIT_IV
46		6/26/2023	REVISION OF UNIT_V

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
Academic Year: 2022-23			II B.Tech II SEM
Subject: ANALOG COMMUNICATION SYSTEMS			SECTION-C
Session	**Unit**	**Date**	**Topic**
1		3/6/2023	COURSE OVERVIEW, COURSE OBJECTIVES, COURSE OUTCOMES
2	I	3/8/2023	**Amplitude Modulation and Demodulation:** Elements of communication systems
3	I	3/13/2023	Modulation
4	I	3/14/2023	Amplitude Modulation (AM) - Single tone modulation
5	I	3/15/2023	power calculations
6	I	3/20/2023	generation of AM signals
7	I	3/21/2023	generation of AM signals
8	I	3/27/2023	generation of AM signals
9	I	3/28/2023	demodulation of AM signals
10	I	3/29/2023	demodulation of AM signals
11	I	4/3/2023	Generation of DSBSC signals.
12	I	4/4/2023	demodulation of DSBSC signals.
13	I	4/5/2023	Generation SSBSC signals.
14	I	4/10/2023	demodulation of SSBSC signals.
15	I	4/11/2023	Generation VSBSC signals.
16	I	4/12/2023	demodulation of VSBSC signals.
17	I	4/17/2023	Illustration of problems
18	I	4/18/2023	Illustration of problems
19	II	4/19/2023	**Angle Modulation:** Introduction
20	II	4/24/2023	Generation of Frequency Modulation (FM) signals
21	II	4/25/2023	demodulation of Frequency Modulation (FM) signals
22	II	4/26/2023	Generation of Phase modulation (PM) signals
23	II	5/1/2023	demodulation of Phase modulation (PM) signals
24	II	5/2/2023	Narrow band frequency Modulation
25	II	5/3/2023	wide band frequency modulation
26	II	5/8/2023	Illustration of problems
27	III	5/9/2023	**Pulse Modulation:** Sampling theorem
28	III	5/10/2023	Pulse Amplitude Modulation (PAM),

29	III	5/15/2023	Pulse Width Modulation (PWM)
30	III	5/16/2023	Pulse Position Modulation (PPM).
31	III	5/17/2023	Illustration of problems
32	III	5/22/2023	Illustration of problems
33	IV	5/23/2023	**Receivers and Multiplexing:** Super-heterodyne AM receiver
34	IV	5/24/2023	pre-emphasis, and de-emphasis
35	IV	5/29/2023	FM capture Effect, FM receiver
36	IV	5/30/2023	frequency-division multiplexing (FDM),
37	IV	5/31/2023	time-division multiplexing (TDM).
38	V	6/5/2023	**Noise:** Types of Noise, Narrowband noise
39	V	6/6/2023	Time domain representation and quadrature representation
40	V	6/7/2023	filtered white noise, signal to noise ratio
41	V	6/12/2023	noise equivalent bandwidth, effective noise temperature, and noise figure
42	V	6/13/2023	Performance analysis of AM, FM, PM receivers in the presence of noise.
43		6/14/2023	REVISION OF UNIT_I &UNIT_II
44		6/19/2023	REVISION OF UNIT_III
45		6/21/2023	REVISION OF UNIT_IV
46		6/26/2023	REVISION OF UNIT_V

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
Academic Year: 2022-23			
Subject: ELECTROMAGNETICS & TRANSMISSION LINES			SECTION-A , B, C
Date	Period	Unit	Topic
3/6/2023	4	1	Coulomb‘s Law
3/13/2023	4	1	ELECTRIC FIELD INTENSITY
3/15/2023	4	1	CHARGE DISTRIBUTIONS
3/15/2023	5	1	FIELD DUE TO A LINE
3/20/2023	4	1	SURFACE CHARGE DISTRIBUTIONS
3/27/2023	4	1	Electric Flux Density
3/29/2023	4	1	Gauss’s Law and applications
3/29/2023	5	1	Electric Potential
4/3/2023	4	1	Relation between **E** and v
4/5/2023	4	1	Electric dipole
4/5/2023	5	1	Conduction current and convection current, Current continuity equation, Relaxation time
4/10/2023	4	1	Poisson’s and Laplace’s Equations
4/12/2023	4	1	Dielectric Constant, Isotropic, homogeneous and linear dilectric medium
4/12/2023	5	2	Biot-Savart Law and Magnetic Field Intensity
4/17/2023	4	2	Ampere’s Circuital Law
4/19/2023	4	2	Applications of Ampere’s Law
4/19/2023	5	2	Magnetic Flux and Magnetic Flux Density
4/24/2023	4	2	Maxwell’s Two Equations for steady Magnetic Field
4/26/2023	4	2	Magnetic Potentials
4/26/2023	5	2	Magnetic Force
5/8/2023	4	2	Force and Torque on a closed circuit, Magnetic dipole , magnetic energy
5/10/2023	4	3	Faraday’s Law and Transformer e.m.f
5/10/2023	5	3	Contradiction of Ampere’s Law and Displacement Current Density

5/15/2023	4	3	Maxwell's Equations in Point Forms and Integral Form and Word Statements
5/17/2023	4	3	Boundary Conditions of Electromagnetic fields
5/17/2023	5	3	Dielectric-Dielectric
5/22/2023	4	3	Dielectric-Conductor and Conductor-Freespace Interfaces
5/24/2023	4	4	Uniform Plane Waves – Definition
5/24/2023	5	4	Wave Equations for Conducting and Perfect Dielectric Media
5/29/2023	4	4	All Relations between E & H
5/31/2023	4	4	Wave Propagation in Lossless, Conducting Media, Good Conductors and Good Dielectrics
5/31/2023	5	4	Poynting vector
6/5/2023	4	4	Reflection of uniform plane waves at Normal and Oblique Incidences for both Perfect Conductor and Perfect Dielectrics
6/7/2023	4	4	Reflection of uniform plane waves at Normal and Oblique Incidences for both Perfect Conductor and Perfect Dielectrics
6/7/2023	5	4	Brewster Angle, Critical Angle and Total Internal Reflection
6/12/2023	4	5	Transmission line parameters (Primary and Secondary)
6/14/2023	4	5	Transmission line equation
6/14/2023	5	5	Input impedance, Reflection Coefficient
6/19/2023	4	5	Standing wave ratio & power
6/21/2023	4	5	Smith chart & its applications
6/21/2023	5	5	Applications of transmission lines of various lengths
6/22/2023	4	5	Micro-strip transmission lines – input impedance, effective dielectric constant

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL				
PROBABILITY THEORY AND STOCHASTIC PROCESSES LESSON PLAN(2022-2023)				
II ECE-A				
S.No	**Date**	**Period**	**unit**	**Topic**
1	6/3/2023	1	1	Definition of probability
2	7/3/2023	3	1	Joint Probability
3	8/3/2023	4	1	Conditional Probability
4	9/3/2023	6	1	Total Probability
5	10/3/2023	1	1	Bayes Theorem
6	11/3/2023	3	1	Tutorial#1
7	13/3/23	4	1	Random Variable
8	15/3/23	6	1	Density Function of Random Variable
9	17/3/23	1	1	Distribution Function of Random Variable
10	23/3/23	6	1	Tutorial #2
11	24/3/23	1	1	Gaussian and Binomial Distributions
12	25/3/23	3	1	Poissons and Exponential Distributions
13	25/3/23	4	1	Uniform and Rayleigh Distributions
14	29/3/23	6	1	Tutorial #3
15	31/3/23	1	1	Operations on Single Random Variable
16	1/4/2023	3	1	Expectation, moments, characteristic function
17	1/4/2023	4	1	Tutorial #4
18	7/4/2023	1	2	Joint Distribution Function
19	8/4/2023	3	2	Joint Density Function
20	8/4/2023	4	2	Tutorial #5
21	12/4/2023	6	2	Central Limit Theorem
23	19/4/23	6	2	Operations on Multiple Random Variables
23	21/4/23	1	2	Expectation
24	24/4/23	3	2	Joint Moments
25	24/4/23	4	2	Joint Characteristic function
26	5/5/1955	1	2	Tutorial #6
27	6/5/2023	3	2	Revision
28	6/5/2023	4	3	Classification of Random processes
29	10/5/2023	6	3	distribution and density functions
30	12/5/2023	1	3	Tutorial #7
31	13/5/23	3	3	Stationary processes
32	13/5/23	4	3	Correlation functions
33	17/5/23	6	3	Covariance functions
34	19/5/23	1	3	Tutorial#8
35	20/5/23	3	3	Stochastic processes–spectral characteristics
36	20/5/23	4	4	Properties of power density spectrum
37	24/5/23	6	4	Relationship between power spectrum and autocorrelation functi
38	26/5/23	1	4	Properties of cross-power density spectrum
39	27/5/23	3	4	Relationship between cross-power spectrum and cross-correlatio
40	27/5/23	4	4	Tutorial#9
41	31/5/23	6	5	Random signal response of linear systems
42	2/6/2023	1	5	System response – convolution

43	3/6/2023	3	5	Mean and mean- squared value of system response
44	3/6/2023	4	5	Autocorrelation and cross-correlation functions of system response
45	7/6/2023	6	5	Autocorrelation and cross-correlation functions of system response

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL					
PROBABILITY THEORY AND STOCHASTIC PROCESSES LESSON PLAN(2022-2023)					
II ECE-B					
Serial No	**Date**	**Period**	**unit**	**Topic**	**Mapping to CO**
1	3/3/2023	6	1	Definition of probability	CO1
2	4/3/2023	5	1	Joint Probability	CO1
3	6/3/2023	5	1	Conditional Probability	CO1
4	9/3/2023	7	1	Total Probability	CO1
5	10/3/2023	6	1	Bayes Theorem	CO1
6	11/3/2023	5	1	Tutorial#1	CO1
7	13/3/23	5	1	Random Variable	CO2
8	16/3/23	7	1	Density Function of Random Variable	CO2
9	17/3/23	6	1	Distribution Function of Random Variable	CO2
10	20/3/23	5	1	Tutorial #2	CO2
11	23/3/23	7	1	Gaussian and Binomial Distributions	CO2
12	24/3/23	6	1	Poissons and Exponential Distributions	CO2
13	25/3/23	5	1	Uniform and Rayleigh Distributions	CO2
14	27/3/23	5	1	Tutorial #3	CO2
15	30/3/23	7	1	Operations on Single Random Variable	CO2
16	31/3/23	6	1	Expectation, moments, characteristic functio	CO2
17	1/4/2023	5	1	Tutorial #4	CO2
18	6/4/2023	7	2	Joint Distribution Function	CO2
19	7/4/2023	6	2	Joint Density Function	CO2
20	8/4/2023	5	2	Tutorial #5	CO2
21	10/4/2023	5	2	Central Limit Theorem	CO2
23	13/4/23	7	2	Operations on Multiple Random Variables	CO2
23	17/4/23	5	2	Expectation	CO2
24	20/4/23	7	2	Joint Moments	CO2
25	21/4/23	6	2	Joint Characteristic function	CO2
26	24/4/23	5	2	Tutorial #6	CO2
27	24/4/23	5	2	Revision	CO2
28	4/5/2023	7	3	Classification of Random processes	CO3
29	5/5/2023	6	3	distribution and density functions	CO3
30	6/5/2023	5	3	Tutorial #7	CO3
31	8/5/2023	5	3	Stationary processes	CO3
32	11/5/2023	7	3	Correlation functions	CO3
33	12/5/2023	6	3	Covariance functions	CO3
34	13/5/23	5	3	Tutorial#8	CO3
35	15/5/23	5	3	Stochastic processes–spectral characteristics	CO4
36	18/5/23	7	4	Properties of power density spectrum	CO4
37	19/5/23	6	4	Relationship between power spectrum and autocorrelation function	CO4
38	20/5/23	5	4	Properties of cross-power density spectrum	CO4
39	22/5/23	5	4	Relationship between cross-power spectrum and cross-correlation function	CO4
40	25/5/23	7	4	Tutorial#9	CO4

41	26/5/23	6	5	Random signal response of linear systems	CO5
42	27/5/23	5	5	System response – convolution	CO5
43	29/5/23	5	5	Mean and mean- squared value of system response	CO5
44	1/6/2023	7	5	Autocorrelation and cross-correlation functions of system response	CO5
45	2/6/2023	6	5	Autocorrelation and cross-correlation functions of system response	CO5

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL					
PROBABILITY THEORY AND STOCHASTIC PROCESSES LESSON PLAN(2022-2023)					
II ECE-C					
Serial No	**Date**	**Period**	**unit**	**Topic**	**Mapping to CO**
1	6/3/2023	1	1	Definition of probability	CO1
2	8/3/2023	1	1	Joint Probability	CO1
3	9/3/2023	2	1	Conditional Probability	CO1
4	9/3/2023	3	1	Total Probability	CO1
5	13/3/23	1	1	Bayes Theorem	CO1
6	15/3/23	1	1	Tutorial#1	CO1
7	16/3/23	2	1	Random Variable	CO2
8	16/3/23	3	1	Density Function of Random Variable	CO2
9	20/3/23	1	1	Distribution Function of Random Variable	CO2
10	23/3/23	1	1	Tutorial #2	CO2
11	23/3/23	2	1	Gaussian and Binomial Distributions	CO2
12	23/3/23	3	1	Poissons and Exponential Distributions	CO2
13	27/3/23	2	1	Uniform and Rayleigh Distributions	CO2
14	29/3/23	3	1	Tutorial #3	CO2
15	30/3/23	1	1	Operations on Single Random Variable	CO2
16	30/3/23	1	1	Expectation, moments, characteristic function	CO2
17	6/4/2023	2	1	Tutorial #4	CO2
18	6/4/2023	3	2	Joint Distribution Function	CO2
19	10/4/2023	1	2	Joint Density Function	CO2
20	12/4/2023	1	2	Tutorial #5	CO2
21	13/4/23	2	2	Central Limit Theorem	CO2
23	13/4/23	3	2	Operations on Multiple Random Variables	CO2
23	17/4/23	1	2	Expectation	CO2
24	19/4/23	1	2	Joint Moments	CO2
25	20/4/23	2	2	Joint Characteristic function	CO2
26	20/4/23	3	2	Tutorial #6	CO2
27	24/4/23	1	2	Revision	CO2
28	4/5/2023	2	3	Classification of Random processes	CO3
29	4/5/2023	3	3	distribution and density functions	CO3
30	8/5/2023	1	3	Tutorial #7	CO3
31	10/5/2023	1	3	Stationary processes	CO3
32	11/5/2023	2	3	Correlation functions	CO3
33	11/5/2023	3	3	Covariance functions	CO3
34	15/5/23	1	3	Tutorial#8	CO3
35	17/5/23	1	3	Stochastic processes–spectral characteristics	CO4
36	18/5/23	2	4	Properties of power density spectrum	CO4
37	18/5/23	3	4	Relationship between power spectrum and autocorrelation function	CO4
38	22/5/23	1	4	Properties of cross-power density spectrum	CO4
39	24/5/23	1	4	Relationship between cross-power spectrum and cross-correlation function	CO4
40	25/5/23	2	4	Tutorial#9	CO4
41	25/5/23	3	5	Random signal response of linear systems	CO5
42	29/5/23	1	5	System response – convolution	CO5

43	31/5/23	1	5	Mean and mean- squared value of system response	CO5
44	1/6/2023	2	5	Autocorrelation and cross-correlation functions of system response	CO5
45	1/6/2023	3	5	Autocorrelation and cross-correlation functions of system response	CO5

GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering & Technology::Kurnool
Department of ECE
Lesson Plan for AY 2022-2023 III B.Tech II SEM

Session	Unit	Topic
1	I	**MOS Transistor:** Introduction,
2	I	MOS device design equations
3	I	Threshold Voltage
4	I	Body Effect
5	I	Channel Length Modulation
6	I	**CMOS Processing Technology:** Overview, wafer processing, oxidation
7	I	Epitaxy, deposition, ion implantation, diffusion, etching, and photolithography, The silicon gate process
8	I	NMOS, fabrication technologies.
9	I	NMOS, PMOSand CMOS fabrication technologies.
10	II	**CMOS Inverter:** Basic circuit,
11	II	inverter– DC characteristics, transient characteristics, noise margins,
12	II	layout considerations, inverter switching characteristics,
13	II	switching intervals, high-to-low time, low-to-high time,
14	II	maximum switching frequency, transient effects on the VTC
15	II	RCmodelling, propagation delay,
16	II	Inverter design– DC design, transient design, power dissipation.
17	III	**Static Logic Gates:** Complex logic functions
18	III	CMOS NAND & NOR gates–
19	III	DC characteristics, transient characteristics,
20	III	complex logic gates, Pass transistor logic,
21	III	EX-OR and equivalence gates adder circuits
22	III	SR and D-type Latch,
23	III	CMOS SRAM cell
24	III	Schmitt trigger circuits,
25	III	Tri-State output circuits and pseudo-nMOS logic gates.
26	IV	**Transmission Gate Logic Circuits:** Basic structure,
27	IV	TG as tri-state controller,
28	IV	electrical analysis– logic 1 transfer, logic 0 transfer,
29	IV	RC Modelling–
30	IV	TG resistance,
31	IV	TG capacitance
32	IV	TG based switch logic gates– multiplexers,
33	IV	OR, XOR, TG adders
34	IV	TG registers,
35	IV	the D-type Flip-Flop
36	V	**Dynamic Logic Circuit Concepts**
37	V	Charge leakage,

38	V	charge sharing
39	V	the dynamic RAM cell
40	V	clocksand synchronization
41	V	clocked-CMOS and
42	V	clock generation circuits

GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering & Technology::Kurnool
Department of ECE
Lesson Plan for AY 2022-2023 III B.Tech II SEM

Session	Unit	Topic
1	I	**UNIT-I** **Discrete Fourier Transform**: Review of discrete time signals and systems,
2	I	Review of discrete time signals and systems,
3	I	Review of discrete time systems,
4	I	Review of discrete time signals operations,
5	I	Introduction to DFT,
5	I	Relationship of the DFT to other transforms, properties of the DFT
6	I	Use of the DFT in linear filtering.
7	I	Linear convolution and circular convolution;
8	I	Filtering of long data sequences using DFT:Over-Lap Add Method
9	I	Over-Lap Save Method
	I	Problems
10	II	**UNIT-II** **Fast Fourier Transform Algorithms**: Direct computation of DFT,
11	II	Introduction to Fast Fourier Transform, Evaluating N- point DFT using FFT Algorithms:
12	II	Radix-2 Decimation-in-Time FFT
13	II	Decimation-in-Frequency FFT,
14	II	Split Radix-2 FFT algorithms,
15	II	Compute IDFT using Inverse FFT algorithms.
16	II	Problems
17	III	**UNIT-III** **Realization of digital filters**: Introduction to FIR systems,
18	III	Structures for FIR systems - direct form,
19	III	design of finite impulse response (FIR) filters- Frequency Response,.
20	III	Design of FIR filters using Fourier-Series Method,
21	III	design of linear phase FIR filters using windows
22	III	design of linear phase FIR filters frequency sampling method
23	III	Problems
24	III	Problems
25	III	Problems
26	IV	**UNIT-IV** **Design of digital filters**: Introduction,
27	IV	structures for IIR systems – direct form,

28	IV	signal flow graphs & transposed, cascade form,
29	IV	parallel form and lattice structures.
30	IV	Design of analog Butterworth
31	IV	Design of analog Chebyshev filters.
32	IV	Design of infinite impulse response filters from analog filters –
33	IV	IIR filter design by approximation of derivatives,
34	IV	Impulse invariance
35	IV	bilinear transformation methods.
36	IV	**Problems**
37	V	**UNIT-V** **Multirate Signal Processing**: Introduction,
38	V	decimation, interpolation,
39	V	sampling rate conversion by a rational factor,
40	V	multistage implementation of sampling rate conversion,
41	V	applications of multirate signal processing.
42	V	Problems

GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering & Technology::Kurnool
Department of CSE
Lesson Plan of FDMS 2022-2023
III B.Tech II Sem

Session	Unit	Topic
1	I	Introduction to DBMS
2	I	Basics of Database System Applications
3	I	Principle of Database Systems
4	I	View of Data
5	I	View of Data - Data Abstraction
6	I	Instances and Schemas
7	I	Data Models
8	I	Introduction to Database Languages
9	I	Database Languages - DDL, DML, ER diagrams
10	II	Fundamentals of Relational Model
11	II	Integrity Constraints over Relations
12	II	Enforcing Integrity constraints
13	II	Querying relational data
14	II	Logical data base Design
15	II	Views
16	II	ACID Properties
17	III	Basic SQL Queries
18	III	Introduction to Sub queries
19	III	Correlated Sub queries
20	III	Set - Comparison Operators
21	III	Aggregate Operators
22	III	NULL values
23	III	Logical operators
24	III	Joins
25	IV	Normalizations
26	IV	Redundancy Issues
27	IV	Decompositions
28	IV	Functional Dependencies
29	IV	various Normal Forms
30	V	Data on External Storage
31	V	File Organization
32	V	various indexing structures

GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering & Technology::Kurnool
Department of ECE
Lesson Plan of GS for AY 2022-2023

Session	unit	Topic covered
1	I	introduction
2	I	Understanding of gender
3	I	Why should we study it
4	I	socialization
5	I	Making men ,Making women gender roles
6	I	Preparing for women hood
7	I	Different masculinities
8	I	First lesson in cast
9	II	Gender and biology
10	II	Missing Women
11	II	Sex selection and its consequences
12	II	Declining of sex ratio
13	II	Demographic consequences
14	II	Gender spectrum
15	II	Transgender and their difficulties
16	II	Gender bodies
17	II	Gender health
18	III	Gender and labor
19	III	Different types of labor
20	III	Mother's work is invisible or uncountable
21	III	share the work load
22	III	Politics and economics in Women work
23	III	Single women work
24	III	Working women
25	III	Gender pay gap
26	III	Gender based division labor
27	III	Revision
28	IV	Gender violence
29	IV	Sexual harassment
30	IV	Eve teasing
31	IV	Reasons and curb harassment
32	IV	Domestic violence present in the home and protection acts
33	IV	When women unite
34	IV	Rebuilding lives after sexual violence
35	IV	I fought for my life
36	V	Gender lens
37	V	Knowledge structure of gender
38	V	Gender issues through knowledge of gender lens
39	V	Questions for historians
40	V	Reclaiming of past historians

GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering & Technology::Kurnool
Department of ECE
Lesson Plan of MPMC for AY 2022-2023
III B.Tech II Sem

Session	Unit	Topic
1	I	Introduction-8086 features
2	I	Architecture
3	I	Register organization
4	I	pin diagram
5	I	timing and control signals
6	I	system timing diagrams , memory segmentation,
7	I	memory organization and memory banks accessing
8	I	Interrupt structure of 8086
9	I	interrupt vector table
10	II	Instruction formats
11	II	addressing modes
12	II	instruction set of 8086
13	II	assembler directives
14	II	sorting, multiplication
15	II	division, multi- byte arithmetic, code conversion
16	II	String manipulation instructions - simple ALPs
17	III	Low power RISC MSP430 features
18	III	block diagram
19	III	MSP430G2X53–blockdiagram
20	III	memory address space
21	III	register set
22	III	addressing modes
23	III	instruction set
24	III	on-chip peripherals (analog and digital)
25	IV	I/O ports and pull up/down resistors concepts
26	IV	interrupts and interrupt programming
27	IV	watchdog timer
28	IV	system clocks
29	IV	low power modes
30	IV	active vs standby current consumption
31	IV	Timer & real time clock
32	IV	PWM control
33	IV	ADC

34	IV	comparator
35	V	Serial communication basics
36	V	synchronous/asynchronous interfaces
37	V	UART protocol
38	V	spi protocol
39	V	I2C protocol
40	V	Implementing and programming UART using MSP430
41	V	Implementing and programming SPI using MSP430
42	V	Implementing and programming I2C using MSP430

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Electronics and Communication Engineering

Grade of the Subject: Theory

Name of the Subject:		CISCO NETWORKING		
Name of the Month	week	periods	Date	Topics to be covered as per JNTUA syllabus
July	5th week	1	27-Dec-2022	Introduction to Data Communications
		2	28-Dec-2022	Introduction to Networks
		3	29-Dec-2022	**UNIT I:** The Internet,Protocols & Standards
		4	29-Dec-2022	Layered Tasks,OSI Model
		5	3-Jan-2023	Layers in the OSI Model
		6	4-Jan-2023	Layers in the OSI Model
	2nd Week	7	5-Jan-2023	TCP/IP Protocol Suite
		8	5-Jan-2023	Addressing
		9	10-Jan-2023	Line Coding
		10	11-Jan-2023	Line Coding schemes
		11	12-Jan-2023	Block coding
		12	12-Jan-2023	Transmission Media-Guided Media
	3rd Week	13	17-Jan-2023	Fiber Optic Cable
		14	18-Jan-2023	Unguided Media-Wireless
		15	19-Jan-2023	Microwaves,Infrared
		16	19-Jan-2023	Revision
		17	15-Jan-2023	**Unit-2:Switching-**Circuit Switched Networks
		18	24-Jan-2023	Datagram Networks
	5th Week	19	25-Jan-2023	Virtual Circuit Networks
		20	31-Jan-2023	Structure of a switch-Space Division,Crossbar
		21	1-Feb-2023	Multistage Switch
		22	2-Feb-2023	Time Division switch
	Ist week	23	2-Feb-2023	Structure of packet switches
		24	4-Feb-2023	Datalink Layer:Error Detection and correction-Types of errors
	2nd week	25	7-Feb-2023	Error Detection
		26	8-Feb-2023	Error Correction
		27	9-Feb-2023	Datalink Control:Framing
		28	9-Feb-2023	Flow control and Error control
		29	9-Feb-2023	Protocols -Noise less channel:Simplest Protocol

August		30	14-Feb-2023	Stop and wait Protocol
	3rd Week	31	15-Feb-2023	Noisy channels:Stop and wait ARQ
		32	16-Feb-2023	Go back N ARQ-sliding window
		33	16-Feb-2023	sliding window
	4thWeek	34	21-Feb-2023	Go back N ARQ Vs Stop and wait ARQ
		35	22-Feb-2023	HDLC
		36	23-Feb-2023	HDLC-Frames
		37	23-Feb-2023	HDLC-Control Field
		38	18-Feb-2023	Point to Point Protocol
	4thWeek	39	19-Feb-2023	Framing
		40	20-Feb-2023	Transition phases
		41	21-Feb-2023	Multiplexing
		42	22-Feb-2023	The Password Authentication protocol(PAP)
		43	23-Feb-2023	Multilink PPP
		44	28-Feb-2023	Revision
September	1st Week	45	1-Mar-2023	**Unit -3:** Multiple Access:Random Access-ALOHA
		46	2-Mar-2023	Slotted ALOHA
		47	2-Mar-2023	CSMA
		48	4-Mar-2023	CSMA/CD,Flow of CSMA/CD
	2nd week	49	7-Mar-2023	CSMA/CA
		50	8-Mar-2023	CSMA/CA
		51	9-Mar-2023	Controlled Access-Reservation
		52	9-Mar-2023	Polling,Token Passing
		53	14-Mar-2023	Channelization-FDMA,TDMA
		54	15-Mar-2023	CDMA
	3rd Week	55	16-Mar-2023	Wired LANs:IEEE Standards
		56	16-Mar-2023	Standard Ethernet
		57	21-Mar-2023	Fast Ethernet
		58	23-Mar-2023	GigabitEthernet
		59	23-Mar-2023	Wireless :IEEE 802.11
		60	16-Mar-2023	IEEE 802.11
	1st Week	61	28-Mar-2023	Blue Tooth:IEEE 802.16
		62	29-Mar-2023	Bluetooth layers,L2CAP
		63	4-Apr-2023	Revision
		64	5-Apr-2023	**Unit-4:Network Layer -Design Issues**
	1st Week	65	6-Apr-2023	Routing Algorithms-The Optimality Principle
		66	6-Apr-2023	Shortest Path routing
		67	11-Apr-2023	Routing Algorithms-The Optimality Principle Shortest Path routing

October	2nd Week	68	12-Apr-2023	Flooding
		69	13-Apr-2023	Distance Vector Routing,Link state
		70	13-Apr-2023	Hierachical,Broadcast,Multicast routing
		71	12-Apr-2023	Congestion Control Algorithms
		72	18-Apr-2023	Congestion Control Algorithms
	3rd week	73	19-Apr-2023	IPV4
		74	20-Apr-2023	IPV4
		75	20-Apr-2023	IPV6
		76	17-Apr-2023	IPV6
		77	18-Apr-2023	Revision
		78	18-Apr-2023	**Unit-5:** User Datadram Protocol**(**UDP)
	3rd week	79	18-Apr-2023	User Datadram Protocol(UDP)
		80	19-Apr-2023	Transmission Control Protocol(TCP)
		81	19-Apr-2023	Transmission Control Protocol(TCP)
		82	19-Apr-2023	Asynchronous Transfer Mode(ATM)
		83	21-Apr-2023	Cryptography-Symmetric Key
November	4nd Week	84	21-Apr-2023	ASymmetric Key Cryptography
		85	22-Apr-2023	Network Security-Security services
		86	22-Apr-2023	Message Confidentiality
	5th week	87	22-Apr-2023	Message Integrity
		88	23-Apr-2023	Digital Signatures
		89	23-Apr-2023	Digital Signatures
		90	23-Apr-2023	Previous University Question Paper discussion

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
Academic Year: 2022-2023			IVB.Tech II SEM
Subject: DIGITAL VLSI TESTING		SECTION-A,B,C Staff: Y. BHANU PRIYA	
Session	Unit	Date	Topic
1	I	12/26/2022	Importance of Testing
2	I	12/27/2022	Challenges of Testing
3	I	12/28/2022	Levels of abstraction
4	I	1/2/2023	Fault Models
5	I	1/3/2023	Advanced issues
6	I	1/4/2023	Design for Testability
7	I	1/9/2023	Introduction
8	I	1/10/2023	Testability Analysis
9	I	1/11/2023	DFT Basics
10	I	1/16/2023	Scan cell design
11	I	1/17/2023	Scan Architecture
12	I	1/18/2023	Scan design rules
13	I	1/23/2023	Scan design flow Fault Simulation
14	I	1/24/2023	Introduction
15	I	1/24/2023	Simulation models
16	II	1/25/2023	introduction Fault Simulation
17	II	1/30/2023	Logic simulation
18	II	1/31/2023	Fault simulation
19	II	2/1/2023	Test Generation
20	II	2/6/2023	Introduction to Test Generation
21	II	2/7/2023	Exhaustive testing
22	II	2/8/2023	Boolean difference
23	II	1/13/2023	Basic ATPG algorithms
24	II	2/14/2023	ATPG for non-stuck-at faults
25	II	2/15/2023	other issues in test generation
26	III	2/20/2023	Built-In-Self-Test
27	III	2/21/2023	Introduction to Built-In-Self-Test
28	III	2/22/2023	BIST design rules
29	III	2/27/2023	Test pattern generation
30	III	2/28/2023	Output response analysis
31	III	3/1/2023	Logic BIST architectures
32	IV	3/6/2023	Test Compression
33	IV	3/7/2023	Introduction to Test Compression
34	IV	3/8/2023	Stimulus compression
35	IV	3/13/2023	Response compression

36	V	3/14/2023	Memory Testing
37	V	3/15/2023	Introduction to Memory Testing
38	V	3/20/2023	RAM fault models
39	V	3/21/2023	RAM test
40	V	3/22/2023	Memory BIST Power
41	V	3/27/2023	Thermal Aware Test
42	V	3/28/2023	Importance of Thermal Aware Testing
43	V	3/29/2023	Power models
44	V	4/3/2023	Low power ATPG
45	V	4/4/2023	Power and Thermal Aware Test
46	V	4/5/2023	Low power BIST
50	V	4/10/2023	Thermal aware techniques
51		4/11/2023	Revision
52		4/12/2023	Revision
53		4/17/2023	Revision
54		4/18/2023	Revision
55		4/19/2023	Revision
56		4/24/2023	Revision
57		4/25/2023	Revision

G.Pullaiah College of Engineering & Technology::Kurnool			
Department of ECE			
Lesson Plan of SC(A2463) for AY 2022-2023			
IV B.Tech II Sem			
S.NO	Date	Topic	Units
1	12/26/2022	Orbital mechanics and launches	Units-1
2	12/26/2022	Introduction to satellite communications	Units-1
3	12/27/2022	Basic concepts of satellite communications	Units-1
4	12/28/2022	frequency allocations for satellite services	Units-1
5	1/2/2023	Orbital mechanics look angle determination	Units-1
6	1/2/2023	orbbital perturbations ,orbital determination	Units-1
7	1/2/2023	launches	Units-1
8	1/3/2023	launches vehicles	Units-1
9	1/4/2023	orbital effects in communication sustems performance	Units-1
10	1/9/2023	Satellite Subsystems	Units-2
11	1/10/2023	Attitude and orbital control system	Units-2
12	1/11/2023	Telemetry	Units-2
13	1/17/2023	tracking	Units-2
14	1/18/2023	command	Units-2
15	1/23/2023	monitoring	Units-2
16	1/23/2023	power systems	Units-2
17	1/24/2023	communication subsystems	Units-2
18	1/25/2023	Satellite antenna equipment reliablity	Units-2
19	1/30/2023	space qualification	Units-2
20	1/30/2023	Satellite link design multiple access	Units-3
21	1/31/2023	Basic transimission theory	Units-3
22	2/1/2023	system noise temperature	Units-2
23	2/6/2023	G/T ratio	Units-3
24	2/6/2023	design of down links	Units-3
25	2/7/2023	uplink design	Units-3
26	2/8/2023	design of satellite links for specified C/N	Units-3
27	2/13/2023	system design example	Units-3
28	2/13/2023	FDMA inter modulation	Units-3
29	2/14/2023	calculation of C/N	Units-3
30	2/15/2023	TDMA frame strcture	Units-3
31	2/20/2023	Satellite switched TDMA onboard processing	Units-3
32	2/20/2023	DAMA	Units-3
33	2/21/2023	CDMA	Units-3
34	2/22/2023	Spread spectrum tranmission and reception	Units-3
35	2/27/2023	Earth station technology	Units-4
36	2/27/2023	transmitters	Units-4

37	2/28/2023	Receivers	Units-4
38	3/1/2023	Antennas	Units-4
39	3/6/2023	tracking systems	Units-4
40	3/6/2023	terrestrial interface	Units-4
41	3/7/2023	primary power test methods	Units-4
42	3/14/2023	Satellite navigation and GNSS	Units-5
43	3/15/2023	Radio	Units-5
44	3/20/2023	Satellite navigation	Units-5
45	3/20/2023	GPS position location principles	Units-5
46	3/21/2023	GPS receivers	Units-5
47	3/27/2023	Gps codes	Units-5
48	3/28/2023	satellite signal acquisition	Units-5
49	3/29/2023	GPS navigation message	Units-5
50	4/3/2023	GPS signal levels	Units-5
51	4/3/2023	GPS receiver operation	Units-5
52	4/4/2023	GPS C/A code accuracy	Units-5
53	4/10/2023	differential GPS	Units-5
54	4/10/2023	NaviC	Units-5
55	4/11/2023	REVISION	Units-1
56	4/12/2023	REVISION	Units-1
57	4/17/2023	REVISION	Units-2
58	4/17/2023	REVISION	Units-2
59	4/18/2023	REVISION	Units-3
60	4/24/2023	REVISION	Units-3
61	4/24/2023	REVISION	Units-4
62	4/25/2023	REVISION	Units-5
63	4/26/2023	REVISION	Units-5

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(Autonomous)::KURNOOL

Department of Civil Engineering

Class: II YR-II SEM

Name of the Subject: HYDRAULICS AND HYDRAULIC MACHINERY			
Name of the M	**Periods**	**Date**	**Topics to be covered as per syllabus**
	1	3/9/2023	Introduction to Subject
			UNIT-I
	2	3/10/2023	Introduction
	3	3/11/2023	Classification of flows&Types of channels
	4	3/15/2023	Geometric Parameters of Open Channel
	5	3/16/2023	Chezy eqation & Problem
MAR	6	3/20/2023	Problems on Chezy
	7	3/21/2023	Most Economical Section On Rectangular Channel
	8	3/24/2023	Problems
	9	3/27/2023	Most Economical Section on Trapeziodal Channel
	10	3/29/2023	Problems
	11	3/31/2023	Triangular Channel-Problems
	12	4/3/2023	Circular Channels on Max Velocity
	13	4/6/2023	Circular Channels on Max Discharge
	14	4/12/2023	Problems
			UNIT-II
	15	4/19/2023	Introduction ,Specific Energy curve
	16	4/20/2023	Critical Depth ,Min Specfic energy
	17	4/21/2023	Problems
APR	18	4/24/2023	Critical flow and Critical velocity in a rectangular channel
	19	4/26/2023	Traingular Channel - Problems
	20	4/27/2023	Charcterstics of Slopes
	21	4/28/2023	Surface Profiles; Back water Curves and Draw down curves;
	22	5/1/2023	Dyanmic Equation Of GVF
	23	5/3/2024	Dyanmic Equation Of GVF
	24	5/4/2023	Problems
	25	5/5/2023	Hyduralic Jump & Problems
	26	5/8/2023	Hyduralic Jump & Problems
	27	5/10/2023	Length of Hyduralic Jump & Problems
	28	5/11/2023	Applications of Hyduralic jump
	29	5/12/2023	Location and Types of Hyduralic Jump
MAY			**Unit-III**
	30	5/22/2023	Introduction,Hydrodynamic force of jets on stationary
	31	5/24/2023	Problems
	32	5/25/2023	Hydrodynamic force of jets on Moving & Problem
	33	5/26/2023	Hydrodynamic force of jets on Inclined & Problems
	34	5/29/2023	velocity triangles at inlet and outlet
	35	5/31/2023	expressions for work done and efficiency-angular momentum principle

	36	6/1/2023	Torque and head transferred in roto-dynamic machines
		UNIT-IV	
	37	6/2/2023	Pelton wheel parts, velocity triangles, work done and efficiency, working principles,
	38	6/5/2023	Francis turbine, Kaplan turbine– head and efficiencies of hydraulic turbines
	39	6/7/2023	radial flow reaction turbines, discharge
	40	6/8/2023	Speed ratio, flow ratio, draft tube- types, efficiency,
JUNE	41	6/9/2023	introduction to cavitations in turbines, specific speed
		UNIT-V	
	42	6/12/2023	Components, working of a centrifugal pump
	43	6/14/2023	Problems
	44	6/15/2023	work done by impeller,head and efficiencies & Problems
	45	6/16/2023	Minimum starting speed,Problems
	46	6/19/2023	velocity triangles and related problems
	47	6/21/2023	velocity triangles and related problems
	48	6/22/2023	multistage centrifugal pumps in series and parallel
	49	6/23/2023	specific speed – problems

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(Autonomous)::KURNOOL

Department of H&S

Class: II YR-II SEM (CIVIL)

Subject: PROBABILITY &STATISTICS		**Name of the Faculty: N JANAKI**	
S.NO	**DATE**	**DATE**	**TOPIC COVERED**
1		3/6/2023	MEASURES OF CENTRALTENDENCY
2		3/8/2023	PROBLEMS ON MEAN & MEDIAN OF GROUPED AND UNGROUPED DATA
3		3/9/2023	PROBLEMS ON MODE OF GROUPED & UNGROUPED DATA
4		3/13/2023	MEASURES OF DISPERSION(VARIABILITY):RANGE, MEAN DEVIATION ABOUT THE MEAN 0R MEDIAN 0R MODE
5	UNIT-I	3/15/2023	STANDARD DEVIATION
6		3/16/2023	CORRELATION, CORRELATION COEFFICIENT
7		3/20/2023	RANK CORRELATION COEFFICIENT
8		3/23/2023	PRINCIPLE OF LEAST SQUARES,METHOD OF LEAST SQUARES
9		3/27/2023	REGRESSION LINES
10		3/29/2023	REGRESSION COEFFICIENTS AND THEIR PROPERTIES,SKEWNESS,KURTOSIS
11		4/3/2023	PROBABILITY:BASIC CONCEPT OF PROBABILITY & AXIOMS OF PROBABILTY
12		4/6/2023	ADDITION &MULTIPLICATION LAW OF PROBABILITY
13		4/10/2023	CONDITIONAL PROBABILITY WITH PROBLEMS
14		4/12/2023	BAYES THEOREM
15	UNIT-II	4/13/2023	PROBLEMS ON BAYE'S THEOREM
16		4/17/2023	PROBLEMS ON BAYE'S THEOREM
17		4/19/2023	DISCREATE &CONTINUOUS RANDAM VARIABLES
18		4/20/2023	PROBLEMS ON DISCRETE RANDOM VARIABLES
19		4/24/2023	PROBABILITY DENSITY FUNCTIONS AND PROPERTIES
20		4/26/2023	MATHEMATICAL EXPECTATIONS
21		4/27/2023	PROBLEMS
22		5/8/2023	PROBABILITY DISTRIBUTIONS :BINOMIAL DISTRIBUTION WITH PROBLEMS
23		5/10/2023	POISSON DISTRIBUTION WITH PROBLEMS
24	UNIT-III	5/11/2023	POISSON APPROXIMATION TO THE BINOMIAL DISTRIBUTION
25		5/15/2023	NORMAL DISTRIBUTION WITH PROBLEMS
26		5/17/2023	PROBLEMS ON NORMAL DISTRIBUTION
27		5/18/2023	PROBLEMS ON NORMAL DISTRIBUTION
28		5/22/2023	ESTIMATION PARAMETERS
29		5/24/2023	STATISTICS, SAMPLING DISTRIBUTION
30		5/25/2023	POINT ESTIMSTION,FORMULATION OF NULL HYPOTHESIS AND ALTERNATIVE HYPOTHESIS
31		5/29/2023	THE CRITICAL AND ACCEPTANCE REGIONS,LEVEL OF SIGNIFICANCE AND TWO TYPES OF ERRORS
32	UNIT-IV	5/31/2023	TEST FOR SINGLE MEAN
33		6/1/2023	TEST FOR DIFFERENCE OF MEANS
34		6/5/2023	TEST FOR SINGLE PROPORTION
35		6/7/2023	TEST FOR DIFFERENCE OF PROPORTIONS
36		6/8/2023	CONFIDENCE INTERVAL FOR PARAMETERS IN ONE SAMPLE AND TWO SAMPLE PROBLEMS
37		6/12/2023	SMALL SAMPLE TESTS: STUDENT t-DISTRIBUTION
38		6/14/2023	TEST FOR SINGLE MEAN AND TEST FOR DOUBLE MEANS
39	UNIT-V	6/15/2023	PAIRED t-TEST
40		6/19/2023	TEST OF EQUALITY OF VARIANCES(F-TEST)
41		6/21/2023	CHI-SQUARE TEST FOR GOODNESS OF FIT WITH PROBLEMS
42		6/22/2023	CHI-SQUARE TEST FOR INDEPENDENCE OF ATTRIBUTES

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(Autonomous)::KURNOOL

Department of Civil Engineering

Name of the Subject: Basics of Remote sensing & GIS			
Name of the Month	**Periods**	**Date**	**Topics to be covered as per syllabus**
	1	3/9/2023	Introduction to Subject
			UNIT-I
	2	3/11/2023	Principles& types of aerial photograph
	3	3/13/2023	geometry of vertical aerial photograph
	4	3/14/2023	Scale & Height measurement on single vertical aerial photograph,
MAR	5	3/18/2023	Scales
	6	3/20/2023	Height measurement based on relief displacement
	7	3/21/2023	Fundamentals of stereoscopy
	8	3/25/2023	Fiducially points, parallax measurement using fiducially line.
	9	3/27/2023	Types of Photgraph
	10	3/28/2023	Problems on relief displacement
	11	4/1/2023	Problems on Scales
	12	4/3/2023	Revision
			UNIT-II
	14	4/4/2023	REMOTE SENSING :Basic concepts and foundation of remote sensing
	15	4/10/2023	elements involved in remote sensing
	16	4/11/2023	electromagnetic spectrum,Energy resources
APR	17	4/15/2023	remote sensing terminology and units
	18	4/17/2023	Energy interactions with earth surface features and atmosphere
	19	4/18/2023	interactions with earth surface features and atmosphere
	20	4/25/2023	sensors and satellite visual,digital data analysis
	21	5/1/2023	interpretation techniques,converging evidence
	22	5/2/2024	sensors and satellite visual,interpretation techniques
			Unit-III
	23	5/6/2023	GEOGRAPHIC INFORMATION SYSTEM:Introduction
	24	5/8/2023	GIS definition and terminology,
	25	5/9/2023	GIS categories
	26	5/13/2023	components of GIS
	27	5/15/2023	fundamental operations of GIS
MAY	28	5/16/2023	A theoretical framework for GIS
	29	5/20/2023	TYPES OF DATA REPRESENTATION:Data collection and input overview,data input and output.
	30	5/22/2023	Keyboard entry and coordinate geometry procedure
	31	5/23/2023	manual digitizing and scanning, Raster GIS,Vector GIS – File management,

	32	5/27/2023	Spatial data – Layer based GIS, Feature based GIS mapping.
MAY/JUNE			**UNIT-IV**
	33	5/29/2023	GIS SPATIAL ANALYSIS
	34	5/30/2023	Computational Analysis Methods(CAM)
	35	6/2/2023	Visual Analysis Methods (VAM),
	36	6/3/2023	Data storage-vector data storage, attribute data storage
	37	6/5/2023	overview of the data manipulation and analysis.
	38	6/6/2023	integrated analysis of the spatial and attribute data.
	39	6/10/2023	VAM VIDEOS
	40	6/12/2023	Data Analysis
			UNIT-V
	41	6/13/2023	WATER RESOURCES APPLICATIONS:Land use/Land cover in water resources,
	42	6/17/2023	Surface water mapping and inventory
	43	6/19/2023	Rainfall – Runoffrelations and runoff potential indices of watersheds
	44	6/20/2023	Flood and Drought impact assessment and monitoring,Watershed management for sustainable development and Watershed characteristics
	45	6/21/2023	Reservoir sedimentation, Fluvial Geomorphology
	46	6/21/2023	water resources management and monitoring,Ground Water Targeting
	47	6/22/2023	Identification of sites for artificial Recharge structures
	48	6/23/2023	Drainage Morphometry, Inland water quality survey and management, water depth estimation and bathymetry

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Civil Engineering

Name of the Subject: STRUCTURAL ANALYSIS			
Month	**Periods**	**Date**	**Topics to be covered as per syllabus**
March	1	3/7/2023	Bridge course
	2	3/8/2023	Bridge course
	3	3/9/2023	**Unit-1 Introduction**
	4	3/14/2023	Energy theorems
	5	3/15/2023	Linear elastic system
	6	3/16/2023	Strain energy
	7	3/17/2023	Due to load
	8	3/21/2023	Due to bending
	9	3/22/2023	Due to shear
	10	3/23/2023	Castiglianos theorem
	11	3/24/2023	Static and kinematic indeterminancy
	12	3/28/2023	Solution of trusses
	13	3/29/2023	Problems
	14	3/31/2023	Problems
	15	4/4/2023	Problems
	16	4/5/2023	Problems
April	17	4/6/2023	**Unit-2 Fixed beams**
	18	4/11/2023	Introduction
	19	4/12/2023	Static and kinematic indeterminancy
	20	4/13/2023	Fixed beam with point load
	21	4/14/2023	Fixed beam with point loads
	22	4/18/2023	Fixed beam with udl
	23	4/19/2023	Fixed beam with point load
	24	4/20/2023	Problems
	25	4/21/2023	Problems
	26	4/25/2023	Problems
	27	4/26/2023	Problems
	28	4/27/2023	Problems
	29	4/28/2023	Problems
	30	5/9/2023	**Unit-3 Continuous beams**
	31	5/10/2023	Three moment equation
	32	5/11/2023	Problems
	33	5/12/2023	Problems
	34	5/16/2023	Problems
	35	5/17/2023	Problems
	36	5/18/2023	Problems
	37	5/19/2023	Unit -4 Slope deflection method
	38	5/23/2023	Derivation

May	39	5/24/2023	Problems
	40	5/25/2023	Problems
	41	5/26/2023	Problems
	42	5/30/2023	Problems
	43	5/31/2023	Problems
	44	6/1/2023	Problems
	45	6/2/2023	Problems
	46	6/6/2023	**Unit -5 Moment distribution method**
	47	6/7/2023	Carry over moment
	48	6/8/2023	Stiffness
June	49	6/9/2023	Problems
	50	6/13/2023	Problems
	51	6/14/2023	Problems
	52	6/15/2023	Problems
	53	6/16/2023	Problems
	54	6/20/2023	Problems
	55	6/21/2023	Problems
	56	6/22/2023	Problems

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(Autonomous)::KURNOOL

Department of Civil Engineering

Name of the Subject: Strength of Materials - II			
Name of the M	**Periods**	**Date**	**Topics to be covered as per syllabus**
	1	3/9/2023	Introduction to Subject
			UNIT-I
	2	3/10/2023	Bridge course - Stresses & types
	3	3/11/2023	Support reactions,Simple stresses
	4	3/13/2023	Compound stresses - Pn & Pt
	5	3/15/2023	Bi-axial stresses on inclined plane
MAR	6	3/17/2023	Normal stresses accompanied by shear stress
	7	3/18/2023	Mohrs circle,Problems
	8	3/20/2023	solutions
	9	3/22/2023	Theories of failure - Max principal stress & strain theory
	10	3/24/2023	Max.strain energy theory
	11	3/27/2023	Max.shear strain energy theory
	12	4/3/2023	Problems
	13	4/5/2023	Problems
			UNIT-II
	14	4/7/2023	Seamless cylindrical shells
	15	4/10/2023	Derivation of longitudinal and circumferential stress
APR	16	4/12/2023	Problems
	17	4/17/2023	Volumetric strain,Problems
	18	4/24/2023	Lame's equation - derivation
	19	4/26/2023	Problems
	20	4/28/2023	compound cylinders
	21	5/1/2023	Difference in radii
	22	5/3/2024	thick spherical shells,Problems
			Unit-III
	23	5/6/2023	Theory of pure torsion
	24	5/7/2023	Derivation,assumptions
	25	5/8/2023	Problems,Polar modulus
MAY	26	5/10/2023	Power transmitted
	27	5/12/2023	Strength of shaft
	28	5/13/2023	Problems
	29	5/15/2023	Springs- Introductions-types
	30	5/17/2023	stiffness of springs,problems
	31	5/22/2023	quarter and helical spring
	32	5/24/2023	Springs in series and parallel
			UNIT-IV
	33	5/26/2023	Introduction - Types of columns
	34	5/29/2023	Short, medium and long columns
	35	6/2/2023	Axially loaded compression member
	36	6/3/2023	Eulers formulae - Derivations
	37	6/5/2023	Eulers formulae - Derivations
	38	6/7/2023	Slenderness ratio
	39	6/9/2023	Rankines formula,Secant formula

	40	6/10/2023	Straight line formula,Perrys formula
		UNIT-V	
	41	6/12/2023	Introduction
	42	6/14/2023	Principal centroidal axis
	43	6/16/2023	Graphical method
	44	6/17/2023	MI referred to any axis,Location of NA
	45	6/19/2023	Deflection of beams,Problems
	46	6/21/2023	Beams curved in plan - Introduction
	47	6/22/2023	Circular beams
	48	6/23/2023	Semi circular beams simply supported on 3 equally spaced supports

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Civil Engineering

Grade of the Subject: Theory & Problematic

Name of the Subject:Water Resources Engineering - I

Name of the Month	periods	Date	Topics to be covered as per syllabus
		Unit - I	
Mar	1	3/7/2023	**INTRODUCTION TO HYDROLOGY**
	2	3/9/2023	Engineering Hydrology & its applications; Hydrologic Cycle
	3	3/10/2023	Precipitation-Types & Forms,types of rain gauges
	4	3/14/2023	Computations of Average Rainfall over a basin
	5	3/15/2023	Presentation & Interpretation of Rainfall data
	6	3/17/2023	**DESCRIPTIVE HYDROLOGY**
	7	3/18/2023	Estimation of Maximum rate of Run-off;
	8	3/20/2023	Separation of Base flow
	9	**Unit - II**	
	10	3/21/2023	Hydrograph
	11	3/21/2023	Unit Hydrograph – Construction
	12	3/25/2023	Application of Unit Hydrograph to the construction of a flood hydrograph resulting from rainfall of unit duration
	13	3/28/2023	Application of Unit Hydrograph to the construction of a flood hydrograph resulting from rainfall of unit duration
	14	3/29/2023	S-Hydrograph
	15		**GROUND WATER**
MAR/APR	16	3/30/2023	Introduction; Aquifer
	17	4/4/2023	Aquiclude; Aquifuge
	18	4/8/2023	Types of Aquifers
	19	4/11/2023	Types of Aquifers
	20	4/12/2023	Storage Coefficient
	21	4/15/2023	Coefficient of Permeability & Transmissibility
	22	4/18/2023	Well Hydraulics – Darcy's law
	23	4/19/2023	Recuperation Test
	24	4/20/2023	Problems
	25	4/21/2023	Previous Questions Practice
MAY	26	**Unit - III**	
	27		**IRRIGATION:**
	28	5/20/2023	Introduction; Necessity & Importance of Irrigation;
	29	5/23/2023	Advantages & Ill effects of Irrigation;
	30	5/24/2023	Types of Irrigation;
	31	5/27/2023	Methods of precipitation of Irrigation water;
	32	5/30/2023	**WATER REQUIREMENTS OF CROPS:**Types of Soils, Indian agricultural soils;
	33	3/31/2023	Preparation of land for Irrigation;

	34	6/3/2023	Soil Fertility; Soil-water-plant relationship;Gross Command Area;Culturable Command area;Culturable cultivated & uncultivated area;Kor depth & Kor Period ;Crop Seasons & Crop Rotation
MAY/JUNE	35	**Unit - IV**	
	36	6/6/2023	**CHANNELS-SILT THEORIES :**
	37	6/7/2023	classification ;canal alignment
	38	6/10/2023	Inundation canals;
	39	6/13/2023	Drawbacks in Kennedy's theory;
	40	6/4/2023	Lacey's regime theory- Lacey's regime theory applicable to Channel design; Defects in Lacey's theory;
	41		**WATER LOGGING & CANAL LINING :**
	42	6/17/2023	Causes of Water logging
	43	6/20/2023	Remedial Measures; Saline & Alkaline soils & their reclamation;
	44	6/21/2023	Losses in Canal;
	45	**Unit - V**	
	46	6/24/2023	**DIVERSION HEADWORKS:CANAL OUTLETS**
	47	6/24/2023	Types of diversion head works;
	48	6/24/2023	Diversion & Storage Headwork's;

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG(Autonomous)::KURNOOL			
Department of Civil Engineering			
Grade of the Subject: Theory & Problemetic CLASS : III YR - II SEM			
Name of the Subject:CONCRETE TECHNOLOGY		Name of the Faculty: Dr S VINAY BABU	
Name of the Month	**Periods**	**Date**	**Topics to be covered as per syllabus**
DEC	1	12/27/2022	Bridge course
JAN	2	1/4/2023	Bridge course
		UNIT-I	
	3	1/5/2023	Cement-chemical composition
	4	1/7/2023	Hydration process-Bogue's Compound
	5	1/10/2023	Tests on properties of cement
	6	1/11/2023	Types of cement - I.S. Specifications
	7	1/12/2023	classification of aggregate
	8	1/17/2023	tests on properties of aggregates
	9	1/18/2023	characteristics of aggregate - I.S. Specifications
	10	1/19/2023	Water-quality of water
	11	1/21/2023	classification of chemical admixtures – properties and limitations
	12	1/24/2023	classification of mineral admixtures – properties and limitations
	13	1/25/2023	I.S. Specifications. Chemical composition
	14	1/28/2023	Hydration of cement- Physical properties
		UNIT-II	
	15	1/31/2023	Mixing of concrete-workability factors influencing workability
FEB	16	2/1/2023	Measurement of workability for conventional concrete (Slump Cone, Compaction Factor and
	17	2/2/2023	Vee-Bee test
	18	2/4/2023	SCC (V-Funnel, L-Box)
	19	2/7/2023	SSC(U- Box, Slump Flow and J–Ring)
	20	2/8/2023	Water/Cement Ratio (Abram's Law)-
	21	2/9/2023	Gel Space Ratio-tests on hardened concrete
	22	2/11/2023	Destructive Tests (Compression, Split Tensile and Flexural)
	23	2/14/2023	Semi Destructive Tests (Core Cutter and Pull out test)
	24	2/15/2023	Non-Destructive Tests Rebound Hammer-UPV -
	25	2/16/2023	Radiological methods
		Unit-III	
	26	2/28/2023	Special concretes: Light Weight Concretes
MAR	27	3/1/2023	Light Weight Aggregate Concrete
	28	3/2/2023	Cellular Concrete
	29	3/4/2023	Cellular Concrete
	30	3/7/2023	No Fines Concrete
	31	3/9/2023	High Density Concrete
	32	3/14/2023	Fiber Reinforced Concrete
	33	3/15/2023	Polymer Concrete
		Unit-IV	
	34	3/16/2023	Self Compacting Concrete
	35	3/18/2023	Elasticity, creep & shrinkage
	36	3/21/2023	methods of curing-effects of improper curing-self curing
	37	3/23/2023	Modulus of Elasticity-Poisson's
	38	3/25/2023	Ratio-Dynamic Modulus of Elasticity

	39	3/28/2023	Shrinkage and various types
	40	3/29/2023	Factors Affecting Shrinkage
	41	4/1/2023	Moisture Movement
		Unit-V	
	42	4/4/2023	Creep of Concrete-Factors Influencing Creep
	43	4/6/2023	Factors in the choice of mix proportions
	44	4/8/2023	Durability of concrete
	45	4/11/2023	Proportioning of concrete mix by normal
APR	46	4/12/2023	pump able concretes by various methods of mix design
	47	4/13/2023	Road Note. No. 4
	48	4/15/2023	IS Code Method
	49	4/18/2023	IS Code Method
	50	4/19/2023	ACI method
	51	4/20/2023	ACI method

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY(Autonomous)::KURNOOL			
Department of Civil Engineering			
Grade of the Subject: Problematic			AY : 2022-23 even semester
the Subject: DESIGN OF STEEL STRU			Name of the Faculty: Dr SYED AFZAL BASHA
Month	**Periods**	**Date**	**Topics to be covered as per syllabus**
Dec/Jan	1	12/26/2022	Bridge course
	2	12/29/2022	Bridge course
	3	12/30/2022	Bridge course
	4	12/31/2022	**Unit-1 Connections**
	5	1/2/2023	Introduction
	6	1/3/2023	Bolted connections
	7	1/5/2023	Welded connections
	8	1/6/2023	Advantages
	9	1/7/2023	Disadvantages
	10	1/9/2023	Butt weld
	11	1/12/2023	Fillet weld
	12	1/19/2023	Stresses in welds
	13	1/20/2023	Problems
	14	1/21/2023	Problems
	15	1/23/2023	**Unit-2 Tension members**
	16	1/27/2023	Problems
Feb	17	1/28/2023	Problems
	18	1/30/2023	Problems
	19	2/2/2023	Problems
	20	2/3/2023	Compression members
	21	2/4/2023	Problems
	22	2/6/2023	Problems
	23	2/9/2023	Problems
	24	2/10/2023	Problems
	25	2/11/2023	Problems
	26	2/13/2023	**Unit-3 Beams**
	27	2/27/2023	Allowable stresses
	28	3/2/2023	Simple beams
	29	3/3/2023	Compound beams
	30	3/4/2023	Design problem
	31	3/6/2023	Design problem
	32	3/9/2023	Design problem
Mar	33	3/10/2023	Design problem
	34	3/11/2023	Design problem
	35	3/16/2023	Laterally unsupported beams
	36	3/17/2023	Design checks
	37	3/18/2023	**Unit-4 Columns**
	38	3/20/2023	Built up columns
	39	3/23/2023	Column bases
	40	3/24/2023	Guswtted base
	41	3/25/2023	Ecentrical columns
	42	3/27/2023	Problems
	43	3/31/2023	Problems
	44	4/1/2023	Problems
	45	4/3/2023	Problems
	46	4/5/2023	**Unit -5**

	47	4/8/2023	Plate girder
	48	4/9/2023	Design problem
April	49	4/10/2023	Design problem
	50	4/13/2023	Bending check
	51	4/14/2023	Shear check
	52	4/18/2023	Connections
	53	4/21/2023	Revision
	54	4/22/2023	Revision
	55	4/24/2023	Revision
	56	4/27/2023	Revision

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG(Autonomous)::KURNOOL			
Department of Civil Engineering			
Grade of the Subject: Theory& Problemetic CLASS: III YR -II SEM			
Name of the Subject:ESTIMATION,COSTING AND VALUATION (Skilled Course)			
Name of the Faculty: C G MOHAN BABU			
Name of the Month	**Periods**	**Date**	**Topics to be covered as per syllabus**
DEC	1	12/26/2022	Bridge course
	2	12/27/2022	Bridge course
		UNIT-I	
	3	12/30/2022	Introduction to buildings
JAN	4	1/2/2023	General items of in buildings
	5	1/3/2023	General items of in buildings
	6	1/6/2023	Principals of estimates and abstract estimates
	7	1/9/2023	Principals of estimates and abstract estimates
	8	1/10/2023	General specifications of materials
	9	1/17/2023	General specifications of materials
	10	1/20/2023	General specifications of materials
		UNIT-II	
	11	1/23/2023	Detailed Estimate of Buildings: Introduction
	12	1/24/2023	Methods of Estimation
	13	1/27/2023	Wall Method
	14	1/30/2023	Problems on Single Room
FEB	15	1/31/2023	Problems on Double Room
	16	2/3/2023	Problems on Double Room
	17	2/6/2023	Problems on Multi Rooms Building
	18	2/7/2023	Problems on Multi Rooms Building
	19	2/10/2023	Centre Line Method
	20	2/13/2023	Problems on Single Room ,
	21	2/14/2023	Problems on Double Room
	22	2/17/2023	Problems on Multi Rooms Building
	23	2/27/2023	Problems on Multi Rooms Building
		Unit-III	
MAR	24	2/28/2023	Earth Work Estimation Introduction and Methods
	25	3/3/2023	Problems
	26	3/6/2023	Problems
	27	3/7/2023	Problems
	28	3/10/2023	Problems
	29	3/13/2023	Reinforcement Bar Bending on Slab
	30	3/14/2023	Reinforcement Bar Bending on Beam
	31	3/17/2023	Reinforcement Bar Bending on Column with footing
	32	3/20/2023	Reinforcement Bar Bending on Column with footing
		Unit-IV	
	33	3/21/2023	Contracter and its Types
	34	3/24/2023	Types and Contract Doucmnet
	35	3/27/2023	Tenders Classification
	36	3/28/2023	Requirement of Tendering
	37	4/3/2023	Requirement of Tendering
		Unit-V	

APR	38	4/4/2023	Estimation of Quantities for Rates
	39	4/10/2023	Estimation of Quantities for Rates Example Problems
	40	4/11/2023	Estimation of Quantities for Rates
	41	4/17/2023	Valuation of Buildings
	42	4/18/2023	Valuation of Buildings Example Problems
	43	4/21/2023	Valuation of Buildings Example Problems

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL			
Department of Civil Engineering			
Grade of the Subject: Theory			
Name of the Subject:GROUND IMPROVEMENT TECHNIQUES			
Name of the Month	periods	Date	Topics to be covered as per JNTUA syllabus
	1	12/26/2022	Summary of Geotechnical Engineering
	2	**12/27/2022**	Summary of Geotechnical Engineering
	3	12/28/2022	Summary of Geotechnical Engineering
	4	1/2/2023	**UNIT-I Introduction of dewatering, single and multi stage well points**
	5	1/3/2023	single and multi stage well points
DEC/JAN	6	1/7/2023	sumps and interceptor ditches
	7	1/9/2023	sumps and interceptor ditches
	8	1/10/2023	Vacuum well points,
	9	1/17/2023	horizontal wells
	10	1/21/2023	Foundation drains and blanket drains
	11	1/23/2023	Introduction of grouting and objectives of grouting
	12	1/24/2023	Properties of grouting
	13	1/28/2023	Methods of grouting
	14	1/30/2023	Ascending, descending and stage grouting
	15	1/31/2023	Hydraulic fracturing in soils, rocks and post grout test
	16	2/4/1943	Rocks and post grout test
Jan/Feb	17	2/6/2023	**UNIT-II** In-situ densification methods in granular soils
	18	2/7/2023	In-situ densification methods in granular soils
	19	2/11/2023	methods in granular soils
	20	2/13/2023	Vibration at depth, impact at depth
	21	2/14/2023	In-situ densification methods in cohesive soils
	22	09/01/2022	PREVIOUS QUESTION PAPERS
	23	2/27/2023	**UNIT – III** Methods of stabilization-mechanical
	24	2/28/2023	Methods of stabilization-mechanical
	25	3/4/2023	Methods of stabilization-mechanical
	26	3/6/2023	sodium silicate and gypsum
	27	3/7/2023	sodium silicate and gypsum
	28	3/11/2023	sodium silicate and gypsum
	29	3/14/2023	**UNIT – IV Principles**
	30	3/18/2023	Components of reinforced earth
	31	3/20/2023	Components of reinforced earth
	32	3/27/2023	Components of reinforced earth
	33	3/28/2023	factors governing design of reinforced earth walls
	34	4/1/2023	design principles of reinforced earth walls
	35	4/4/2023	Geotextiles-Types, Functions and applications
	36	4/8/2023	geogrids and geomembranes
	37	4/10/2023	functions and applications.
MAR/APR	38	4/15/2023	**UNIT - V -Problems of expansive soils**

	39	4/17/2023	tests for identification
	40	4/18/2023	methods of determination of swell pressure.
	41	3/24/2023	PREVIOUS QUESTION PAPERS
	42	4/25/2023	PREVIOUS QUESTION PAPERS
	43	4/29/2023	PREVIOUS QUESTION PAPERS

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL (AUTONOMOUS)		
DEPARTMENT OF CIVIL ENGINEERING		
III YEAR II SEM		
Subject: INTELECTUAL PROPERTY RIGHTS(A30082)		**Faculty : C THEJASWINI VE**
Session	Unit	Topic
1	1	**UNIT - 1 : Introduction to Intellectual Property**
2	1	Introduction
3	1	Types of Intellectual Property
4	1	International Organizations
5	1	Agencies and Treaties
6	1	Importance of Intellectual Property Rights
7	1	UNIT TEST ON UNIT 1
8	2	**UNIT - 2 : Trade Marks**
9	2	Purpose of Trade Marks
10	2	Function of Trade Marks
11	2	Acquisition of Trade Mark Rights
12	2	Protectable Matter
13	2	Selecting Trade Mark
14	2	Evaluating Trade Mark
15	2	Trade Mark Registration Processes
16	2	UNIT TEST ON UNIT 2
17	3	**UNIT - 3 : Law of Copy Rights**
18	3	Fundamental of Copy Right Law
19	3	Originality of material
20	3	Rights of Reproduction
		Rights to Perform the Work Publicly
21	3	Copy Right Ownership Issues
22	3	Copy Right Registration
23	3	Notice of Copy Right
24	3	International Copy Right Law
25	3	Law of Patents
26	3	Foundation of Patent Law
		I MID EXAMS FROM 20-2-2023 TO 25-2-2023
27	3	Foundation of Patent Law
28	3	Patent Searching Process
29	3	Ownership Rights and Transfer
30	3	UNIT TEST ON UNIT 3
31	4	**UNIT - 4 : Trade Secrets**
32	4	Trade Secrete Law
33	4	Determination of Trade Secrete Status
34	4	Liability for Misappropriations of Trade Secrets
35	4	Protection for Submission
36	4	Trade Secrete Litigation
37	4	Unfair Competition
38	4	Misappropriation Right of Publicity
39	4	False Advertising
40	4	UNIT TEST ON UNIT 4
41	5	**UNIT- 5 : New Developments of Intellectual Property**
42	5	New Developments in Trade Mark Law

43	5	Copy Right Law,
44	5	Patent Law
45	5	Intellectual Property Audits
46	5	International overview on Intellectual Property
47	5	International – Trade Mark Law
48	5	Copy Right Law
49	5	International Patent Law
50	5	International Development in Trade Secrets Law.

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL			
Department of Civil Engineering			
Grade of the Subject: Theory & Problematic			
Name of the Subject: Transportation Engineering			
Name of the Month	**periods**	**Date**	**Topics to be covered as per syllabus**
		Unit - I	
December	1	12/26/2023	History of transportation engineering
	2	12/27/2023	Modes of transportation engineering,Importance of roads in India
	3	12/29/2023	Highway development plans in India
January	4	1/2/2023	Necessity for road developments in India
	5	1/4/2023	Road Network patterens,Highway Alignments
	6	1/8/2023	Factors afftecing of Highway Alignments
	7	1/9/2023	Engineering Surveys and Drawing Reports
		Unit - II	
	10	1/12/2023	Importance of geometric design
	11	1/13/2023	design contols and criteria
	12	1/18/2023	highway cross section element
	13	1/20/2023	sight distance elemnts,Problems
	14	1/20/2023	stopping distance elements
	15	1/23/2023	Problems
	16	1/25/2023	overtaking sight distances,Problems
	17	1/27/2023	intermediate sight distances,Problems
	18	1/29/2023	design of horizontal alignements,Problems
February	19	2/1/2023	design of transition curves
	20	2/2/2023	Problems
	21	2/3/2023	design of vertical alignments
	22	2/5/2023	Problems,gradients
	23	2/8/2023	vertical alignmnets
March		**Unit - III**	
	24	2/9/2023	Basic parametyers of traffic engineering- volume, speed and density
	25	2/10/2023	definations and their inter relation
	26	2/12/2023	highway capacity and level of service concept
	27	2/16/2023	factors affecting capacity and level of services
	28	2/17/2023	traffic volume studies data collection and presentation
	29	2/17/2023	speed studies - data collection and prevention
	30	3/8/2023	parking studies and charecteristics
	31	3/9/2023	Road accident - causes and prevntive measures
	32	3/10/2023	accident data recordings- conditions,diagrams and collision diagrams
	33	3/12/2023	traffic regulation and management
	34	3/13/2023	road traffic signs,types and specifications road markings
	35	3/15/2023	need for road markings,types of road markings
	36	3/16/2023	specifications

	37	3/17/2023	designs of traffic signals,webstars method
	38	3/17/2023	saturation flow phasing and diagrams
		Unit - IV	
	39	3/22/2023	Intersection Design
	40	3/23/2023	Conflects at intersections
	41	3/24/2023	channalization objectives
	42	3/24/2023	traffic islands and design criteria
	43	3/26/2023	types of at grade inter sections
	44	3/27/2023	intersections, types of gradeseparation intersections
		Unit - V	
	45	3/29/2023	pavement design
	46	4/2/2023	types of pavements- difference between the flexible and rigid pavament
	47	4/6/2023	pavement components- subbase, base, wearing course
	48	4/7/2023	foundation of pavaments components
	49	4/9/2023	design factors - flexible pavements
	50	4/10/2023	design in GI method
April	51	4/12/2023	CBR method ap per IRC 37: 2002
	52	4/13/2023	CBR method ap per IRC 37: 2002
	53	4/16/2023	critical load positions
	54	4/17/2023	westerngards stress equations
	55	4/19/2023	computing of radius relative stiffness and equalient radius of resisting section
	56	4/20/2023	computing of radius relative stiffness and equalient radius of resisting section
	57	4/21/2023	stress in rigid pavements,Problems

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Electrical and Electronics Engineering

Lesson Plan (2022-23)

Name of the Subject: ELECTRICAL MACHINES-I(R20) Name of the Faculty: M.Venkateswarlu

Periods	UNIT	Topics to be covered
1		Constructional Features
2	I	D.C. Generators – Principle of Operation
3	I	Lap winding
4	I	wave winding
5	I	problems
6	I	E.M.F Equation– Numerical Problems
7	I	problems
8	I	Armature Reaction
9	I	Armature Reaction
10	I	Commutation – Methods of Improving Commutation
11	I	Types of generators
12	I	problems
13	I	Build-Up of E.M.F
14	I	Critical Field Resistance and Critical Speed
15	I	problems
16	I	Load Characteristics of Shunt, Series and Compound Generators
17	I	Load Characteristics of Shunt, Series and Compound Generators
18	I	Load Characteristics of Shunt, Series and Compound Generators
19	I	Problems
20	II	D.C Motors – Principle of Operation
21	II	Back E.M.F.–Torque Equation
22	II	Characteristics of Shunt, Series and Compound Motors- Applications.
23	II	Characteristics of Shunt, Series and Compound Motors- Applications.
24	II	Speed Control of D.C. Shunt and Series Motors
25	II	Principle and construction of Starters
26	II	Testing of DC Machines- Losses – Constant & Variable Losses – Calculation of
27	II	Methods of Testing – Direct, Indirect – Brake Test
28	II	Swinburne’s Test
29	II	problems
30	II	Hopkinson’s Test

31	II	problems
32	II	Fields's Test
33	III	Constructional Details
34	III	Types of transformers
35	III	EMF Equation
36	III	problems
37	III	Operation on No Load and on Load- Phasor Diagrams
38	III	Equivalent Circuit
39	III	Equivalent Circuit
40	III	Losses and Efficiency-Regulation
41	III	All Day Efficiency
42	III	problems
43	IV	OC and SC Tests
44	IV	OC and SC Tests
45	IV	problems
46	IV	Sumpner's Test
47	IV	Parallel Operation of transformers with Equal and Unequal Voltage Ratios
48	IV	Parallel Operation of transformers with Equal and Unequal Voltage Ratios
49	IV	Auto Transformers-Equivalent Circuit
50	IV	Auto Transformers-Equivalent Circuit
51	IV	problems
52	V	Three phase transformer connections - Y/Y, Y/Δ,
53	V	Δ/Y, Δ/Δ,
54	V	Open delta connection
55		problems
56	V	Three-winding transformers-tertiary windings
57	V	Scott connection
58	V	Scott connection
59	V	Problems

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Electrical and Electronics Engineering

PSD LESSON PLAN III-II A-SEC A.Y: 2022-23

UNITS	DATES	TOPICS
UNIT-I	12/26/2022	**UNIT- I: CONVERTER FED DC MOTORS**
	12/28/2022	Classification of Electric Drives
	12/29/2022	Basic elements of Electric Drive
	1/2/2023	Dynamic Control of a Drive system,Stability analysis
	1/4/2023	Single Phase Semi Controlled Converters Connected to D.C Separately Excited Motors
	1/5/2023	Single Phase fully Controlled Converters Connected to D.C Separately Excited Motors
	1/9/2023	Single Phase Semi Controlled Converters Connected to D.C Series Motors
	1/11/2023	Single Phase fully Controlled Converters Connected to D.C Series Motors
	1/12/2023	Three Phase Semi Controlled Converters Connected to D.C Separately Excited Motors
	1/16/2023	Three Phase fully Controlled Converters Connected to D.C Separately Excited Motors
	1/18/2023	Three Phase Semi Controlled Converters Connected to D.C Series Motors
	1/19/2023	Three Phase fully Controlled Converters Connected to D.C Series Motors
UNIT-II	1/23/2023	**UNIT – II: FOUR QUADRANT OPERATION OF DC DRIVES**
	1/25/2023	Introduction to Four Quadrant Operation
	1/25/2023	Electric Braking Operations
	1/30/2023	Plugging Operations
	2/1/2023	Dynamic Operations
	2/2/2023	Regenerative Braking Operations
	2/6/2023	Four Quadrant Operation of D.C Motors by Dual Converters
	2/8/2023	Closed Loop Operation of DC Motor (Block Diagram Only)
	2/9/2023	Numerical Problems
UNIT-III	2/13/2023	**UNIT-III:CHOPPER FED DC MOTORS**
	2/15/2023	Single Quadrant Chopper Fed DC Separately Excited Motors
	2/16/2023	Two Quadrant Chopper Fed DC Separately Excited Motors
	3/1/2023	Four Quadrant Chopper Fed DC Separately Excited
	3/2/2023	Single&Two quadrant chopper fed DC series motor drives
	3/6/2023	Problems on Chopper Fed on seperately excited D.C Motors
	3/8/2023	Problems on Chopper Fed on series D.C Motors
	3/9/2023	Closed Loop Operation of DC Motor (Block Diagram Only)
	3/13/2023	**UNIT – IV: CONTROL OF INDUCTION MOTOR**
	3/15/2023	Induction Motor Stator Voltage Control and Characteristics
	3/16/2023	AC Voltage Controllers – Waveforms

UNIT-IV	3/20/2023	Speed Torque Characteristics
	3/22/2023	Stator Frequency Control and Characteristics
	3/23/2023	Voltage Source and Current Source Inverter
	3/27/2023	PWM Control and Comparison of VSI and CSI Operations
	3/29/2023	Closed Loop Operation of Induction Motor Drives
	3/30/2023	Principles of Vector Control
	4/3/2023	Static Rotor Resistance Control
	4/5/2023	Slip Power Recovery
	4/6/2023	V/f control of Induction Motor
	4/10/2023	Performance and Speed Torque Characteristics
	4/12/2023	**UNIT – V: CONTROL OF SYNCHRONOUS MOTORS**
	4/13/2023	Separate Control & Self Control of Synchronous Motors
	4/17/2023	Operation of Self Controlled Synchronous Motors by VSI & CSI Cycloconverters
	4/19/2023	Load Commutated CSI Fed Synchronous Motor and its operation
	4/20/2023	Various types of Load Commutated CSI Fed Synchronous Motor
	4/21/2023	Closed Loop Control Operation of Synchronous Motor Drives

PSD LESSON PLAN III-II B-SEC A.Y: 2022-23

UNITS	DATES	TOPICS
UNIT-I	12/27/2022	**UNIT- I: CONVERTER FED DC MOTORS**
	12/29/2022	Classification of Electric Drives
	12/30/2022	Basic elements of Electric Drive
	1/3/2023	Dynamic Control of a Drive system,Stability analysis
	1/5/2023	Single Phase Semi Controlled Converters Connected to D.C Separately Excited Motors
	1/6/2023	Single Phase fully Controlled Converters Connected to D.C Separately Excited Motors
	1/10/2023	Single Phase Semi Controlled Converters Connected to D.C Series Motors
	1/12/2023	Single Phase fully Controlled Converters Connected to D.C Series Motors
	1/13/2023	Three Phase Semi Controlled Converters Connected to D.C Separately Excited Motors
	1/17/2023	Three Phase fully Controlled Converters Connected to D.C Separately Excited Motors
	1/19/2023	Three Phase Semi Controlled Converters Connected to D.C Series Motors
	1/20/2023	Three Phase fully Controlled Converters Connected to D.C Series Motors
UNIT-II	1/24/2023	**UNIT – II: FOUR QUADRANT OPERATION OF DC DRIVES**
	1/27/2023	Introduction to Four Quadrant Operation
	1/31/2023	Electric Braking Operations
	1/30/2023	Plugging Operations
	2/2/2023	Dynamic Operations
	2/3/2023	Regenerative Braking Operations
	2/7/2023	Four Quadrant Operation of D.C Motors by Dual Converters
	2/9/2023	Closed Loop Operation of DC Motor (Block Diagram Only)
	2/10/2023	Numerical Problems
UNIT-III	2/14/2023	**UNIT-III:CHOPPER FED DC MOTORS**
	2/21/2023	Single Quadrant Chopper Fed DC Separately Excited Motors
	2/23/2023	Two Quadrant Chopper Fed DC Separately Excited Motors
	2/24/2023	Four Quadrant Chopper Fed DC Separately Excited
	2/28/2023	Single&Two quadrant chopper fed DC series motor drives
	3/2/2023	Problems on Chopper Fed on seperately excited D.C Motors
	3/3/2023	Problems on Chopper Fed on series D.C Motors
	3/9/2023	Closed Loop Operation of DC Motor (Block Diagram Only)
UNIT-IV	3/10/2023	**UNIT – IV: CONTROL OF INDUCTION MOTOR**
	3/14/2023	Induction Motor Stator Voltage Control and Characteristics
	3/16/2023	AC Voltage Controllers – Waveforms
	3/17/2023	Speed Torque Characteristics
	3/21/2023	Stator Frequency Control and Characteristics
	3/23/2023	Voltage Source and Current Source Inverter
	3/24/2023	PWM Control
	3/28/2023	Comparison of VSI and CSI Operations

	3/31/2023	Closed Loop Operation of Induction Motor Drives
	4/4/2023	Principles of Vector Control
	4/11/2023	Static Rotor Resistance Control
	4/13/2023	Slip Power Recovery
	4/18/2023	V/f control of Induction Motor
	4/20/2023	Performance and Speed Torque Characteristics
UNIT-V	4/21/2023	**UNIT – V: CONTROL OF SYNCHRONOUS MOTORS**
	4/17/2023	Separate Control & Self Control of Synchronous Motors
	4/19/2023	Operation of Self Controlled Synchronous Motors by VSI and CSI Cycloconverters
	4/20/2023	Load Commutated CSI Fed Synchronous Motor and its operation
	4/21/2023	Various types of Load Commutated CSI Fed Synchronous Motor
	4/21/2023	Closed Loop Control Operation of Synchronous Motor Drives

B

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL

Department of Electrical and Electronics Engineering

Y.SAI INDIRA PRIYA DARSHINI

Lesson Plan-MPMC LESSON PLAN III-II B-SEC 2022-23 Academic Year

UNITS	DATES	TOPICS
UNIT-I	12/26/2022	**8086 MICROPROCESSOR:**
	12/28/2022	Introduction-8086 features
	12/29/2022	Architecture
	1/2/2023	Register organization
	1/4/2023	flag register,pin diagram
	1/5/2023	timing and control signals
	1/9/2023	system timing diagrams
	1/11/2023	Memory segmentation
	1/12/2023	Memory organization
	1/16/2023	memory banks accessing
	1/18/2023	Interrupt structure of 8086
	1/19/2023	interrupt vector table
UNIT-II	1/23/2023	**8086 Assembly language programming**
	1/25/2023	Instruction formats
	1/26/2023	addressing modes,instruction set of 8086
	1/30/2023	assembler directives
	2/1/2023	macros and procedures,sorting
	2/2/2023	multiplication,division
	2/6/2023	multi-byte arithmatic,code conversion
	2/8/2023	string manipulation instructions
	2/9/2023	simple ALP'S
UNIT-III	2/13/2023	**MSP430 Microcontroller**
	2/15/2023	Low power risk MSP430 Features
	2/16/2023	Blosk diagram
	3/1/2023	MSP430g2x53,block diagram
	3/2/2023	memory address space
	3/6/2023	register set
	3/8/2023	addressing modes
	3/9/2023	instruction set
	3/13/2023	on-chip peripherals
UNIT-IV	3/15/2023	**MSP430 Peripherals**
	3/16/2023	I/O ports and pull up/down resistors concepts
	3/20/2023	Interrupts and interrupt programming
	3/22/2023	watchdog timer,system clocks
	3/23/2023	low power modes
	3/27/2023	active stand by current consumption
	3/29/2023	Timer and real time clock (RTC)
	3/30/2023	PWM control,ADC and comparator
	4/3/2023	**MSP430 Serial Communication**
	4/5/2023	Serial communication basics
	4/6/2023	synchronous/asynchronous Interfaces

UNIT-V	4/10/2023	UART protocol
	4/12/2023	I2C protocol,SPI protocol
	4/13/2023	Implementing and Programming UART
	4/17/2023	I2C,SPI using MSP430
	4/19/2023	Revision
	4/20/2023	Revision

PRINCIPAL
G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)