

# SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Gajularega, Vizianagaram, Andhra Pradesh, India-535002.

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Program II C	Branch: ECE
Program: U.G	Subject: APPLIED PHYSICS
Course : B.TECH Academic Year:2022-23 (IYear II Semester)	Faculty Name: N. SESHU
LESSON PLAN	

#### Course Objectives:

Binding the gap between the physics in school at 10+2 level and UG level engineering courses

2. To identify the importance of the optical phenomenon i.e. interference, diffraction and polarization related to its Engineering applications

3. Understand the mechanism of emission of light. Utilization of lasers as coherent light sources for low and high energy applications. Study of propagation of light through optical fibers and their implications in optical communications

4. Enlightenment of the concepts of Quantum Mechanics and to provide fundamentals of Debroglie matter waves, Quantum mechanical wave equation and its application. The importance of free electron theory for crystalline solids Metals -Semiconductors -Insulators concepts utilization of transport phenomenon of charge carriers in semiconductors.

5. To explain the significant concepts of dielectric and magnetic materials that leads to potential

applications in the emerging micro devices

6. To understand the physics of semiconductors and their working mechanism. To give an impetus on the subtle mechanism of superconductors using the concepts of BCS theory and their fascinating applications.

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
		UNIT 1 : WAVE OPTION	S	7 - 1 -	
1	13/3/23	Syllabus: Applied Physics	1	TB1, R2	Chalk and Talk
2	14/3/23	Interference: Principle of superposition, Interference of light	2	TB1, R2	Chalk and Talk
3	17/3/23	Interference in thin films & applications	1	TB1, R2	Chalk and Talk
	18/3/23	Colors in thin films	1	TB1, R2	Chalk and Talk
4	20/3/23	Newton's Rings	2	TB1, R2	Chalk and Talk
5	21/3/23	Determination of wavelength and refractive index.	1	TB1, R2	Chalk and Talk
,	24/3/23	Diffraction: Introduction, Fresnel and Fraunhofer diffraction	1	TB1, R2	Chalk and Talk
	27/3/23	Fraunhofer diffraction due to single slit, double slit	2	TB1, R2	Chalk and Talk
,	27/3/23	Fraunhofer diffraction due to N-slits	1	TB1, R2	Chalk and Talk
	28/3/23	Dispersive power and resolving power of Grating	1	TB1, R2	Chalk and Talk
14	31/3/23	Polarization: Introduction-Types of polarization.	1	Print To	Chalk and Talk
1-	Managaran E	Polarization by reflection, refraction and	NO DE	. builder	Chalk and Talk

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		Double refraction.	1	TB1, R2	
13	3/4/23	Nicol's Prism, Half wave and Quarter wave		1,550,515	Chalk and Talk
	Number of Cla	plates.	2	TB1, R2	
	Author of Cir				
		UNIT 2: LASERS AND FIBER O	OPTICS	100	
14	4/4/23	Lasers: Introduction — Characteristics of laser	1	TB1, R2	Chalk and Talk
15	7/4/23	Spontaneous and Stimulated emissions of radiation	1	TB1, R2	Chalk and Talk
16	8/4/23	Population inversion, Lasing action, , Einstein's coefficients.	1		Chalk and Talk
17	10/4/23	Pumping mechanisms, Ruby laser	1	TB1, R2	Chalk and Talk
18	10/4/23	He-Ne laser - Applications of laser	1	TB1, R2	Chalk and Talk
19	11/4/23	Fiber optics: Introduction –Principle of optical fiber			Chalk and Talk
20	14/4/23	Acceptance Angle, Numerical Aperture.	1	TB1, R2	Chalk and Talk
21	15/4/23	Classification of optical fibers based on		TB1, R2	Chalk and Talk
22	17/4/23	Propagation of electromagnetic wave	2	TB1, R2	Chalk and Talk
_	Number of Cla	through optical fibers - Applications.	1	TB1, R2	
· Otal		NIT 3: QUANTUM MECHANICS, FREE ELECTRON	TUEODY A	UD BAND THE	DDV
	1	Quantum Mechanics: Dual nature of	THEORY AL	ND BAND THE	Chalk and Talk
23	18/4/23	matter	1	TB1, R2	Chaik and Talk
		Heisenberg's Uncertainty Principle, Significance and properties of wave			Chalk and Talk
24	21/4/23	function	1	TB1, R2	
25	22/4/23	Schrodinger's time independent and dependent wave equations.	2	TB1, R2	Chalk and Talk
26	24/4/23	Particle in a one-dimensional infinite potential well	1	TB1, R2	Chalk and Talk
27	25/4/23	Free Electron Theory: Classical free electron theory	1	TB1, R2	Chalk and Talk
28	28/5/23	Quantum free electron theory, Equation for electrical conductivity based on quantum free electron theory	1	TB1, R2	Chalk and Talk
.9	29/5/23	Fermi-Dirac distribution, Density of states (3D), Fermi energy	2	TB1, R2	Chalk and Talk
0	8/5/23	Band theory of Solids: Bloch's Theorem	1	TB1, R2	Chalk and Talk
1	12/5/23	Kronig - Penney model, E vs K diagram - v vs K diagram, effective mass of electron	2	TB1, R2	Chalk and Talk
2	13/5/23	Classification of crystalline solids-concept of hole.	1	TB1, R2	Chalk and Talk
otal N	Number of Clas	ses : 13			10.7427 1450
		UNIT- 4: DI ELECTRIC AND MAGNET	IC MATERI	ALS	8 3 E T 1 T 1 T 1
3	15/5/23	DielectricMaterials: Introduction, Types of polarizations.	1	TB1, R2	Chalk and Talk
	STEEHNOLOG				Chalk and Talk
1	15/5/23 VA AVACARIM	Dielectric constant  Electronic, Ionic, and Orientation	1	TB1, R2	Murthy and Talk

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-	16/5/23	polarizations	1	T01 02 1	
	Mark of Care	Lorentz internal field, Clausius, Mossotti		TB1, R2	
-	20/5/23	equation, Piezoelectricity	2	TR1 02	Chalk and Talk
		Magnetic Materials: Introduction -		TB1, R2	Chall In I
-	22/5/23	Magnetic dipole moment	1	TB1, R2	Chalk and Talk
		Magnetization, Magnetic susceptibility		101, 112	Challe and Tall
_	22/5/23	and permeability	1	TB1, R2	Chalk and Talk
	23/5/23	Origin of permanent magnetic moment	1	TB1, R2	Chalk and Talk
		Classification of magnetic materials: Dia,		101, 112	Chalk and Talk
		para, Ferro, Anti ferro & Ferri magnetic		Jan 1	Chaik and Tall
)	26/5/23	materials	1	TB1, R2	
		Domain concept for Ferromagnetism &		TOL, ILE	Chalk and Talk
1	27/5/23	Domain walls	1	TB1, R2	and and ron
		Hysteresis, soft and hard magnetic		1.24.02	Chalk and Talk
2	29/5/23	materials	1	TB1, R2	
3	29/5/23	Eddy currents, Engineering applications	1	TB1, R2	Chalk and Talk
otal	Number of Cla	sses:12			
		UNIT - 5: SEMI CONDUCTORS AND SUPE	R CONDU	CTORS	
	B 4 DW	Semiconductors: Introduction, Intrinsic			Chalk and Talk
	The state of the s	semiconductors – Density of charge		1	
44	30/5/23	carriers	1	TB1, R2	
	1	Electrical conductivity, extrinsic	397		Chalk and Talk
	5.74	semiconductors – density of charge		Carrie of Stones	
45	2/6/23	carriers	1	TB1, R2	
	2/5/22	Fermi level, Dependence of Fermi energy	55.4		Chalk and Talk
46	3/6/23	on carrier concentration and temperature	1	TB1, R2	
47	5/6/22	Drift and diffusion currents – Einstein's	-	T04 00	Chalk and Talk
4/	5/6/23	equation Hall effect, Hall coefficient,	1	TB1, R2	Chalk and Talk
48	5/6/23	Applications of Hall effect	1	TB1, R2	Chaik and Talk
40	3/0/23	Superconductors: Introduction, Properties	1	101, 112	Chalk and Talk
49	6/6/23	of superconductors	1	TB1, R2	Chaik and Talk
45	0,0,23	Type I and Type II superconductors, High		102/10	Chalk and Talk
50	9/6/23	Tc superconductors	1	TB1, R2	errain una run
-	2,3,20	BCS theory, Meissner effect, Josephson			Chalk and Talk
51	12/6/23	effects (AC and DC) - SQUIDs.	2	TB1, R2	
52		Applications of superconductors	1	TB1, R2	Chalk and Tall
53		Revision of Unit - 3	1		
54	The second secon	Revision of Unit - 4	2	11/2-2/	
1 27	an te ten	Revision of Unit - 5	1		
55	20/6/23 tal Number of				

#### Text Books:

1. M. N. Avadhanulu, P.G. Kshirsagar & TVS Arun Murthy" A Text book of Engineering Physics"- S. Chand Publications, 11th Edition2019.

2. Engineering Physics" by D. K. Bhattacharya and Poonam Tandon, Oxford press(2015). Applied Physics by P.K. Palanisamy Sci Techpublications.

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#### References:

- 1. Fundamentals of Physics Halliday, Resnick and Walker, John Wiley&Sons
- 2. Engineering Physics by M.R.Srinivasan, New Age international publishers (2009).
- 3. Shatendra Sharma, Jyotsna Sharma, "Engineering Physics", Pearson Education, 2018
- 4. Engineering Physics Sanjay D. Jain, D. Sahasrabudhe and Girish, UniversityPress
- 5. Semiconductor physics and devices- Basic principle Donald A, Neamen, Mc GrawHill
- 6. B.K. Pandey and S. Chaturvedi, Engineering Physics, CengageLearning

Signature of the Faculty

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Program: U.G	Branch: CSE	
Course : B.TECH	Subject: Mathematics - II	
Academic Year:2022-23 (I Y	ear II Semester)	Faculty Name: A. ANILKUMAR
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#### Course Objectives:

- To instruct the concept of matrices in solving linear algebraic equations
- To elucidate the different numerical methods to solve non-linear algebraic equations
- To disseminate the use of different numerical techniques for carrying out numerical integration
- To equip the students with standard concepts and tools at an intermediate to advanced level mathematics to develop the confidence and ability among the students to handle various real world problems and their applications

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
	Unit 1: S	OLVING SYSTEM OF LINEAR EQUATIONS, EIG	EN VALUES	AND EIGEN V	ECTORS
1	16/3/23	Introduction, rank of matrix and problems	- 1	TB1, R2	Chalk and Talk
2	16/3/23	Echelon form and Normal form of a matrix	1	TB1, R2	Chalk and Talk
3	18/3/23	PAQ method to find rank	1	TB1, R2	Chalk and Talk
4	23/3/23	Consistency and inconsistency of system of equations	2	TB1, R2	Chalk and Talk
5	23/3/23	Gauss-Elimination method	2	TB1, R2	Chalk and Talk
6	25/3/23	Eigen values and Eigen vectors of a matrix	1		
7	28/3/23	Eigen values and Eigen vectors of a matrix	2	TB1, R2	Chalk and Talk
8	30/3/23	Properties of eigen values	2	TB1, R2	Chalk and Talk
-	Number of Clas	ses: 12		1	
		Unit 2: CAYLEY- HAMILTON THEOREM AN	QUADRAT		
9	3/4/23	Diagonalisation of a matrix	2	TB1, R2	Chalk and Talk
10	4/4/23	Introduction of Cayley-Hamilton theorem and applications	1	TB1, R2	Chalk and Talk
11	6/4/23	Problems of Cayley-Hamilton theorem and applications	2	-165-1	11.44
12	11/4/23	Quadratic forms and nature of quadratic forms	2	TB1, R2	Chalk and Talk
13	13/4/23	Reduction of quadratic form to normal form: Diagonalisation method	2	TB1, R2	Chalk and Talk
14	17/4/23	Reduction of quadratic form to normal form: Orthogonal transformation	2	TB1, R2	Chalk and Talk
15	20/4/23	Singular value decomposition of a matrix	2	TB1, R2	Chalk and Talk
	Number of Clas				amagal dogy
	12/	(S) UNIT3: ITERATIVE METH	IODS	01.0.4	Principo Tramam
16	20/4/23	Bisection method	1	TB1, R2,	Ch. "Cudikiana raik

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	22/4/23	Secant method	1	TB1, R2	Chalk and Talk
1	100/2017/01/2	Regula - Falsi method or Method of false-	10	TB1, R2	Chalk and Talk
	27/4/23	position	1	TB1, R2	Chalk and Talk
	29/4/23	Iteration method	2	TB1, R2	Chalk and Talk
	9/5/23	Newton-Raphson method	2	TB1, R2	Chalk and Talk
	11/5/23	Newton-Raphson method for simultaneous equations	1		Chalk and Talk
	13/5/23	Solution of system of equations: Gauss- Jacobi method	2	TB1, R2	Chalk and Talk
	15/5/23	Solution of system of equations: Gauss- Seldel method	1	TB1, R2	Chaik and Talk
Inte	Number of Clas				
ren	womber of Clas	Unit 4: INTERPOLATION			1 1 1
4	1	Introduction to Interpolation, Forward	1	TB1, R2	Chalk and Talk
5	16/5/23	differences and Forward difference table  Backward differences and Backward	1	TB1, R2	Chalk and Talk
6	18/5/23	Central differences and Central	1	TB1, R2	Chalk and Talk
27	18/5/23	Relation between various differences	-la	TB1, R2	Chalk and Talk
	22/5/23	operators	2	TB1, R2	Chalk and Talk
28	25/5/23	Newton's forward interpolation		TB1, R2	Chalk and Talk
29	27/5/23	Newton's Backward interpolation	2	TB1, R2	Chalk and Talk
30	30/5/23	Lagrange's Interpolation formulae and Problems	2		Chalk and Talk
31	1/6/23	Newton's divided difference formulae and problems	2	TB1, R2	Cliaix and Ten
Tot	al Number of C				ENTINE EQUATION
100	it E. NUMERICA	AL DIFFERENTIATION AND INTEGRATION, SOLUTION	N OF OR	DINARY DIFFER	Chalk and Talk
32	3/6/23	Numerical differentiation: Using Newton's	1	1,000	10810429 (1797) 233 (474)
33	A020000000	Numerical differentiation: Using Newton's Backward interpolation formula	1	TB1, R2	Chalk and Talk
34	5/6/23	Numerical differentiation: Using Newton's	- 12	TB1, R2	Chalk and Talk
-	6/6/23	Central difference interpolation formula	1	TB1, R2	Chalk and Talk
35		Numerical Integration: Trapezoidal rule	1	TB1, R2	Chalk and Talk
36	The state of the s	Numerical Integration: Simpson's 1/3rd rule	1		Chalk and Talk
37		Numerical Integration: Simpson's 3/8 <sup>th</sup>	1	TB1, R2	Chalk and Talk
38		Solution of ODE: Taylor's method	1	TB1, R2	Chalk and Talk
39		Solution of ODE: Picard's method	1	TB1, R2	The second secon
40		Solution of ODE: Euler's method	1	TB1, R2	Chalk and Talk
41	The second second second	Solution of ODE: Modified Euler's method	1	TB1, R2	Chalk and Talk
-	The second secon	Solution of ODE: Runge-Kutta method	2	TB1, R2	Chalk and Talk
42		Classes: 12			



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Principal
Salya Institute of Technology and
Management (STAM)
Management Vizianagaram
Gajularega, Vizianagaram

# xt Books:

- B.S.GREWAL, Higher Engineering Mathematics, 44th Edition, Khanna Publishers
- 2. B.V.RAMANA, Higher Engineering Mathematics, 2007 Edition, Tata Mc.Graw Hill Education.
- David Poole, Linear Algebra A modern introduction, 4th Edition, Cengage.

# eferences:

- 1. Steven C.Chapra , Applied Numerical Methods With MATLAB for Engineering and Science, Tata Mc.Graw Hill Education.
- 2. M.K.Jain , S.R.K Iyengar and R.K.Jain , Numerical Methods for Scientific and Engineering computations, New age International Publications.

Signature of the Faculty

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Program : UG	Branch: H&BS
	Subject: APPLIED CHEMISTRY
Course: B.TECH Academic Year: 2021-2022 (I year I sem)	Faculty Name: J.S.SAILAJA(R201115)
Academic Year: 2021-2022 (1 Year Year)	LESSON PLAN
Course Objectives:-  • Importance of usage of plastics in household a	ppliances and composites (FRP) in aerospace and automotive
Outline the basics for the construction of elec	trochemical cells, batteries and fuel cells. Understand the mechanism
of corrosion and how it can be prevented.	nd nanomaterials, engineering applications of nanomaterials,
superconductors and liquid crystals.	6 see studied due to depleting
<ul> <li>Recall the increase in demand for power and sources of fossil fuels. Advanced instrumental to</li> </ul>	hence alternative sources of power are studied due to depleting echniques are introduced.
Outline the basics of computational chemistr	y and molecular switches

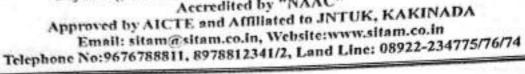
	Proposed	Unit No & Topic to be covered	Required no. of priods	Reference Text Book	Nature of Teaching
S.NO	date	UNIT-I			
1	13-12-2021	Introduction to polymers	1	TB2,TB1	chalk &talk
2	14-12-2021	methods of polymerization (emulsion and suspension mechanical properties.	1	TB1	chalk &talk
3	16-12-2021	(PVC, polycarbonates and Bakelite	1	TB1	chalk &talk
4	17-12-2021	mention some examples of plastic materials used in electronic gadgets, recycling of e-plastic waste (waste to wealth)	1	TB1	chalk &talk
5	20-12-2021	Introduction, preparation, properties and applications (Buna S, thiokol and polyurethanes	1	TB1	chalk &talk
6	21-12-2021	Composite materials: Fiber/reinforced plastics	1	TB1	chalk &tall
7	23-12-2021	Conducting polymers	1	TB1	chalk &tall
8	24-12-2021	77.51	andny .	TB1	chalk &tal
9	28-12-2925	Diomedial polymers Dr.D.V.P.	ana murthy	TTB1	chalk &tal

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	30-12-2021	Bio polymers	1.2,	TBI	chalk &ta
0		Bio polymers	-	TB1	a some and a some
1	31-12-2021	Bakelite preparation	1	BULL	chalk &ta
2	3-01-2022	polyurethanes	1	TBI	chalk &tal
3	04-01-2022	revision	1		
4	05-01-2022	Class test	1	- Fits	135
		Total no. of classes	13	THE SALE	
		UNIT-II	11111	Lees	
15	05-01-2022	Single electrode potential, electrochemical series and uses of series	1	TB1	chalk &talk
16	07-01-2022	standard hydrogen electrode,calomel electrode	1	TB1	chalk &talk
12	19-01-2022	construction of glass electrode, batteries Dry cell, Li ion battery and zinc air cells	1	TB1	chalk &talk
17	20-01-2022	fuel cells (H2-Oz, CH3OH-Oz, phosphoric acid and molten carbonate)	1	TBI	chalk &talk
18	21-01-2022	Definition, theories of corrosion (chemical and electrochemical, galvanic corrosion	1	TBI	chalk &talk
20	22-01-2022	differential aeration corrosion, stress corrosion, galvanic series, corrosion control (proper designing and cathodic protection), Protective coatings	1	TBI	chalk &talk
	24-01-2022	(surface preparation, cathodic coatings, anodic coatings, electroplating and electroless plating [nickel]), Paints (constituents,	1	TB1	chalk &talk
22	25-01-2022	(constituents functions and special paints	1	TB1	chalk &talk
23	26-01-2022	, factors influencing rate of corrosion	1	TB1	chalk &talk
24	100	REVISION	1	TB1	chalk &talk
	C. VIII.	Total no. of classes	10		
T		UNIT-III			
	27-01-2022	Non-elemental semiconducting materials:- Stolchiometric, controlled valency & chalcogen		TB1	chalk &talk
25	28-01-2022	preparation of semiconductors (distillation, zone refining, Czochralski crystal pulling, epitaxy, diffusion, ion implantation	1	TB1	chalk &talk



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27	01-02		recti	iconductor devices (p-n junction diode as ifier, junction transistor).	1	тві	chalk &talk
	03-02	-02-2022 ef Pa		etrical insulators-ferro and ferri magnetism-Hall ect and its applications.  t II: Nano materials:- Introduction, sol-gel		ТВ1	chalk &talk
28	04-0	2-2022	(sc	anning electron microscopy [SEM]) and ansmission electron microscopy [TEM	10 2 3	TB1	chalk &talk
30	07-0	2-2022		plications of graphene and fullerenes,	1	TB1	chalk &talk
31		2-2022	F	illerene,carbon nanotubes	1	TBI	chalk &talk
32	10-0	02-2022	L	iquid crystals	1	TB1	chalk &talk
33	11-	02-2022	s	uperconductivity	1	TB1	chalk &talk
		18.42		Kalo Transfer in the Control	9	himo-tuni	381 1
				UNIT-IV	100		
34		-02-2022	2 1	Electromagnetic spectrum-UV (laws of absorption, instrumentation, theory of electronic spectroscopy,	1	TB1,R1	chalk &talk
35	17	7-02-202	2	Frank-condon principle, chromophores and auxochromes, intensity shifts, applications	2	TB1,R1	chalk &talk
	1	8-02-202	_	[instrumentation and differentiation of sp, sp2, sp3 and IR stretching of functional groups (alcohols, carbonyls, amines) applications], magnetic resonance imaging	2	TB1,R1	chalk &talk
		20-02-20	22	Design, working, schematic diagram, advantages and disadvantages of photovoltaic cell, hydropower, geothermal power	1	TB1,R1	chalk &talk
		21-02-20	22	Design, working, schematic diagram, advantages and disadvantages, tidal and wave power, ocean thermal energy conversion	2	TB1,R1	chalk &talk
1	38	22-02-20	022	Procedure for MRI scan	1	TB1,R1	chalk &talk
1		315	00		9		
				UNIT-V	T	1	
	40	23-02-2	022	Computational chemistry: Introduction	1	TB1,R1	chalk &talk
1		24-02-2		tional chemistry molecular modelling and	e pama Murth	TB1,R1	chalk &talk
L	41		SIN	computational chemistry, molecular modelling and docking pro-	Principal Principal Bude of Technoli Bude of Technoli	All) garam	

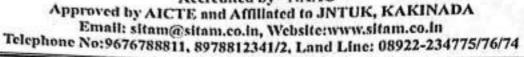
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42	25-02-2022	Molecular switches:	7	l.m.n.	1
43	26-02-2022	characteristics of molecular motors and machines,	1	TB1,R1	
44	28-02-2022	Rotaxanes and Catenanes as artificial molecular machines,	1	TB1,RI	chalk &t
45	01-03-2022		1	TB1,R1	chalk &ta
46	02-03-2022	prototypes – linear motions in rotaxanes,	1	TB1,R1	chalk &ta
9.14	04-03-2022	, an acid-base controlled molecular shuttle  Molecular switches: characteristics of molecular motors and machines. Parts of molecular	1	TB1,R1	chalk &ta
47	100	motors and machines, Rotaxanes and Catenanes as artificial molecular machines, prototypes –	200		A Page
48	05-03-2022	Molecular elevator	1	TB1,R1	chalk &tal
49	06-03-2022	Autonomous light powered molecular motor	1	TB1,R1	chalk &tall
50	08-03-2022	Revision Powered molecular motor	1	TB1,R1	chalk &talk
51	10-03-2022	Revision	1	TB1,R1	chalk &talk
	11-03-2022	Revision	1	TB1,R1	chalk &talk
-	12-03-2022	Class test	1	TB1,RI	chalk &talk
1	13-03-2022	Class test	1	TB1,R1	chalk &talk
54		Total no. of classes	1	TB1,R1	chalk &talk
	170.00	Total no. of classes (all units)	17		

#### Text Books:

- P.C. Jain and M. Jain "Engineering Chemistry", 15/e, Dhanpat Rai & Sons, Delhi, (Latest edition).
- Shikha Agarwal, "Engineering Chemistry", Cambridge University Press, New Delhi, (2019).
- S.S. Dara, "A Textbook of Engineering Chemistry", S.Chand & Co, (2010).
- Shashi Chawla, "Engineering Chemistry", Dhanpat Rai Publicating Co. (Latest edition

REFERENCES:

BU NO



# SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Gajularega, Vizianagaram, Andhra Pradesh, India-535002. Accredited by "NAAC"

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- K. Sesha Maheshwaramma and Mridula Chugh, "Engineering Chemistry", Pearson India Edn.
- O.G. Palana, "Engineering Chemistry", Tata McGraw Hill Education Private Limited, (2009).
- CNR Rao and JM Honig (Eds) "Preparation and characterization of materials" Academic press, New York (latest edition)
- B. S. Murthy, P. Shankar and others, "Textbook of Nanoscience and Nanotechnology", University press (latest edition)

Signature of the faculty

Signature of the HOD(H&BS)

SPOC, WOAC SITAM GAJULAREGA VIZIANAGARAM A P INDIA

Dr.D.V.Rama Murthy

Dr.D.V.Rama Murthy

Principal

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Program: U.G Branch: ECE

Course: B.TECH Subject: NETWORK ANALYSIS

Academic Year: 2022-23 [I Year: II Semester] Faculty Name: Mr P KARUNAKAR

LESSON PLAN

#### Course Objectives:

- To understand the basic concepts on RLC circuits.
- 2. To know the behaviour of the steady states and transients states in RLC circuits.
- 5. To know the basic Laplace transforms techniques in periods' waveforms.
- 4. To understand the two port network parameters.
- 5. To understand the properties of LC networks and filters.

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
		UNIT-I: Introduction to Electrical C	ircuits		
1	15/3/23	Introduction, Network elements classification	2	T1& R2	ICT
2	17/3/23	Electric charge and current, Electric energy and potential, Resistance parameter, Resistance parameter – series and parallel combination. Inductance parameter – series and parallel combination,	2	T1& R2	Chalk & Talk
3	18/3/23	Capacitance parameter – series and parallel combination Energy sources: Ideal, Non-ideal, Independent and dependent sources,	13	T1& R2	Chalk & Talk
4	22/3/23	Source transformation, Kirchoff's laws, Mesh analysis	2	T1& R2	Chalk & Talk
5	24/3/23	Mesh analysis numerical problems	2	T1& R2	Chalk & Talk
6	25/3/23	Nodal analysis problem solving with resistances only including dependent sources	1	T1& R2	Chalk & Talk
7	29/3/23	Nodal analysis numerical problems, Definitions of terms associated with periodic functions: Time period, Angular velocity and frequency RMS value	2	Lasi	
8	31/3/23	Average value, Form factor and peak factor- problem solving, Phase angle, Phasor representation, Addition and subtraction of phasors, mathematical representation of sinusoidal quantities,	2	T1& R2	Chalk & Telk
9	1/4/23	Explanation with relevant theory, problem solving, Principal of Duality with examples	1	T1& R2	Chalk & Talk
10	5/4/23	Definitions of branch, node, tree, planar, non-planar Graph, incidence matrix, basic tie set schedule, basic cut set schedule and problem solving	2	T1& R2	ICT
		Total No of Classes	17	11/2/19/19/19	101
		Unit 2: Transients			
11	7/4/23	First order differential equations, Definition of time constants	2	R3	Chalk & Talk
12	8/4/23	R-L circuit with DC excitation, Evaluating initial conditions procedure	1		Committee Fellow
3	12/4/23	R-C circuit with DC excitation . Evaluating initial conditions procedure	2	R3	Chalk & Talk
4	14/4/23	second order differential equations, homogeneous, non- homogeneous	2	R3	Chalk & Talk
500	15/4/23	problem solving using R-L-C elements with DC excitation and AC excitation	1	R3	Chalk & Talk
6	19/4/23	Response as related to s-plane rotation of roots	2	R3	THE RESERVE OF THE PERSON NAMED IN COLUMN 1
otal N	lumber of C	asses	10	1.3	Chalk & Talk

POC, IQAC GAJULAREGA VIZIANAGARAM AP INDIA Dr.D.V.Rama marthy

Dr.D.V.Rama marthy

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Salya institute of the Cartagaram

Management Vizianagaram

Dept. of E

Dept. of Electrical & Electronics Engine

Satya Institute of Technology & F | HRL+

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30.		UNIT3:			
17	21/4/23	Steady State Analysis of A.C Circuits: Response to simusoidal excitation - pure resistance, pure inductance, pure capacitance	2	TI&RI	Chall A Tar
18	22/4/23	impedance concept, phase angle, series R-L, R-C, R-L-C circuits problem solving	1	TI&RI	Chalk & Talk
19	26/4/23	Complex impedance and phasor notation for R-L,R-C problem solving using mesh and nodal analysis	2		Chalk & Talk
20	28/4/23	Complex impedance and phasor notation for R-L-C problem solving using mesh and nodal analysis		TI&RI	Chalk & Talk
21	29/4/23	Star-Delta conversion, problem solving	2	T1& R1	Chalk & Talk
22	10/5/23	Coupled Circuits :Self inductance, Mutual inductance, Coefficient of coupling, analysis of coupled circuits	2	TI&RI TI&RI	Chalk & Talk
23	12/5/23	Natural current, Dot rule of coupled circuits, Conductively coupled equivalent circuits	2	TIÆRI	Chalk & Talk
24	13/5/23	Numerical problems	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tota	Number of	Classes	-	T1&R1	Chalk & Talk
		Unit 4:	14		
25	17/5/23	Resonance: Introduction, Definition of Q, Series			
26		resonance, Bandwidth of series resonance	2	TI&RI	ICT
- 00	19/5/23	Parallel resonance, Condition for maximum impedance, current in anti resonance	2	TI&RI	ICT
27	20/5/23	Bandwidth of parallel resonance, general case resistance present in both branches	1	TI&R1	ICT
28	24/5/23	anti resonance at all frequencies . Numerical problems	2	T1&R1	Chalk & Talk
29	26/5/23	Network Theorems: Superposition Theorem	2	T1&R1	Chalk & Talk
30	27/5/23	Thevinin's Theorems	1	TI&R1	Chalk & Talk
31	31/5/23	Norton's Theorems, Max Power Transfer Theorem	2	TI&RI	Chalk & Talk
32	2/6/23	Numerical problems on maximum power transfer	2	TI&R1	Chalk & Talk
33	3/6/23	Reciprocity Theorem	1	T1&R1	Chalk & Talk
34	7/6/23	Compensation & Substitution Theorem, Milliman's & Tellegen Theorem	2	TI&RI	Chalk & Talk
ota	Number of C	lasses	17		101 100 100
		Unit 5: Two-port Networks	Contract of		
35	9/6/23	Z-parameters, Y-parameters	2	T1&R1	ICT
6	10/6/23	Transmission line parameters, h-parameters,	1	T1&R1	Chalk & Talk
7	14/6/23	Inverse h-parameters, Inverse Transmission line parameters	2	110001	Chair & Tark
18	16/6/23	Relationship between parameter sets	2	TI&RI	Chalk & Talk
19	17/6/23	Parallel connection of two port networks	1	TI&RI	Chalk & Talk
0	21/6/23	Cascading of two port networks,	2		
1	23/6/23	series connection of two port networks	1	TI&R1	Chalk & Talk
otal	Number of C	lasses	_	TI&R1	Chalk & Talk
		lasses for all units	11		
	Tarringer of L	respect for an arrica	69		

Text Books: 1. Electric Circuit Analysis by Hayt and Kimmarle, TMH, 2006 2. Network Analysis by K. Satya Prasad and S Sivanagaraju, Cengage Learning References:

1. Basic Circuit Analysis by DR Cunninghan, Jaico Publishers.

Network Analysis and Filter Design by Chadha, Umesh Publications.
 Electrical Machine Design by A.K. Sawhney, Dhanpat Rai & Sons publications.

Signature of the Faculty

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#### SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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Program: U.G Branch: Civil Engineering

Course: B.TECH Subject: : GEOTECHNICAL ENGINEERING - I

Academic Vear: 2022-23 (III Year I Semester) Faculty Name: B.H.S.SAI PRASANTH

#### LESSON PLAN

#### Course Objectives:

The Objectives of this course are:

1. To enable the student to determine the index properties of the soil and classify it.

2. To impart the concept of seepage of water through soils and determine the discharge of water through soils.

To impart the principles of compaction and consolidation of soils and determine the magnitude and the rate of consolidation settlement.

 To enable the student to understand the concept of shear strength of soils, determine the shear parameters of sands and clays and the areas of their application

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
	m iga water	UNIT - I Introduction to geotech	nical engine	ering	1401610
1	11222		2	TB1, R1	Chalk and Talk
2	2/2/2	clay mineralogy – Adsorbed water	2	TB1, R1	Ppt
3	4/2/23	Mass- volume relationship	1	TB1, R1,R2	Chalk and Talk
	8/2/23	Mass- volume relationship	2	TB1, R1,R2	Chalk and Talk
	9/2/23	Relative density	2	TB1, R1	Chalk and Talk
	11/2/2	Inday Properties of Soils: Cosin size analysis	1	TBI, RI	Chalk and Talk
	15/2/23	Sieve and Hydrometer methods consistency limits and indices	2	TB1, R1	Ppt
	16/2/23	Various Types of soil Classifications Unified soil classification and I.S. Soil classification	2	TB1, R1,R2	Chalk and Talk
	18/2/23	Soil water - capillary rise One dimensioned	2	TB1, R1	Chalk and Tall
-	277.41	UNIT - II Permeability & Geost		TB1 R1	Chalk and Tall
	22/0/23	Darcy's law- permeability	2	TB1, R1	, Chalk and Talk
	22/2/23	Factors affecting	1	TB1, R1,R2	· , Tutorial
	23/2/23	laboratory determination of coefficient of permeability	2	TB1, R1	-Chalk and Talk
1	25/2/23	Permeability of layered systems.	2	TB1, R1	Chalk and Tall
1	13/23	Geostatic Stresses: Total, neutral and effective stresses	1	TB1, TB2 ,R2	Chalk and Tall
11		quick sand condition Seepage: 2-D flow and	2	TB1, R1	Tutorial
1	13/23	Laplace's equation	-		
1 2	13/23	Laplace's equation Seepage through soils-Flow nets	2	TB1, R1	Ppt

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	1220111111		2	TB1, R1	Chalk and Talk
18	4/3/23	Stresses induced by applied loads		75/03/25/2	Chalk and Talk
19		Problems	2	TB1, R1	
	8323	CD 137 262 1038 1	1	TB1, TB2,R2	Chalk and Talk
20	5/3/23	Boussinesq's and Westergaard's theories for point loads and areas of different shapes		1136189.50.015534-51	or trolle
21		Westergaard's theories for point loads and	2	TB1, TB2,R1	Chalk and Talk
2	1113 23	areas of different shapes Problems on Boussinesq's and Westergaant's	2	TBI, RI	Ppt
3	15 3 23	Newmark's influence chart	1	TB1, TB2,R2	Chalk and Talk
24	16/5/23	2:1 stress distribution method problems	2	TB2, R2	Chalk and Talk
**	1E 3 23	Classes =	12		THE RESERVE

#### UNIT - IV Compaction & Compaction

25		Mechanism of compaction	2	TB1, TB2,R1	Chalk and Talk
	22/3/23				ar ar a Traile
26	23 3 23	Factors affecting – effects of compaction on soil properties	1	TB1 ,R2	Chalk and Talk
27	23/3/24	Compaction Control.	2	TB1 ,R2	Chalk and Talk
28	25/3/2	Consolidation: Compressibility of soils -e-p and e-log p curves.	2	TB1,R2	Ppt
29	29/3/22	Stress history - Concept of consolidation	1	TB2, R1	Chalk and Talk
30	36/3/23	Spring Analogy -Terzaghi's theory of one- dimensional Consolidation – Time rate of consolidation	2	TB1, R2	Ppt
31	1/4/28	degree of consolidation - Determination of coefficient of consolidation (cv)	2	TB1,R1	Chalk and Talk
32	1/4/22	Over consolidated and normally consolidated clays.	1		1.

# UNIT - V Shear Strength of Soils

33	8 4 25	Basic mechanism of shear strength -Mohr = Coulomb Failure theories	2	TBI, RI	Chalk and Talk
34		Stress-Strain behaviour of Sands	2	TB1, R1	Chalk and Talk
35	15/4/23	Critical Void Ratio	1	TB1, RI	Chalk and Talk
36	28/4/22	Stress-Strain behaviour of clays and problems	2	TB1, R1	Chalk and Talk
37	29/4/23	Shear Strength determination- various drainage conditions	2	TB1, R1	Chalk and Talk
38	6/5/22	Problems	,	TB1, R2	773 4

Total no of classes= 64





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DITAM GAJULAREGA

#### TEXT BOOKS:

- 1. Gopal Ranjan and A.S.R.Rao, "Basic and Applied Soil Mechanics", New Age International Publishers.
- 2. V.N.S.Murthy, "Soil Mechanics and Foundation Engineering", CBS publishers
- 3. M.Palani Kumar, "Soil Mechanics", PHI Learning

#### References:

1. D.W.Taylor, "Fundamentals of Soil Mechanics", Wiley.

2. Holtz and Kovaes, "An introduction to Geotechnical Engineering" Prentice Hall

3. Donald P. Coduto, Man-chu Ronald Young and William A. Kitch.

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Rama Murthy Principal

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Program: U.G Branch: Civil Engineering

Course : B.TECH Subject: STRENGTH OF MATERIALS-II

Academic Year: 2022-23- (II Year II Semester) Faculty Name: K GAYATRI KIRAN

LESSON PLAN

Course Objectives: The Learning destinations of this paper is to comprehend the idea and nature of Managerial Economics and its relationship with different disciplines and furthermore to comprehend the Concept of Demand and Demand anticipating, Production work, Input Output relationship, Cost-Output relationship and Cost-Volume-Profit Analysis.

To comprehend the idea of business sectors, Methods of Pricing in the different market structures and to know the various types of Business association and the idea of Business Cycles.

To learn different Accounting Systems, readiness of Financial Statement and employments of various apparatuses for execution assessment. At long last, it is likewise to comprehend the idea of Capital, Capital Budgeting and the methods used to assess Capital Budgeting proposition.

Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
		d Theories	of Failures	
3/6/23	Introduction - Stresses on an inclined section of a bar under axial loading	1	TB1, R1	Chalk and Talk
1/2/23	compound stresses	- 1	TB1, R6	'Chalk and Talk
2/2/23	Normal and tangential stresses on an inclined plane for biaxial stresses	2	TB1, R6	Chalk and Talk
	Two perpendicular normal stresses accompanied by a state of simple shear	2	TB1, R6	· Chalk and Talk
	Mohr's circle of stresses	2	TB1, R6	Chalk and Talk
9/2/23	Principal stresses and strains – Analytical and graphical solutions	2	TBI, R6	Chalk and Talk
14/2/23	Theories of Failures: Introduction	1	TB1, R6	Chalk and Talk
	Various Theories of failures like Maximum Principal stress theory	2	TB1, R6	Chalk and Talk
	Maximum Principal strain theory – Maximum shear stress theory	2	TB1, R6	Chalk and Talk
21/2/23	Maximum strain energy theory – Maximum shear strain energy theory	2	TB1, R6	Chalk and Talk
Control of the Contro	Unit 2 Torsion of Circular Shaft	s and Spring	s	
22/2/23	Theory of pure torsion	1	TB1, R6	Chalk and Talk
24/2/23	Derivation of Torsion equations: T/J = q/r = N\phi/L - Assumptions made in the theory of pure torsion	2	TB1, R6	Chalk and Talk
28 2 2 2 3	Torsional moment of resistance - Polar section modulus	2	TB1, R6	Chalk and Talk
1 1	Power transmitted by shafts - Combined bending and torsion and end thrust	2	TB1, R6	Chalk and Talk
	Date  3   6   23 1   2   23 2   2   23 2   2   23 9   2   23 14   2   23 14   2   23 16   2   23 24   2   23 24   2   23	UNIT- I Principal Stresses and Strains An Introduction – Stresses on an inclined section of a bar under axial loading compound stresses    2   2   3   Normal and tangential stresses on an inclined plane for biaxial stresses   Two perpendicular normal stresses accompanied by a state of simple shear	Unit No. & Topics to be covered    Date	Unit No. & Topics to be covered Periods Books  UNIT-1 Principal Stresses and Strains And Theories of Faitures  Introduction – Stresses on an inclined section of a bar under axial loading compound stresses  Introduction – Stresses on an inclined section of a bar under axial loading compound stresses  Introduction – Stresses on an inclined section of a bar under axial loading compound stresses  Introduction – Stresses on an inclined section of a bar under axial loading compound stresses  Introduction – Stresses on an inclined section of a bar under axial loading compound stresses  Introduction – Interpretation of the stresses on an inclined plane for biaxial stresses on an inclined stresses on an inclined stresses on an inclined stresses on an inclined plane for biaxial stresses on an inclined section plane for biaxial stresses on an inclined section plane for biaxial stresses on an inclined section pall tresses on an inclined section for a bar under axial loading in the stress theory  Introduction of Torsion equations: Introduction inclined section plane for inclined stress theory inclined stress theory  Introduction of Torsion equations: Introduction inclined section modulus inclined plane for biaxial stresses and strains and section modulus inclined plane for biaxial stresses and strains and section modulus inclined plane for biaxial stresses and strains and section modulus inclined plane for biaxial stresses and strains and section from

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18	1 1	Design of shafts according to theories of	1	TB1, R6	
9	2323	failure.  Springs: Introduction – Types of springs	2	TB1, R6	Chalk and Ta
	7-3/23	Deflection of close and open coiled	2	TB1, R6	Chalk and Ta
20	9/3/23	helical springs under axial pull and axial		1-718	To U and To
21		Springs in series and parallel	2	TB1, R6	Chalk and Ta
80	14/3/23	UNIT - III Columns and	Struts	6.47%	THE BEIN
	T .	Introduction - Types of columns - Short,	2	TB1, R6	Chalk and Tal
26	15/3/23	medium and long columns  Axially loaded compression members -	2	TB1, R6	Chalk and Tal
27	16/3/23	Crushing load Euler's theorem for long columns-	1	TB1, R6	Chalk and Tal
28	28/3/23	assumptions	2	TB1, R6	Chalk and Tall
29	29/3/22	Derivation of Euler's critical load formulae for various end conditions			Chalk and Talk
0	30/3/22	Equivalent length of a column – slenderness ratio	2	TB1, R6	The second second second second
1	4/4/23	Euler's critical stress – Limitations of Euler's theory	1	TB1, R6	Chalk and Talk
2	5/4/23	Rankine – Gordon formula	2	TB1, R6	Chalk and Talk
3		Long columns subjected to eccentric	2	TB1, R6	Chalk and Talk
14	6/4/23	loading - Secant formula Empirical formulae - Straight line	2	TB1, R6	Chalk and Talk
35	11 4 23	formula  - Prof. Perry's formula	1	TB1, R6	Chalk and Talk
	124/23	UNIT - IV Direct and Bendin	g Stresses	Contract of	principle -
12		Stresses under the combined action of	4	TB1, R6	Chalk and Talk
13	13/4/23	direct loading and B.M. Core of a section	2	TB1, R6	Chalk and Talk
14	18/4/22	Determination of stresses in the case of chimneys, retaining walls and dams	2		Chalk and Talk
15		Conditions for stability – stresses due to direct loading and B.M. about both axis.	2	TB1, R6	Chaik and Taik
	11 112122	UNIT - V Unsymmetrical Bending a	nd Shear C	entre	
53	1.1.	Un-symmetrical Bending: Introduction -	2	TB1, R6	Chalk and Talk
54	90 4 23	Centroidal principal axes of section Graphical method for locating principal	2	TB1, R6	Chalk and Talk
	25/4/23	axes - Moments of inertia referred to any set of rectangular axes			6.81
55	26/4/23	Stresses in beams subjected to unsymmetrical bending – Principal axes	2	TB1, R6	Chalk and Talk
56	27/4/23	Resolution of bending moment into two rectangular axes through the centroid	2	TBI, R6	Chalk and Talk
57	0/5/2	Location of neutral axis Deflection of	2	TB1, R6	Chalk and Talk
58	3 5 23	Shear Centre: Introduction Shear center for symmetrical and unsymmetrical	2	TB1, R6	Chalk and Talk
	1-1	sections (channel, I, T and L sections).	D-1	D.V.Rama Murt	





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# Text Books:

I. A Textbook of Strength of Materials, by R. K. Rajput, 7c (Mechanics of Solids) SI Units S. Chand 2. Strength of materials by R. K. Bansal, Lakshmi Publications.

# References

1. Mechanics of Materials- by R. C.Hibbler, Pearson publishers

2. Mechanics of Solids - E P Popov, Prentice Hall.

3. Strength of Materials by B.S.Basavarajaiah and P. Mahadevappa, 3rd Edition, Universities Press, 4. Mechanics of Structures Vol - 1 by H.J.Shah and S.B.Junnarkar, Charotar Publishing House Pvt. Ltd.

Signature of the Faculty

Signature of HOD

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Program: U.G Branch: Civil Engineering

Course :B.TECH Subject: DDRCS
Academic Year: 2022-23- (III Year | Semester) Faculty Name: K GAYATRI KIRAN

#### LESSON PLAN

Course Objectives: At the end of this course the student will be able to

- Work on different types of design methods
- · Carryout analysis and design of flexural members and detailing
- Design structures subjected to shear, bond and torsion
- . Design different type of compression members and footing

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
	Sept. 25	UNIT- I Design Met	hods	West SWA	Anna ana
1	1/2/23	Introduction - Working stress method: Elastic theory: design constants,	1	TB1, R2	Chalk and Talk
2	2/2/23	modular ratio, neutral axis depth and moment of resistance	1	TB1, R2	Chalk and Talk
3	3/3/23	Balanced sections, under reinforced, over reinforced sections	1	TB1, R2	Chalk and Talk
6	8/2/23	Design of singly reinforced beams	1	TB1, R2	Chalk and Talk
7	9/3/23	Design of doubly reinforced beams, IS Code Provisions.	1	TB1, R2	Chalk and Talk
8	10/2/23	Numerical Problems	2	TB1, R2	Tutorial
9	15 2 23	Limit State Design: Basic statistical principles	- 1	TB1, R2	*Chalk and Talk
10	16/2/23	Characteristic strength - Characteristic loads - Partial load and safety factors	1	TB1, R1	Chalk and Talk
11	14/2/22	Stress-strain curves for HYSD bars and MS bars	I-	TB1, R1	Chalk and Talk
12	22/2/23	Assumptions - stress block parameters, Moment of Resistance.	1	TB1, R1	Chalk and Talk
		TOTAL NO OF CLASSES	11		912357
		UNIT -II Design for Flexur	and Chass		141
13		Design of singly reinforced beams-	e and Shear	TDI DI	OL II. LEST
	23 2 23	effective depth,	I.	TB1, R1	Chalk and Talk
14	24/2/23	Moment of Resistance	1	TB1, R1	Chalk and Talk
15	1/3/23	Doubly reinforced and flanged (T) beams- Minimum depth	1	TB1, R1	Chalk and Talk
6	2/3/23	Minimum and Maximum Flexural Tension Reinforcement	1	TB1, R1	Chalk and Talk
7	3/3/23	Design of Flanged Sections (T & L)	1	TB1, R1	Chalk and Talk

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			1	TB1, R1	Chalk and Ta
8	45/22	Effective width of finise		TBI, RI	Chalk and Tal
D.	-	Analysis and Design Problems		11/1/2/2010	Chalk and Tal
n	10 3 22	Design for Show and Torsion: Analysis and design of sections for chear and	2	TB1, R4	
1		Rand, anchorage and development	1	TB1, R4	Chalk and Tal
2	153 23	length, 1.S. code provisions Design examples in simply supported	1	TB1, R4	Chalk and Tall
3	163 53	detailing. Design examples in continuous beams,	1	TB1, R4	Chalk and Talk
	14/3/23	detailing. Numerical Problems	2	TB1, R4	Tutorial
24	25/2/23	TOTAL NO OF CLASSES	14		Chalk and Talk
	2-3-2	UNIT - III Slabs and Servi	ceability		
-		Classification of slabs, design of one -	1	TB1, R4	Chalk and Talk
23	24/3/23	way slabs	- 1	TB1, R4	Chalk and Talk
26	13/23	one-way continuous slab using IS Coefficients (Conventional)	- 2	TB1, R4	Chalk and Talk
27	26/3/23	Design of two - way slabs	- 1		Chalk and Talk
28	31/3/23	Design of simply supported slabs and slabs with various edge conditions using IS Coefficients	2	TB1, R4	200 VEDERONIO
29	5/4/23	Design of Stair case	2	TB1, R4	Chalk and Talk
30	6423	Numerical Problems	2	TB1, R4	Tutorial
31	7/4/23	Limit state of serviceability: Deflection, cracking and IS code provisions for beams	1	TB1, R4	Chalk and Talk
31	7/4/23	Limit state of serviceability: Deflection, cracking and IS code provisions for slabs.	I.	TB1, R4	Chalk and Talk
32	e  4 23	Numerical Problems	2	TB1, R4	Tutorial
	11123	TOTAL NO OF CLASSES	13	7 7 7	
	-	UNIT - IV Design of Compression	on membe	rs	2010/07/
33	12/4/23	Effective length, Braced and un-braced columns	2	TB1, R1	Chalk and Talk
34	10/4/23	IS Code provisions, Design of short columns under axial loads	2	TBI, RI	Chalk and Talk
35	19/4/23	Design of long columns under axial loads	2	TB1, R1	Chalk and Talk
36	19/4/23	Numerical Problems	2	TB1, R1	Tutorial
37	204/23	Uniaxial bending	2	TBI, RI	Chalk and Talk
38	21/4/28	Biaxial bending (demonstration using SP 16)	2	TB1, R1	Chalk and Talk
39	21/4/23	Numerical Problems	2	TB1, R1	Tutorial





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Gajutarega, Vizlanagaram

		TOTAL NO OF CLASSES	14		
		UNIT -V Footing			W. 7
10	26/4/22	Types of footings	2	TBI, R4	Chalk and Talk
1	27/4/23	Design of isolated footings	2	TB1, R4	Chalk and Talk
2	28/4/23	Design of pedestal, square, rectangular subjected to axial loads	2	TB1, R4	Chalk and Talk
;	3/8/23	Design of circular footings subjected to axial loads	2	TB1, R4	Chalk and Talk
	415/23	Uni-axial bending moment	2	TB1, R4	Chalk and Talk
	5/5/22	Numerical Problems	2	TB1, R4	Tutorial
		TOTAL NO OF CLASSES	12		
		TOTAL NO OF CLASSES (ALL UNITS)	64		

## Text Books:

- 1. Limit State Design, A. K.Jain, Nem Chand Brothers
- 2. Reinforced Concrete Structures, N. Krishna Raju & R. N. Pranesh, and New Age Publications.
- 3. Structural Design and Drawing by N.Krishna Raju, Universities Press
- 1. R C C Design, B.C Punmia, A. K. Jain and A. K Jain. Lakshmi Publications
- Reinforced Concrete Structures, S. Unnikrishna Pillai &Devdas Menon, Tata C.Graw Hill, New Delhi.
- 3. Design of Reinforced concrete Structures, N.Subrahmanian, and Oxford University Press.
- 4. Limit state design of reinforced concrete structures by P C Varghese, PHI Learning pvt. Ltd

Signature of the Faculty

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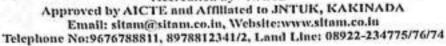
Principal

Satya Institute of Technology and Management (SITAM) Gajularega, Vizianagaram



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Branch: Mechanical Engineering Program: U.G Subject: DESIGN OF MACHINE MEMBERS-I Course : B.TECH Faculty Name: S.PRASANTH Academic Year: 2022-23 (111 Year 1 Sem)

LESSON PLAN

#### Course Objectives:

- 1) To understand the materials and their properties along with manufacturing considerations.
- 2) To gain knowledge about the strength of machine elements.
- 3) To understand and apply the knowledge in designing the riveted and welded joints, keys, cotters and knuckle joints.
- To understand and apply the knowledge in designing the shafts and shaft couplings.

s.NO	Proposed Date	Unit No. & Topics to be covered	Required No. Of Periods	Reference Text Books	Nature of Teaching
		UNIT-I:- INTRODUCT	TION		ATTEMEN
1		General considerations in the design	1	TB2,R3	Chalk & Talk
2	71700	Engineering Materials and their properties	1	TB2,R3	Chalk & Talk
3		Manufacturing consideration in design	1	TB2,R3	Chalk & Talk
4		tolerances and fits -BIS codes of steels- ASHBY Charts	1	TB2,R3	Chalk & Talk
5	MT.	Simple stresses – combined stresses	1	TB2,R3	Chalk & Talk
6	4	Impact stresses - stress strain relation,	1	TB2,R3	Chalk & Talk
7	100	Various theories of failure	2	TB2,R3	Chalk & Talk
8	70.5	Factor of safety - design for strength and rigidity	1	TB2,R3	Chalk & Talk
9	16.7.5	Preferred numbers-concept of stiffness in tension,	1	TB2,R3	Chalk & Talk
10	State 1	Bending, torsion and combined situations	1	TB2,R3	Audio-visual
11	35200	Static strength design based on fracture toughness.	1	TB2,R3	PPT
		Total No. of Classes	12	100	
	18 b	UNIT-II:- STRENGTH OF MACH	INE ELEME	NTS	
12		Stress concentration	2	TB2,R3	Audio-Visual
13		Theoretical stress concentration factor -	1	TB2,R3	Chalk & Talk
14		Fatigue stress concentration factor	1	TB2,R3	Chalk & Talk
15		Notch sensitivity,	1	TB2,R3	Chalk & Talk
16		Design for fluctuating stresses	1	TB2,R3	Chalk & Talk
	CHNOCOCK	Endurance limit – estimation of endurance strength	1	TB2,R3	Chalk & Talk
/18	102	Goodman's line	1	TB2,R3	Chalk & Talk
2021	181	Soderberg's line - modified apodman's	2	TB2,R3	PPT

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Ur.U.V.Rama murray
Principal
Princip Dr.D.V.Rama Murthy aya institute of technology and Management (SITAM) Management (SITAM) Gajularega, Vizianagaram



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Telephone No:9676788811, 8978812341/2, Land Line: 08922-234775/76/74



	line		-	No. of the Local
	Total No. of Classes	10		
	UNIT-III:- RIVETED AND WELD		S	
20	Introduction of riveted joints	1	TB2,R3	Audio- Visual
21	Design of Riveted joints with initial stresses—eccentric loading.	2	TB2,R3	Chalk & Talk
22	Introduction of welding joints	1	TB2,R3	Chalk & Talk
23	Design of welding joints with initial stresses—eccentric loading.	2	TB2,R3	Chalk & Talk
24	Design of bolts with pre-stresses	1	TB2,R3	Chalk & Talk
25	Design of bolt joints under eccentric loading	-1	TB2,R3	Chalk & Talk
26	tocking devices – both of uniform strength, different seals	2	TB2,R3	Chalk & Talk
27	Design of keys & stresses in keys	1	TB2,R3	Chalk & Talk
28	Design of cotter joint,	1	TB2,R3	Chalk & Talk
29	Design of spigot and socket-sleeve and cotter-jib and cotter joints	1	TB2,R3	Chalk & Talk
30	Design of knuckle joints.	1	TB2,R3	PPT
0.00	Total No. of Classes	14		
Control of the Control	UNIT-IV:- SHAFTS			
31	Introduction of shafts	1	TB2,R3	Audio-Visua
32	Design of solid and hollow shafts	1	TB2,R3	Chalk & Talk
33	Strength and rigidity of solid and hollow shafts	1	TB2,R3	Chalk & Talk
34	Design of shafts for combined bending and axial loads	1	TB2,R3	Chalk & Talk
35	Shaft sizes - BIS code	1	TB2,R3	Chalk & Talk
36	Use of internal and external circlips- gaskets and seals	2	TB2,R3	Chalk & Talk
37	Introduction of shaft coupling	1	TB2,R3	Chalk & Talk
38	Design of rigid coupling	2	TB2,R3	Chalk & Talk
39	Design of muff coupling	1	TB2,R3	Chalk & Talk
40	split muff and flange couplings	1		
41	Design of flexible couplings	2	TB2,R3	PPT
42	Design of Flange coupling	2	TB2,R3	Audio- Visua
43	Problems of couplings	1	TB2,R3	Chalk & Talk
44	Problems	1	TB2,R3	Chalk & Tail
45	Design of flange coupling (modified).	1	TB2,R3	Chalk & Talk
	Total No. of Classes	19	(7.7)	
	UNIT-V:- MECHANICAL		1 7000	1 1 11 11
46	Introductions of mechanical springs	2	TB2,R3	Audio- Visua
47	Stresses of helical springs	2	TB2,R3	Chalk & Tall
48	Deflections of helical springs	1	TB2,R3	Chalk & Tall
49	Extension springs	1	TB2,R3	Chalk & Tall

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Dr.D.V.Rama Murthy

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50	Compression	all the beautiful and	and the second are	
51	Compression springs	2	TB2,R3	Chalk & Talk
52	Springs for fatigue loading	1	TB2,R3	Chalk & Talk
53	Energy storage capacity	2	TB2,R3	Chalk & Talk
54	Helical torsion springs	1	TB2,R3	PPT
55	co-axial springs	2	TB2,R3	Chalk & Talk
00	Leaf springs	2	TB2,R3	PPT
- Pro	Total No. of Classes	12		
10	otal No. of Classes for all units	72		International real

#### TEXT BOOKS:

- 1. Machine design / NC Pandya & CS Shah/Charotar Publishing House Pvt. Limited
- 2. Machine Design/V.B.Bhandari/ McGraw-Hill Education

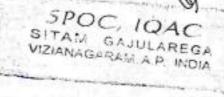
#### REFERENCES:

- 1. Design of Machine Elements / V.M. Faires/McMillan
- 2. Machine design / Schaum Series/McGraw-Hill Professional
- 3. Machine Design/ Shigley, J.E/McGraw Hill.
- 4. Design data handbook/ K.Mahadevan & K. Balaveera Reddy/ CBS publishers.
- 5. Machine Design -Norton/ Pearson publishers

Signature of the Faculty

Signature of HOD (MECH)

Dr.D.V.Rama Murthy Satya Institute of fe-thnology and Management (SITAM) Gajularega, Vizianagaram







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Academic Year	: 2022-23 (IV Year I Semester)	Faculty Name	: Jagadish K E
Course	: B.TECH	SubJect	: Finite Element Methods
Program	; U.G	Branch	: Mechanical Engineering

#### **LESSON PLAN**

#### Course Objectives:

- 1. To learn basic principles of finite element analysis procedure
- 2. To learn the theory and characteristics of finite elements that represent engineering structures
- 3. To learn and apply finite element solutions to structural, thermal and dynamic problems.
- 4. Learn to model complex geometry problems and solution techniques.

S No	Proposed Date	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
		Unit 1: Introduction to Finite E	lement Met	nods	
1		Introduction to finite element method	1	TB1, R2	Chalk and Talk, PPT
2		Stress and equilibrium	1	TB1, R2	Chalk and Talk
3		Strain – displacement relations	1	TB1, R2	Chalk and Talk
4		Stress- strain relations	1	TB1, R2	Chalk and Talk
5		Plane stress and plane strain conditions	1	TB1, R2	Chalk and Talk, PPT
6		Variational and weighted residual methods	1	TB1, R2	Chalk and Talk, PPT
7		Concept of potential energy	1	TB1, R2	Chalk and Talk
8		One dimensional problem's.	4	TB1, R2	Chalk and Talk, PPT
9	200	Discretization of domain, Element shapes	1	TB1, R2	Chalk and Talk, PPT
10	inthis c	Discretization procedures, Assembly of stiffness matrix,	1	TB1, R2	Chalk and Talk, PPT
11	W 12	Band width, Node numbering	1	TB1, R2	Chalk and Talk, PPT
12		Mesh generation, Interpolation functions	1	TB1, R2	Chalk and Talk, PPT
13		Local and global coordinates, Convergence requirements	1	TB1, R2	Chalk and Talk, PPT
14	74	Treatment of boundary conditions.	1	TB1, R2	Chalk and Talk, PPT
otal N	umber of Cl	asses	14		1, 1
		Unit 2: analysis of Trusse	s & Beams	THE ST	43.00
15		Finite element modeling, coordinates and shape functions	1	TB1, R2	Chalk and Talk



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16	Assembly of global stiffness matrix and load vector	2	TB1, R2	Chalk and Talk
17	Finite element equations	2	TB1, R2	Chalk and Talk
18	Treatment of boundary conditions	2	TB1, R2	Chalk and Talk
19	Stress, strain and support reaction calculations.	1	TB1, R2	Chalk and Talk
20	Element stiffness matrix for hermite beam element	2	TB1, R2	Chalk and Talk
21	Derivation of load vector for concentrated and UDL	2	TB1, R2	Chalk and Talk
22	Simple problems on beams.	2	TB1, R2	Chalk and Talk
Total Numbe	r of Classes	14	- 4	100
CO HVG	Unit 3: CST & Axis-Symmetri	c Elemen	ts	276 14
23	Finite element modeling of two dimensional stress analysis with constant strain triangles and	3	TB1, R2	Chalk and Talk
24	Treatment of boundary conditions	3	TB1, R2	Chalk and Talk
25	Formulation of axisymmetric problems.	3	TB1, R2	Chalk and Talk
Total Numbe		9		
TOTAL INGILIDE	Unit 4: Higher Order and Iso-parar	metric Ele	ments	
26	One dimensional quadratic and cubic elements in natural coordinates	3	TB1, R2	Chalk and Talk
27	Two dimensional four noded iso-parametric	3	TB1, R2	Chalk and Talk
28	elements  Numerical integration.	3	TB1, R2	Chalk and Talk
Total Numbe		9	E 20	
TOTAL TITLE	Unit 5: Steady state heat transfer &	Dynamic	Analysis	
29	One dimensional analysis of a fin	2	TB1, R2	Chalk and Talk
30	Two dimensional analysis of thin plate	2	TB1, R2	Chalk and Talk
31	Analysis of a uniform shaft subjected to torsion.	2	TB1, R2	Chalk and Talk
32	Formulation of finite element model	1	TB1, R2	Chalk and Talk
33	Element consistent and lumped mass matrices	2	TB1, R2	Chalk and Talk
	Evaluation of eigen values and eigen vectors	2	TB1, R2	Chalk and Talk

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35	Free vibration analysis.	2	TB1, R2	Chalk and Talk
Total Numb	er of Classes	13	1. 4	
Total Numb	er of Classes for all units	59	20 0	Paga

#### Course outcomes:

Upon successful completion of this course you should be able to:

- 1. Understand the concepts behind variational methods and weighted residual methods in FEM
- 2. Identify the application and characteristics of FEA elements such as bars, beams, plane and iso-parametric elements, and 3-D element.
- 3. Develop element characteristic equation procedure and generate global equations.
- 4. Able to apply Suitable boundary conditions to global equations, and reduce it to a solvable form.
- Able to apply the FE procedure to field problems like heat transfer.

#### Text Books:

- The Finite Element Methods in Engineering / SS Rao / Pergamon.
- 2. Introduction to Finite Elements in Engineering/ Tirupathi R. Chandrupatla, Ashok D. Belegundu, Pearson Publishers.

#### References:

- Finite Element Method with applications in Engineering / YM Desai, Eldho & Shah /Pearson publishers
- 2. An introduction to Finite Element Method / JN Reddy / McGraw Hill

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3. The Finite Element Method for Engineers – Kenneth H. Huebner, Donald L. Dewhirst, Douglas E. Smith and Ted G. Byrom / John Wiley & sons (ASIA) Pte Ltd

Signature

Dr.D.V.Rama Murthy

Satya Institute of Technology and Management (SITAM) Gajularega, Vizianagaram





# SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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(Permanently Affiliated to INTUGV, Vizianagaram, Recognized by SBTET, Government of A.P.) Email: principal@sitam.co.in, Website:www.sitam.co.in, Face Book: /Sitam.Sgvp, Instagram:/sitamvzm Telephone No:9676788811, 8978812341/2

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### **LESSON PLAN**

Academic Year: 2022-23

Batch: 2019-23

Course Code: R20

Name of the Subject: DIGITAL SIGNAL PROCESSING

Name of the Faculty: V.N. Sireesha

Year-Semester-Branch: III-II-ECE

Text Books

1)Digital Signal Processing ,Principles,Algorithms and Applications;Jphn G.Proakis, Dimirits G.manolakis,Pearson Education/PHI,2007 2) Discrete Time Signal Processing-A.V.Oppehnhiem and TR.W.Scaffer, PHI

#### REFERENCES:

1)Digital Signal Processing: Andreas Antoniou, Tata McGraw Hill , 2005

2)DSP Primer-C.Britton Rorabaugh,tata McGraw Hill, 2005: MH Hayes, Schaum's Outlines, TATA McGraw Hill, 2007. 3)Digital Signal Proc

Name	Name of the Topic	No of classes Required	Text Book/Reference	Mode of Teaching
	Introduction to Digital Signal Processing	1	T1 & R1	PPT
	Discrete time signals & sequences	2	T1 & R1	Chalk & Talk
UNIT-I	Classification of Discrete time systems , stability of LTI systems, Invertability	2	T1 & R1	Chalk & Talk
INTRODUCTION	Response of LTI systems to arbitrary inputs, Solution of Linear constant coefficient difference equations	2	T1 & R1	Chalk & Talk
	Frequency domain representation of discrete time signals and systems	1	T1 & R1	Chalk & Talk
	Review of Z-transforms, solution of difference equations using Z- transforms, System function.	4	T1 & R1	Chalk & Talk
	Total classes to complete UNIT-I	12		
	Properties of discrete Fourier series	2	T2 & R2	Chalk & Talk
UNIT-II DISCRETE	DPS representation of periodic sequences	1	T2 & R2	Chalk & Talk
FOURIER SERIES &	Discrete Fourier transforms. Properties of DFT	2	T2 & R2	Chalk & Talk
FOURIER TRANSFORMS	Linear filtering methods based on DFT	2	T2 & R2	Chalk & Talk
	Fast Fourier transforms (FFT) - Radix-2 decimation in time FFT Algorithm	2	T2 & R2	Chalk & Talk
	Radix-2 decimation in frequency FFT Algorithm, Inverse FFT	4	T2 & R2	Chalk & Talk
19-11-11-11	Total classes to complete UNIT-II	13	ALT THE RES	1000



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otal classes to	complete DSP all Units	65		
100	Total classes to complete UNIT-V	14		
	Parallel Logic Unit, Memory mapped registers, Program controller, On- chip registers, On-chip peripherals.	2	T1 & R3	Chalk & Talk
	Architecture of TMS 320C5X,Bus Structure,Central ALU,Auxliury Register ALU	2	T1 & R3	Chalk & Talk
LICESSORS	Special addressing modes ,On-Chip Peripherals	2	T1 & R3	Chalk & Talk
TO DSP PROCESSORS	VLSf architecture, Pipelining	2	T1 & R3	Chalk & Talk
UNIT-V INTRODUCTION	Multiple access memory , Multiport memory	2	T1 & R3	Chalk & Talk
	Modified Bus Structures and Memory Access schemes in DSP's	1	T1 & R3	Chalk & Talk
	Multiplier and Multiplier Accumulator (MAC)	1	T1 & R3	Chalk & Talk
	Introduction to programmable DSP's	2	T1 & R3	Chalk & Talk
	Total classes to complete UNIT-IV	13		
	Basic structures of FIR systems, Lattice structures, Lattice-ladder structures	3	T1 & R2	Chalk & Talk
UNIT-IV DESIGN OF FIR DIGITAL FILTERS& REALIZATIONS	Comparison of IIR & FIR filters	2	T1 & R2	Chalk & Talk
	Design of FIR Digital Filters using Proquency Sampling technique,	2	T1 & R2	Chalk & Talk
	Design of FIR Digital Filters using Window Techniques	3	T1 & R2	Chalk & Talk
	Characteristics of FIR Digital Filters, frequency response	3	T1 & R2	Chalk & Talk
C. Line	Total classes to complete UNIT-III	13		
	Basic structures of IIR systems, Transposed forms	3	T2 & R1	Chalk & Talk
REALIZATIONS	Analog and Digital frequency transformations	2	T2 8. R1	Chalk & Talk
DIGITAL FILTERS&	Design Framples	2	T2 & R1	Chalk & Talk
UNIT-III DESIGN OF IIR	Design of IIR Digital filters from analog filters	3	T2 & R1	Chalk & Talk
	Analog filter approximations - Butter worth and Chebyshev	3	T2 & R1	Chalk & Talk

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Signature of HOD

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#### **LESSON PLAN**

Name of the Subject: ANALOG COMMUNICATIONS

Name of Faculty: V.SIRISHA

Year-Semester-Branch: II-II-ECE

#### Text Books:

- Text Books:

  1. Precides of Communication Systems—HTaub&D Schilling, GautamSahe, TMH, 3rd Edition, 2007.

  2. Precides of Communication Systems-Stron Haykin, John Wiley, 2nd Edition, 2007.

  3. Modern Digital and Antifog Communication Systems—B P. Lathi, Zhi Ding, Harl Mohan Gupta, Oxford University Press, 4th Edition, 2017.

#### REFERENCES:

Electronics & Communication System- George Kennedyand Bernard Davis, TMH 2004.

- Communication Systems -R.P. Singh, SP Sapre, Second Edition TMH, 2007.
   Electronic Communication systems—Tomasi, Pearson, fourth Edition, 2007.

UNIT No & Name	Name of the Topic	No of classes Required	Date(s)	Text Book- Reference	Comments
	Introduction To Communication System	1		T1 & R3	Chalk & Talk
3.3	Need For Modulation	31		T1 & R3	Chalk &Talk
	Proquency Division Multiplexing	1		T1 & R3	Chalk &Talk
	Amplitude Modulation , Definition	1	200	T1 & R3	Chalk &Talk
	Time Domain And Frequency Domain Description	1	151	T1 & R3	Chalk &Talk
UNIT4-	Single Tono Modulation, Power Relations In AM Waves	1		T1 8 R3	Chalk & Talk
MODULATION	Generation Of AM Waves	- 1	7-3-2022 to19-3-2022	T1 & R3	Chalk &Talk
	Square Law Modulator	1	Automorphic of	T1 & R3	Chalk & Talk
	Switching Modulator	1	And State of	T1 & R3	Chalk & Talk
	Desection Of AM Waves	1		T1 & R3	Chalk & Talk
E. C.	Square Law Detector	1		T1 & R3	Chalk & Talk
10.7	Envelope Detector	1		T1 & R3	Chalk &Talk
		12	100 mm	1	
	Double side band suppressed carrier modulators	1		T1 & R3	Chalk &Talk
1	Time domain and frequency domain description	1		T1 & R3	Chalk &Talk
	Generation of DSBSC Waves, Balanced Modulators			T1 8 R3	Chalk &Talk
	Ring Modulator	1		T1 & R3	Chalk &Talk
	Coherent detection of DSB-SC Modulated waves, COSTAS Loop	- 1		T1 & R3	Chalk &Talk
	Frequency domain description, Frequency discrimination method for generation of AM SSB Modulated Wave	1		T1 & R3	Chalk & Talk
21027	Time domain description	1	22 1 3 200 102 1 1 1 1 1 1 1 1 1	T1 & R3	Chalk & Yalk
JNIT-II- DSB & SSB	Phase discrimination method for generating AM SSB Modulated waves	1	21-3-2022 to 9-4-2022	T1 & R3	Chalk &Talk
MODULATION	Demodulation of SSB Waves	1	and the same of	T1 & R3	Chalk &Talk
	Vestigial side band modulation	1	1000	T1 & R3	Chalk & Talk
0.00	Time domain description, Frequency description	1	127	T1 & R3	Chalk & Talk
	Generation of VSB Modulated wave, Envelope detection of a VSB Wave pulse Carrier	2		T1 & R3	Chalk &Talk
(FINDLO)	Comparison of AM techniques, Applications of different AM Systems	1		T1 & R3	Chalk &Talk
1		1.4		T1 & R3	Chalk &Talk
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n	asic concepts, Frequency Modulation	,		T1 & R3	Chalk &Talk
- Inch	ingle tone frequency modulation, Spectrum Analysis of Simsoidal FM		100	TAX SECTION	With the second
V	Vove	1		T1 & R3	Chalk &Talk
-	Sarrow band FM, Wide band FM	1	100 V V V V V V V V V V V V V V V V V V	T1 & R3	Chalk &Talk
	Constant Average Power	1	0.000	T1 & R3	Chalk &Talk
JIII ANKEL E.	Imnsmission bandwidth of FM Wave	1	11-4-2022 to23-4-2022	T1 & R3	Chalk & Talk
DULATION	Generation of FM Waves	1	******	T1 & R3	Chalk & Tall
	Detection of FM Waves	1		T1 & R3	Chalk &Tall
188	Balanced Frequency discriminator	1	4 30	T1 & R3	Chalk &Tall
	Zero crossing detector,Comparison of FM & AM	1		T1 & R3	Chalk &Tall
1	Phase locked loop	1		T1 & R3	Chalk &Tall
	a mark weeks meep	10			
187	Radio Transmitter, Classification of Transmitter	2	226236	T1 & R3	Chalk &Tall
	AM Transmitter	1		T1 & R3	Chalk &Tal
	Effect of feedback on performance of AM Transmitter	AM Transmitter 1		T1 & R3	Chalk &Tal
	FM Transmitter	1	13 150	T1 & R3	Chalk &Tall
	Variable reactance type and phase modulated FM Transmitter	1	12.2. 10.1	T1 & R3	Chalk &Tal
UNIT-IV- TRANSMITTE S & RECEIVERS	Frequency stability in FM Transmitter	1		T1 & R3	Chalk &Tal
	Radio Receiver, Receiver Types, Tuned radio frequency receiver	1	2-5-2022 to 21-5-2022	T1 & R3	Chalk &Tal
	Super beterodyne receiver, RF section and Characteristics	1		T1 & R3	Chalk &Tal
	Frequency changing and tracking, Intermediate frequency, AGC	1	ALCTO FO	T1 & R3	Chalk &Tal
	FM Receiver, Comparison with AM Receiver, Amplitude limiting	2		T1 & R3	Chalk &Tal
	Communication Receivers	1		T1 & R3	Chalk &Tal
	Extensions of super heterodyne principle and additional circuits	2			
		15	The Part of the	T1 & R3	Chalk & Tal
	Review of noise and noise sources, noise figure	-1	WE WELL	T1 & R3	Chalk &Tal
	Noise in Analog communication System	2	Thought and the	T1 & R3	Chalk & Tall
13	Noise in DSB& SSB System	2		T1 & R3	Chalk &Tal
	Noise in AM System	1	2 7500	T1 & R3	Chalk &Tal
	Noise in Angle Modulation System	-1		T1 & R3	Chalk &Tal
	Threshold effect in Angle Medulation System	. 1		T1 & R3	Chalk &Tal
UNIT-V-NOIS	SE	1	23-5-2022 to 4-6-2022	T1 & R3	Chalk &Tal
MODULATIO	A CONTRACTOR OF THE CONTRACTOR	1		T1 & R3	Chalk &Tal
N. Kida	PAM (Single polarity, double polarity)	1	123-231 19	T1 & R3	Chalk &Ta
	PWM: Generation & demodulation of PWM	1		T1 & R3	Chalk &Ta
	PPM, Generation and demodulation of PPM,	1	To de la co	T1 & R3	Chalk &Ta
	Time Division Multiplexing	- 1	THE RESERVE	T1 & R3	Chalk & Ta
	TDM Vs FDM	1		T1 & R3	Chalk &Ta
	1	15			
	Total Classe	67	L 0	DA .	1 - 3

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	-	asheddd Fannsaw dei yn approaches	1	CHAIRATAIR	T1.R3
	40	Invested Financiae desegrating process	1	CHAIRATAIR	11.302
1			1	PRINSNIATRIN	T1.12.9(2
-	AND THE RESERVE OF THE SECOND	SK anoge Jeranys source	1	CRUKETNE	71,R1,R2
THE PERSON NAMED IN	FIRMW ARE DESIGN	Interrupt servicing resolutions	1	CHAIR A TALK	11.72.82
- Ink	-3-67	Multiple interrupts		PRESENTATION	T1.R1
-		Coxpr of DMA, DMA Coensiler	- 1	CHALKATAIK	T1.R2
4		Device driver programming	2	PRESENTATION	TLRI
		Concepts of C versus Embedded C and Compiler versus Cross-compiler	11		
		Total Classes required to complete UNIT-III	1	CHAIR & TALE	T1.R2
		Operating system basics. Types of operating systems	1	CHALK & TALK	T2.R2
		Tasks and Multitaking	1	CHAIR & TAIK	T1.R1
8		Process and Threads, Multiprocessing		CHALK & TALK	T1,R1,R2
0		Threads, Processes and Scheduling, Task Scheduling	2	CHALK & TALK	TLSI
o UNI	IT-IV REAL TIME	The state of the s	t	CHALKATAIK	TLRLR2
1	OPERATING SYSTEM		. 1		T2.R2
12		How to choose an KTOS Hardware Software Co-Design: Fundamental Issues in transverse Software Co-Design.	1	CHALKATAIK	TLRLRI
13		Computational models in embedded design	1.	CHALK & TALK	
14		Hardware software Trade-offs	1	COLEATAIR	T1,R1
35		Integration of Hardware and Firmware, Concept of ICE.	2	CHALK & TALK	TLRLR2
	ALC: N	Total Classes required to complete UNIT-IV	12		
36		The integrated development environment	1	CRALE & TALE	TLRI
27		Types of files penerated on cross-compilation	1	CHAIRETAIR	T2.R2
			1	CHALK & TALK	T1.T2.R1
38		Descender Decompiler	1	CHALKATALK	TLRI
39		Simulators, Emulators and Debugging	.1	CHALS & TALK	TLR2
	NIT-V EMBEDDED SYSTEM	Tarps hardware debugging	1	CHALKATALK	T2,R2
	DEVELOPMENT	Embedded Software development process and tools.	1	CHALE & TALK	TLRLR2
-	AND TESTING		1	CHALK & TALK	T1.R2
43		Debugging tools	1	CSIALS & TALE	T1,T2,R2
47		Quality assurance and testing of the design	1	ZATAZIAID	TLRI
48		Testing on bost machine	1	CHALK & TALK	T1,T2
49		Simulators used in embedded systems	1	CHALK & TALK	T1,R1,R2
50		Laboratory Tools in embedded systems	12		
	CL RIFE	Total Classes required to complete UNIT-V			
	Service of	Total Classes required to complete all UNITS	55		

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Program: U.G Course : B.TECH	Branch: Computer Science & Engineering
Academic Year:2022-23 (I Year II Semester)	Subject: Computer Organization
(I Year II Semester)	Faculty Name: I.Gayathri

## Course Objectives:

- To instruct the concept of matrices in solving linear algebraic equations
- To elucidate the different numerical methods to solve non-linear algebraic equations
- To disseminate the use of different numerical techniques for carrying out numerical
- To equip the students with standard concepts and tools at an intermediate to advanced level mathematics to develop the confidence and ability among the students to handle various real world problems and their applications

S. No	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
	Unit 1		- DOORS	
1	Introduction ,Numbering Systems	1	TB1, R2	Chalk and Talk, PPT
2	Decimal to Binary Conversion, Binary Coded Decimal Numbers	2	TB1, R2	Chalk and Talk, PPT
3	Weighted Codes, Self- Complementing Codes,	1	TB1, R2	Chalk and Talk, PPT
4	Cyclic Codes, Error Detecting Codes,	1	TB1, R2	Chalk and Talk, PPT
5	Error Correcting Codes, Hamming Code for Error Correction, Alphanumeric Codes, ASCII Code Two- level realizations using gates: AND- OR, OR-AND, NAND-NAND and NOR- NOR structures	2	T81, R2	Chalk and Talk, PPT
6	Data Representation: Data types, Complements, Fixed Point Representation, Floating Point Representation.	1	TB1, R2	Chalk and Talk, PPT
7	Boolean Algebra and Logical gates: Boolean Algebra :Theorems and properties, Boolean functions, canonical and standard forms	2	TB1, R2 Dr.D.V.Rami Princit a Institute of T	Chalk and

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otal	Number of Classes :	13		nama Mushi
23	Computer instructions, Timing and Control, Instruction cycle,	1	TB1, R2	Chalk and Talk, PPT
22	Shift and rotate micro-operations	2	TB1, R2	Chalk and Talk, PPT
21	Register Transfer language and microinstructions: Bus memory transfer, arithmetic and logical micro-operations	2	TB1, R2	Chalk and Talk, PPT
20	Floating – point Arithmetic operations.  Basic Computer Organization and  Design: Stored program concept, computer Registers, common bus system,	1	TB1, R2	Chalk and Talk, PPT
19	Division Algorithms	2	TB1, R2	Chalk and Talk, PPT
18	Booth multiplication algorithm	2	TB1, R2	Chalk and Talk, PPT
17	Multiplication Algorithms, Memory Reference Instructions, Input-Output configuration and program Interrupt.	1	TB1, R2	Chalk and Talk, PPT
16	Computer Arithmetic: Addition and subtraction	2	TB1, R2	Chalk and Talk, PPT
	UNIT 3	o-dian I		III.
Total	Number of Classes :	11	ATTE	
15	Synchronous counters: Shift Registers	1	TB1, R2	Chalk and Talk, PPT
14	Ripple counters using T flip-flops; Ring counters	2	TB1, R2	Chalk and Talk, PPT
13	Sequential Switching Circuits: Latches and Flip- Flops	2	TB1, R2	Chalk and Talk, PPT
12	Multiplexers, De- multiplexers, Decoders	1	TB1, R2	Chalk and Talk, PPT
11	Multi-bit adder	2	TB1, R2	Chalk and Talk, PPT
10	Implementation using universal gates	2	TB1, R2	Chalk and Talk, PPT
9	Digital logic circuits: Combinatorial Circuits: Introduction, Combinatorial Circuit Design Procedure	1	TB1, R2	Chalk and Talk, PPT
-	Unit 2			
Total	Number of Classes :	12	7 7 7	
8	Minimization of Boolean functions using algebraic identities; Karnaugh map representation and minimization using two and three variable Maps; Logical gates ,universal gates	2	TB1, R2	Chalk and

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97.	Minus Unit 4		70 - 77 -	-
24	Microprogrammed Control: Control memory, Address sequencing	1	TB1, R2	Chalk and
25	Microprogram example,	1	TB1, R2	Chalk and Talk, PPT
26	Design of control unit	1	TB1, R2	Chalk and Talk, PPT
27	Central Processing Unit: General Register Organization	1	TB1, R2	Chalk and Talk, PPT
28	Instruction Formats	1	TB1, R2	Chalk and Talk, PPT
29	Data Transfer and Manipulation	2	TB1, R2	Chalk and Talk, PPT
30	Addressing modes	2	TB1, R2	Chalk and Talk, PPT
31	Program Control: conditional Flags and Branching	1	TB1, R2	Chalk and Talk, PPT
32	Data Transfer and Manipulation, Program Control: conditional Flags and Branching	2	TB1, R2	Chalk and Talk, PPT
Total	Number of Classes :	12		rung r r i
	Unit 5			L. T. TYC
33	Memory Organization: Memory Hierarchy	2	TB1, R2	Chalk and Talk, PPT
34	Main Memory	1	TB1, R2	Chalk and Talk, PPT
35	Auxiliary memory,	2	TB1, R2	Chalk and Talk, PPT
36	Associate Memory, Cache Memory	2	TB1, R2	Chalk and Talk, PPT
37	Input-Output Organization: Input-Output Interface	1	TB1, R2	Chalk and Talk, PPT
38	Asynchronous data transfer,	2	TB1, R2	Chalk and Talk, PPT
39	Modes of Transfer	2	TB1, R2	Chalk and Talk, PPT
40	Priority Interrupt Direct memory Access.	1	TB1, R2	Chalk and Talk, PPT
41	Revision	2	C ISL C	
42	Revision	2		
	Number of Classes :	17		
iotal	Number of Classes for all units :	65		

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### Text Books:

- Digital Logic and Computer Design, Morris Mano, 11th Edition, Pearson Education.
- Computer System Architecture, 3 Edition, M.MorrisMano, PHI

PERMAGARAM

### Reference Books:

- Digital Logic and Computer Organization, Rajaraman, Radhakrishnan, PHI, 2006
  - Computer Organization, 5 Edition, Hamacher, Vranesic and Zaky, TMH, 2002

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Program	:U.G		
Course		Branch	: Computer Science & Engineering
Course	:B.TECH		
Academic Year	:2022-23 (II Year II Semester)		: Data Warehousing & Data Mining
	To the real in Seriester)	Faculty Name	: M.Madhu Babu
Tours Ohio at	LESSO	N PLAN	

### Course Objectives:

- To understand and implement classical models and algorithms in data warehousing and data mining.
- To analyze the data, identify the problems, and choose the relevant models and algorithms to apply.
- To assess the strengths and weaknesses of various methods and algorithms and to analyze their behavior.

S. No	Unit No. & Topics to be covered	Required No. of Periods	Reference Text Books	Nature of Teaching
	UNIT I: Data Warehouse and OI	H. C. C. A. C. C. P. C. C. C. C.	v	
1	An Overview of DW	2	TB2, R4	Chalk and Talk, PPT
2	Phases of OR study, Operation research models	1	TB2, R4	
3	A Multidimensional Data Model	2	TB2, R4	Chalk and Talk, PPT
4	Data Warehouse Architecture	1	TB2, R4	Chalk and Talk, PPT
5	Data Warehouse Implementation	2	TB2, R4	Chalk and Talk, PPT
6	From Data Warehousing to Data Mining	1	TB2, R4	Chalk and Talk, PPT
7	Data Warehouse Advantages	2	TB2, R4	Chalk and Talk, PPT
8	Data Warehouse Characteristics	1	TB2, R4	Chalk and Talk, PPT
9	Data Warehouse Functionalities	2	TB2, R4	Chalk and Talk, PPT
10	Data Warehouse Implementation	1	TB2, R4	Chalk and Talk, PPT
11	Data Model overview	2	TB1, R4	Chalk and Talk, PPT
12	Data Model Applications	1	TB1, R4	Chalk and Talk, PPT
otal N	lumber of Classes	18	101, 14	Chalk and Talk, PPT
	Unit 2: Introduction to Data			
13	Introduction	2	T02 02	et 11
4	Data Mining, Motivating challenges		TB2, R3	Chalk and Talk, PPT
5	Data Mining Advantages	1	TB2, R3	Chalk and Talk, PPT
6	The origins of Data Mining	2	TB2, R3	Chalk and Talk, PPT
7	Data Mining Tasks	1	TB2, R3	Chalk and Talk, PPT
8	Types of Data, Data Quality	2	TB2, R3	Chalk and Talk, PPT
9	Data Pre processing: Aggregation	1	TB2, R3	Chalk and Talk, PPT
0	Sampling, Dimensionality Reduction	2	TB2, R3	Chalk and Talk, PPT
	Feature Subset Selection, Feature creation	1	TB2, R3	Chalk and Talk, PPT
	reactive Subject Selection, reacture creation	- 2	TB2, R3	Chalk and Talk, PPT
	Discretization and Binarization, Variable Transformation, Measures of Similarity and Dissimilarity. (Tan & Vipin)	2	TB2, R3	Chalk and Talk, PPT
	mber of Classes			

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Gajularega, Viziaria garam

23	Basic Concepts Unit 3: Data Mining Classic	fication		
24	The state of the s	1	TB2, R7	Chalk and Talk, PPT
25	Approach to solve a classification problem	1	TB2, R7	Chalk and Talk, PPT
25	Working of Decision Tree	2	TB2, R7	Chalk and Talk, PPT
26	Building a decision tree, methods for expressing an attribute test conditions	2	TB2, R7	Chalk and Talk, PPT
27	Measures for selecting the best split, Algorithm for decision tree induction	2	TB2, R7	Chalk and Talk, PPT
28	Model Overfitting: Due to presence of noise	1	TB2, R7	
29	Due to lack of representation samples	2	TB2, R7	Chalk and Talk, PPT
30	Evaluating the performance of classifier: holdout method	1	TB2, R7	Chalk and Talk, PPT Chalk and Talk, PPT
31	Random sub sampling	2	70000000	
32	Bayes Theorem, Naïve Bayes Classifier		TB2, R7	Chalk and Talk, PPT
Total	Number of Classes	2	TB2, R7	Chalk and Talk, PPT
		16		
33	Basic Concepts and Algorithms			1
34	Problem Definition	2	TB2, R4	Chalk and Talk, PPT
35	Frequent Item Set Generation	1	TB2, R4	Chalk and Talk, PPT
36	Frequent Item Set Generation Applications	2	TB2, R4	Chalk and Talk, PPT
37	Apriori Principle	1	TB2, R4	Chalk and Talk, PPT
38	Apriori Algorithm	2	TB2, R4	Chalk and Talk, PPT
39	Rule Generation	1	TB2, R4	Chalk and Talk, PPT
40	Compact Representation of Frequent Itemsets	2	TB2, R4	Chalk and Talk, PPT
41	FPGrowth Algorithm	1	TB2, R4	Chalk and Talk, PPT
42	Apriori Algorithm Problems	2	TB2, R4	Chalk and Talk, PPT
43	Apriori Principle Problems	1	TB2, R4	Chalk and Talk, PPT
44	Problems on Rule Generation	2	TB2, R4	Chalk and Talk, PPT
45	FPGrowth Algorithm Applications	1	TB2, R4	Chalk and Talk, PPT
	Number of Classes	2	TB2, R4	Chalk and Talk, PPT
		13		
46	Basic Concepts and Algorithms: Overview,	-	1	
47	Cluster Analysis, Different Types of Clustering	1	TB1, R4, R3	Chalk and Talk, PPT
48	K-means: The Basic K-means Algorithm	2	TB1, R4, R3	Chalk and Talk, PPT
49	K-means Strengths and Weaknesses	1	TB1, R4, R3	Chalk and Talk, PPT
50	Bisecting K-means,	1	TB1, R4, R3	Chalk and Talk, PPT
51	Agglomerative Hierarchical Clustering	1	TB1, R4, R3	Chalk and Talk, PPT
52	Clustering Algorithm DBSCAN	1	TB2, R4, R3	Chalk and Talk, PPT
53	Traditional Density Center-Based Approach	2	TB2, R4, R3	Chalk and Talk, PPT
54	DBSCAN Algorithm	1	TB2, R4, R3	Chalk and Talk, PPT
55		1	TB2, R4, R3	Chalk and Talk, PPT
56	K-Mean Strengths and Weaknesses Problems on DBSCAN Algorithm	1	TB2, R4, R3	Chalk and Talk, PPT
	Number of Classes	1	TB2, R4, R3	Chalk and Talk, PPT
-	Number of Classes for all units	12		
OLGI P	vulnber of Classes for all units	75		

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### Text Books:

- Introduction to Data Mining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Fifth Impression, Pearson, 2015.
- 2. Data Mining concepts and Techniques, 3rd Edition, Jiawei Han, Michel Kamber, Elsevier, 2011

### References:

- 1. Data Mining Techniques and Applications: An Introduction, Hongbo Du, Cengage Learning, 2010
- 2. Data Mining: Introductory and Advanced topics: Dunham, First Edition, Pearson, 2020
- 3. Data Warehousing Data Mining & OLAP, Alex Berson, Stephen Smith, TMH, 2008
- Data Mining Techniques, Arun K Pujari, Universities Press, 2001

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VIZIANASARAM HANGE

Dr.D.V.Rama Murthy

Dr.D.V.Rama Murthy

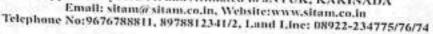
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Program: UG Course : B.TECH.

Branch: Computer Science & Engineering (AI&DS)

Subject: Operating Systems

Academic Year: 2022-23 (III YEAR I SEM)

Faculty Name: G Sridhar

LESSON PLAN

### Course Objectives:-

Introduce to the internal operation of modern operating systems x

- Define, explain, processes and threads, mutual exclusion, CPU scheduling, deadlock, memory management, and file systems x
- Understand File Systems in Operating System like UNIX/Linux and Windows x
- Understand Input Output Management and use of Device Driver and Secondary Storage (Disk)
   Mechanism x
- Analyze Security and Protection Mechanism in Operating System

S.NO	UNIT NO & TOPIC TO BE COVERED	NO. OF PERIODS	REFERENCE TEXT BOOK	NATURE OF TEACHING
-	UNIT-I			Turicinite
1	Operating system functions, Operating system structure,	1	TB2,	chalk &talk
2	Operating systems operations	1	T82,	chalk &talk
3	Computing environments	1	TB2,	chalk &talk
4	Open-Source Operating Systems	1	TB2,	chalk &talk
5	System Structures: Operating System Service	1		100 AND 100 AN
6	User and Operating-System Interface,	1	TB2,	chalk &talk
7	Systems calls		TB2,	chalk &talk
8	Types of System Calls	1	TB2,	chalk &talk
9	System program	1	TB2,	chalk &talk
10		1	TB2,	chalk &talk
-	Operating system structure	1	TB2,	chalk &talk
11	Operating system debugging	1	TB2,	chalk &talk
12	System Boot.	1	TB2,	chalk &talk
C	Total no. of classes	12	100	Chair otalk

SPOC, IQAC SITAM, GAJULAREGA VIZIANAGARAM, AP INDIA DINO

Dr.D.V.Rama Murthy
Principal
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Menagement (SITALA)
Galularega, Vizianagaram



UNIT-II		(-)	
Process Concept: Process scheduling	1	TB2,	chalk &talk
Operations on processes	1	ТВ2,	chalk &talk
Inter-process communication,	1	TB2,	chalk &talk
Communication in client server systems	1	TB2,	chalk &talk
Multithreading models	1	TB2,	chalk &talk
Thread libraries, Threading issues.	1	TB2,	chalk &talk
Basic concepts, Scheduling criteria	1	TB2,	chalk &talk
Scheduling algorithms	1	тв2,	chalk &talk
Multiple processor scheduling	1	TB2,	chalk &talk
Thread scheduling.	1	TB2,	chalk &talk
Inter-process Communication: Race conditions	1	TB2,	chalk &talk
Critical Regions, Mutual exclusion with busy waiting	- 1	ТВ2,	chalk &talk
Sleep and wakeup,	1	TB2,	chalk &talk
Semaphores,	1	TB2,	chalk &talk
Mutexes,	1	TB2,	chalk &talk
Monitors	1	TB2,	chalk &talk
Message passing, Barriers	1	TB2,	chalk &talk
Classical IPC Problems - Dining philosophers problem	1	TB2,	chalk &talk
Readers and writers problem.	1	TB2,	chalk &talk
Total no. of classes	19	187 F	
UNIT-III	21-10-0		1000
Memory-Management Strategies: Introduction	1	TB2,	chalk &talk
Swapping	1	TB2,	chalk &talk
Contiguous memory allocation	1	TB2,	chalk &talk
Paging	1	TB2,	chalk &talk
Segmentation.	1	TB2,	chalk &talk
Virtual Memory Management	1	TB2,	chalk &talk
Introduction, Demand paging	1	TB2,	chalk &talk
Copy on-write, Page replacement,	1	TB2,	chalk &talk
Frame allocation	1	TB2,	chalk &talk
Thrashing, Memory-mapped files	1	TB2,	chalk &talk
Kernel memory allocation.	1	TB2,	chalk &talk
Total no. of classes	11	1.0	

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SPOC, IQAC SITAM, GAJULAREGA A.P., INDIA

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> Dr.D.V.Rama Murchy
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> Principal
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> Management (S. I. N.G.)
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T	UNIT-IV			
13	Deadlocks: Resources	1	TB2,	-b-0.0.0
14	Conditions for resource deadlocks	1	TB2,	chalk &talk
15	Ostrich algorithm	1		chalk &talk
16	Deadlock detection and recovery	1	TB2,	chalk &talk
17	Deadlock detection and recovery	1	TB2,	chalk &talk
18	Deadlock avoidance	1	TB2,	chalk &talk
19	Deadlock prevention.		TB2,	chalk &talk
50	File Systems: Files	1	TBZ,	chalk &talk
51	Directories, File system implementation	1	TB2,	chalk &talk
52	Management and optimization		TB2,	chalk &talk
53	Secondary-Storage Structure: Overview of disk structure	1	TB1,R1	chalk &talk
54	Disk scheduling		TB1,R1	chalk &talk
55	RAID structure	1	TB1,R1	chalk &talk
56	Stable storage implementation.	1	TB1,R1	chalk &talk
	Total no. of classes	1	TB1,R1	chalk &talk
	UNIT-V	14		
57	System Protection: Goals of protection	1	TB1,R1	chalk &talk
58	Principles and domain of protection	1	TB1,R1	chalk &talk
59	Access matrix, Access control	1	TB1,R1	chalk &talk
60	Revocation of access rights.	1	TB1,R1	chalk &talk
61	System Security: Introduction	1	The Section of the Contract of	The second second
62	Program threats, System and network threats	1	TB1,R1	chalk &talk
63	Cryptography for security	1	TB1,R1	chalk &talk
64	User authentication, Implementing security defenses	2	TB1,R1	chalk &talk
65	Firewalling to protect systems and networks	1	TB1,R1	chalk &talk
66	Computer security classification	1	TB1,R1	chalk &talk
67	Case Studies: Linux.	1	TB1,R1	chalk &talk
68	Microsoft Windows	2	TB1,R1	chalk &talk
	Total no. of classes	16	TB1,R1	chalk &talk
	Carren La La Carrence		ASSET OF	
	Total no. of classes (for all units)	72		

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Principal
Satya Institute of Technology and
Management (SITAM)
Gajularega, Vizianagaram

### Text Books:

- 1) Silberschatz A, Galvin P B, and Gagne G, Operating System Concepts, 9th edition, Wiley, 2013.
- 2) Tanenbaum A S, Modern Operating Systems, 3rd edition, Pearson Education, 2008. (for Inter Process Communication and File Systems.)

### Reference Books:

- 1) Dhamdhere D M, Operating Systems A Concept Based Approach, 3rd edition, Tata McGraw-Hill, 2012.
- Stallings W, Operating Systems -Internals and Design Principles, 6th edition, Pearson Education, 2009
- 3) Nutt G, Operating Systems, 3rd edition, Pearson Education, 2004. 2. Machine Learning, Tom M. Mitchell, MGH

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SPOC, IQAC SITAIA. GAJULAREGA VIZIANAGARAN, A.P., INDIA

Dr.D.V.Rama Murthy

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### SHAM



### SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Gajularega, Vizlanngaram, Andhru Pradesh, India-535002. Accredited by "NAAC"

Approved by AICTE and Affiliated to JNTUK, KAKINADA Email: sltam@sitam.co.in, Website:www.sitam.co.in Telephone No:9676788811, 8978812341/2, Land Line: 08922-234775/76/74



Program: U.G Branch: Computer Science & Engineering (AI&DS) Course: B.TECH Subject: Compiler Design Academie Year; 2022-23 (III Year I Sem) Faculty Name: R.Swetha LESSON PLAN Course Objectives:

Understand the basic concept of compiler design and its different phases which will be helpful to construct new tools

S.NO	Unit No. & Topics to be covered	No. Of Periods	Text	of
-	UNIT-I: Introduction to Language Processing, St	ructure of a C	ompiler	Teachin
1	Introduction Language Processing	1	TB1,R2	Chalk &
2	Structure of a compiler	1	TB1,R2	Chalk &
3	Bootstrapping	1	TB1, R2	Chalk & Talk
4	Input buffering	1.	TB1, R2	Chalk & Talk
5	Lexical analyzer Generator	1	TB1, R2	Chalk & Talk
6	Specification of tokens,	1	TB1, R2	Chalk & Talk
7	Recognitions of tokens the lexical analyzer generator lexical	1	TB1, R2	Chalk & Talk
8	Finite Automata, Regular Expressions	1	TB1, R2	Chalk & Talk
9	Design of a Lexical Analyzer Generator.	1	TB1, R2	Chalk & Talk
11	Revision	1	-	Talk
11	Test	1		100
	Total No. of Classes	11	345	
12	Syntax Analysis -: The Role of a Parser			
		1_1	TB1, R2	Chalk & Talk
13	Context-freeGrammar Writing A grammar	1	TB1, R2	Chalk & Talk
14	Left most Derivation and rightmost derivation	1	TB1, R2	Chalk & Talk
15	Pre-Processing Steps of Top-Down Parsing,	1	TB1, R2	Chalk & Talk
16	Recursive Descent Parsing.	1	TB1, R2	Chalk & Talk

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MARABARAM

SPOC, IQAC SITAM. GAJULAREGA VIZIANAGARAM, A P. INDIA

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Gajularega, Vizianagaram



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17	Parse trees, Ambiguity of grammar			Challe
10		1	TB1, R2	Chalk d
18	Top-down parsing	1	TB1, R2	Chalk &
19	Left recursion, Left factoring	1	TB1, R2	Chalk &
20	Backtracking,	1	TB1, R2	Chalk &
21	LL (1) grammar	1	TB1, R2	Chalk &
22	Predictive parsing	2	TB1, R2	Chalk &
23	Error Recovery in LL Parser	1	TB1, R2	Chalk &
24	Revision	1		
23	Test	1		
7,	Total No. of Classes	15	ALC: NO.	The Co
	UNIT-III: Bottom-Up Parsing & Syntax-Dire	eted Transla	tion	
26	Difference between LL and LR parsers	1	TB1, R2	Chalk & Talk
27	Bottom-up parsing	t	TB1, R2	Chalk & Talk
28	Shift Reduce Parser	1	TB1, R2	Chalk & Talk
29	SLR Parser	2	TB1, R2	Chalk & Talk
30	CLR Parser	1	TB1, R2	Chalk & Talk
31	LALR Parser	1	TB1, R2	Chalk & Talk
32	Dangling Else Ambiguity	1 =	TB1, R2	Chalk & Talk
33	Error Recovery in LR Parsing	1	TB1, R2	Chalk & Talk
34	Revision	- 1		
35	Test	1	4 1	
36	SDD, Evaluation Order of SDD	2	TB1, R2	Chalk & Talk
37	SDT Schemes	1	TB1, R2	Chalk & Talk
38	SDT EXAMPLE I	1	TB1, R2	Chalk & Talk
39	SDT EXAMPLE 2	1	TB1, R2	Chalk & Talk
40	Applications of Syntax-Directed Translation	1	TB1, R2	Chalk & Talk

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Telephone No:9676788811, 8978812341/2, Lund Line: 08922-234775/76/74

	Total No. of Classes	13		
61	Test	1		- 3
60	Revision	1		Talk
59	Peephole optimization	2	TB1, R2	Talk Chalk &
58	Dataflow analysis	1	TB1, R2	Chalk &
57	Loop optimization	1	TB1, R2	Chalk & Talk
56	Flow graph	1	TB1, R2	Chalk & Talk
55	Basic block and its optimization	7 2 3	TB1, R2	Chalk & Talk
54	Principle Sources of Optimization	2	TB1, R2	Chalk & Talk
53	Procedure calls	1	TB1, R2	Chalk & Talk
52	Activation records	1	TB1, R2	Chalk & Talk
51	Storage Organization	1	TB1, R2	Chalk & Talk
	UNIT-IV: Runtime Environ	ments		HE
	Total No. of Classes	27	75 115	
50	Test	1		
48	Back Patching Revision	1	TB1, R2	Chalk & Talk
47	Intermediate code for Procedures	1	TB1, R2	Chalk &
46	Control Flow Structures using intermediate code	1	TB1, R2	Chalk & Talk
45	Types and Declarations, Type Checking	1	TB1, R2	Chalk & Talk
44	DAG(Directed Acyclic Graph)	1	TB1, R2	Chalk & Talk
43	Three Address code	1	TB1, R2	Chalk & Talk
42	Variants Of Syntax Trees		TB1, R2	Chalk & Talk
41	Implementing L-attributed SDDs	1	TB1, R2	Chalk &

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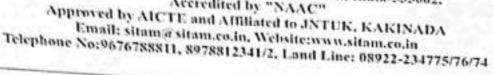
SITAM, GAJULAREGA VIZIANAGARAM, A.P. INDIA TECHNOLOGY OF THE PROPERTY OF

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UNIT-V: Code Generation			
Issues in the Design of a Code Generator	2	TB1, R2	Chalk & Talk
Code Generation Algorithm, Register allocation and assignment	2	TB1, R2	Chalk & Talk
Object Code Forms, Revision  Total No. of Classes	2	TB1, R2	Chalk & Talk
Total No. of Classes for all units	06		
or or or or all units	72		

### Books:

1. Compilers: Principles, Techniques, and Tools, Second Edition, Alfred V. Aho, Monica S. Lam, Ravi Sethi, Jeffry D. Ullman, Pearson Publishers, 2007.

### erence Books:

Compiler Construction, Principles, and Practice, Kenneth C Louden, Cengage Learning, 2006.

Aodern compiler implementation in C, Andrew W Appel, Revised edition, Cambridge University Press.

Optimizing Compilers for Modern Architectures, Randy Allen, Ken Kennedy, Morgan Kauffmann, 2001.

Levine, J.R., T. Mason and D. Brown, Lex, and Yacc, edition, O'Reilly & Associates, 1990.

CHROLOG

R. Swetha. gnature of the Faculty

SPOC, IQAC

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### SITAM

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Program	m: MBA		Branch:MBA				
'car an	d Sem: 1 MBA 11	SEMESTER	Subject : Operations Management				
Academ	ic Year: 2022-2023			Faculty	Name: Y.	DEEPIKA	
		LESSON PLAN					
		ident will be known					
		designed to make student understand the them with application of discipline to de					
The Transport	ment to acquaint	atent was appreciation of discipline to de	con with	ii rear ine t	Mainesa pi	obicin.	
S.NO	Proposed Date	Unit No& Topic to be Covered		quired No Periods	Reference e Text Books	Nature of Teaching	
	Proposed Date		01	rerious	BOOKS		
	., 14	Unit –I Introduction to Operatio	n Ma		t	Chalk & Talk	
	1 20/03/2023	Nature & Scope of Operation	1	Charry		,PPT	
	2 21/03/2023	Production Management	1	Charry	THE STATE OF	Chalk & Talk	
3	24/03/2023	Relationship with other functional areas,	1	Charry	DOL.	Chalk & Talk	
4		Recent trend in Operation Management	1	Charry	1-1	Chalk & Talk	
5	28/03/2023	Manufacturing	1	Charry		Chalk & Talk	
6	29/03/2023	Theory of Constrain	2	Charry		Chalk & Talk	
7	03/04/2023	Types of Production System	1	Charry	4.50	Chalk & Talk	
8	04/04/2023	Just in Time (JIT)	1	Charry	Carried .	Chalk & Talk	
9	05/04/2023	lean system	1	Charry		Chalk & Talk	
1	0 07/04/2023	CASE STUDY	1	Charry	alle"		
1	1 07/04/2023	Revision	1	Charry		Chalk & Talk	
		Total No of Classes	12	11.05		N 24 7 900	
A EST	HOLOGO Unit -	II: Product Design & Process	Selec	tion	Dy Dig	Chalk & Talk	
VIZIA	10004/2023/	and the same of th		Krajews	iki Sila	Malares	

	Tota	l No of Classes	11		A PARTY
10	25/04/2023	Revision	1	Krajewski	Chalk & Talk
9	24/04/2023	CASE STUDY	1	Krajewski	Chalk & Talk
8	21/04/2023	Job design	1	Krajewski	Chalk & Talk
7	19/04/2023	Work measurement	1	Krajewski	Chalk & Talk
6	18/04/2023	Advantages and Disadvantages	2	Krajewski	Chalk & Talk
5	17/04/2023	Characteristics	1	Krajewski	Chalk & Talk
4	12/04/2023	Layout Types	1	Krajewski	Chalk & Talk
3	12/04/2023	Facility location Layout	1	Krajewski	Chalk & Talk
2	11/04/2023	Value Analysis	1	Krajewski	Chalk & Talk

Unit - III: Forecasting & Capacity Planning

				Tee .	
1	26/04/2023	Forecasting	1	K Aswathappa	Chalk & Talk
2	28/04/2023	Capacity Planning	1	K Aswathappa	Chalk & Talk
3	28/04/2023	Methods of Forecasting	I	K Aswathappa	
4	01/05/2023	Overview of Operation Planning	1	K Aswathappa	Chalk & Talk
. 5	02/05/2023	Aggregate Production Planning	1 .	K Aswathappa	
6	03/05/2023	Production strategies,	1	K Aswathappa	Chalk & Talk
7	05/05/2023	Capacity Requirement Planning	1	K Aswathappa	Chalk & Talk
8	05/05/2023	MRP	1	K Aswathappa	Chalk & Talk
9	15/05/2023	Scheduling	1	K Aswathappa	Chalk & Talk
10	16/05/2023	Supply Chain Management	1	K Aswathappa	Chalk & Talk
11	17/05/2023	Purchase Management	1	K Aswathappa	Chalk & Talk
12	19/05/2023	Inventory Management.	1	K Aswathappa	7 -
13	22/05/2023	PRODUCTION STRATEGIES	1	K Aswathappa	Chalk & Talk
14	22/05/2023	CASE STUDY	1	K Aswathappa	
15	23/05/2023	Revision /	1	K Aswathappa	Murtin glan
CHNOLOG	Total	No que lasses	15	Dro N	Chalk & Talk

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Unit - IV: Productivity: Factor

1	24/05/2023	Productivity: Factor	1	Panner Selvem	Chalk & Talk ,PPT
	26/05/2023			Panner Selvem	Chalk & Talk
2	29/05/2023	Affecting Productivity		Panner Selvem	Chalk & Talk
3	30/05/2023	Job Design	1	Panner	Chatte & Talle
4		Process Flow Charts	1	Selvem	Chalk & Talk
5	31/05/2023	Methods Study	1	Panner Selvem	Chalk & Talk
11 11	02/06/2023			Panner Selvem	Chalk & Talk
6	05/06/2023	Work Measurement	1	Panner	37, 31,534
7	05/05/0000	Engineering and Behavioral	1	Selvem	Chalk & Tall
9	06/06/2023	Approaches	1	Selvem	Chalk & Talk
10	07/06/2023	CASE STUDY	1	Panner Selvem	Chalk & Talk
	09/06/2023	1	1 20	Panner Selvem	Chalk & Tall
11	The second	Revision Total No of Classes	111	-	The state of
200	1.92			*	A Later
	09/06/202	Unit - V: Quality Man	agement	9574	Chalk & Talk
1	3 12/06/202	Definition	1	S.C. Gupta	
2	3 13/06/202	Dimension	1 .	S.C. Gupta	Chalk & Talk
3	3	Cost of Quality	1	S.C. Gupta	Chalk & Talk
4	14/06/202	Quality Circles Continuous	1	S.C. Gupta	Chalk & Tall
5	14/06/202 3 16/06/202	improvement (Kaizen)	1	S.C. Gupta	Chalk & Talk
6	3	ISO (9000&14000 Series)	1	S.C. Gupta	2.3011. 40 1411
CHNBLOS	19/06/202	Statistical Quality Control	1	S.C. Gupta	Chalk & Talk
144. <b>8</b> 4.E.14	3=	Variable & Attribute	1 3	PS.C. Guptar	Chalk & Talk
_	20/06/202	Process Control	4. Paring	S.C. Gupta	Chair & Tall
91113	/3	/			
9111	21/06/202	Control Charts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SC Gunta	Chalk & Talk

12	3 26/06/202 3	Characteristic Curve	1	S.C. Gupta	Chalk & Talk
13	27/06/202 3	AQL ,LTPD	1	S.C. Gupta	Chalk & Tall
14	28/06/202 3	Alpha & Beta risk	1	S.C. Gupta	Chalk & Tall
15	30/06/202	Total Quality Management (TQM)	1	S.C. Gupta	Chalk & Tall
		Total No of Classes	15	H = 7-01	
n ke	Total 2	So of Classes(All Units)	64		

### Text Books:

- Krajewski & Ritzman (2004). Operation Management -Strategy and Analysis. Prentice Hall of India.
- 2. Panner Selvem, Production and Operation Management, Prentice Hall of India.
- 3. Chunnawals, Production & Operation Management Himalaya, Mumbal
- 4. Charry, S.N (2005). Production and Operation Management- Concepts, Methods Strategy. John Willy& Sons Asia Pvt Limited.
- 5. K Aswathappa & Sridhar Bhatt, Production & Operations Management, Himalaya, Mumbai

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Signature of the Faculty

Signature of the HOD

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### DEPARTMENT OF MANAGEMENT STUDIES



Branch: MBA MBA Program:

Subject: LEGAL AND BUSINESS ENVIRONMENT Year and Sem: 1 MBA 1 SEM

Faculty Name: N. PRUDHVI Academic Year: 2022-2023

### LESSON PLAN

Course Objectives: The Student will be known

Objective of the course is to give a basic perspective of Management. This will form foundation to study other functional areas of management and to provide the students with the conceptual framework and the theories underlying Organizational Behaviour.

S.No	Proposed Date	Unit No& Topic to be Covered	Required No o	Reference f e Text Books	Nature of Teaching
	Ditte	UNIT-I: CONCEPT OF BUSINESS EN	VIRONMENT	DI DIIAD	Chalk & Talk
- 1	31/10/22	Definition		P.K DHAR	Chalk & Talk
. 2	1/11/22	Characteristics and environmental factors	1	P.K DHAR	Crimin de Franc
		Importance of national and international level		P.K DHAR	Chalk & Talk
3	2/11/22	Problems and challenges		P.K DHAR	Chalk & Talk
4	3/11/22	Environmental scanning Importance	1	P.K DHAR	Chalk & Talk
5	4/11/22	Environmental scanning importance	1	P.K DHAR	Chalk & Talk
6	7/11/22	Process of scanning NITI Aayog: its role in economic development of india	7	P.K DHAR	Chalk & Talk
7	8/11/22	me to the dead and included	1	P.K DHAR	Chalk & Talk
8	9/11/22	Technological environment: features	1	P.K DHAR	Chalk & Talk
9	10/11/22	Its impact on business	i	P.K DHAR	Chalk & Talk
11	11/11/22	Restriants on technological growth Techniques and Processes of Decision Making	2	P.K DHAR	Chalk & Talk
12	15/11/22	CASE STUDY ANALYSIS	1	P.K DHAR	Chalk & Talk
	7		• 14		
	-	UNIT-II: ECONOMIC AND POLITICA	L ENVIRONME	NT	
	16/11/22	Definition of economic environment	1	N.D KAPO OR	Chalk & Talk
	17/11/22			N.D KAPO OR	Chalk & Talk
2		Economic systems		N.D	
195	18/11/22	A Charles	1	KAPO OR	Chalk & Talk
CHNOLOGO	21/41/22	Merit and demarits of each systems	On Mana M	urthy v + no	

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MEST	23/11/22				
7	24/44/0-	Regulatory and promotional framework	2	N.D KAPO OR	Chalk & Talk
8	24/11/22	Structure of Indian economy- nature and significance		N.D KAPO OR	Chalk & Talk
9	25/11/22	Economic planning - objectives	2	N D KAPO OR	Chalk & Talk
10	28/11/22	Merits , limitations- political environment	2	N.D KAPO OR	Chalk & Talk
	29/11/22	CASE STUDY ANALYSIS	ı	Harold Koontz	Chalk & Talk
		Total No of Classes	13		
		UNIT-III: LEGAL ENVIRONMENT	BUSINESS LAW		
1	30/11/22	Meaning scope and need for business law	2	P.K DHAR	Chalk & Talk
2	1/12/22	Sources of business law	2	P.K DHAR	Chalk &Talk
3	2/12/22	Indian contract act 1872(it's essential, breach of contract and remedies	2	P.K DHAR	Chalk & Talk
4	26/12/23	Intellectual property rights ~	2	P.K DHAR	Chalk & Talk
5	27/12/23	Negotiable instrument act 1881	2	P.K DHAR	Chalk & Talk
7	28/12/23	CASE STUDY ANALYSIS	2	P.K DHAR	Chalk & Talk
The state of		Total No of Classes	12	The second second	

t	NIT-IV: COMPANY ACT 2013: Memorano	lum and articles o	f association	
02/01/2		2	N.D KAPO OR	Chalk & Talk
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Text Books: .

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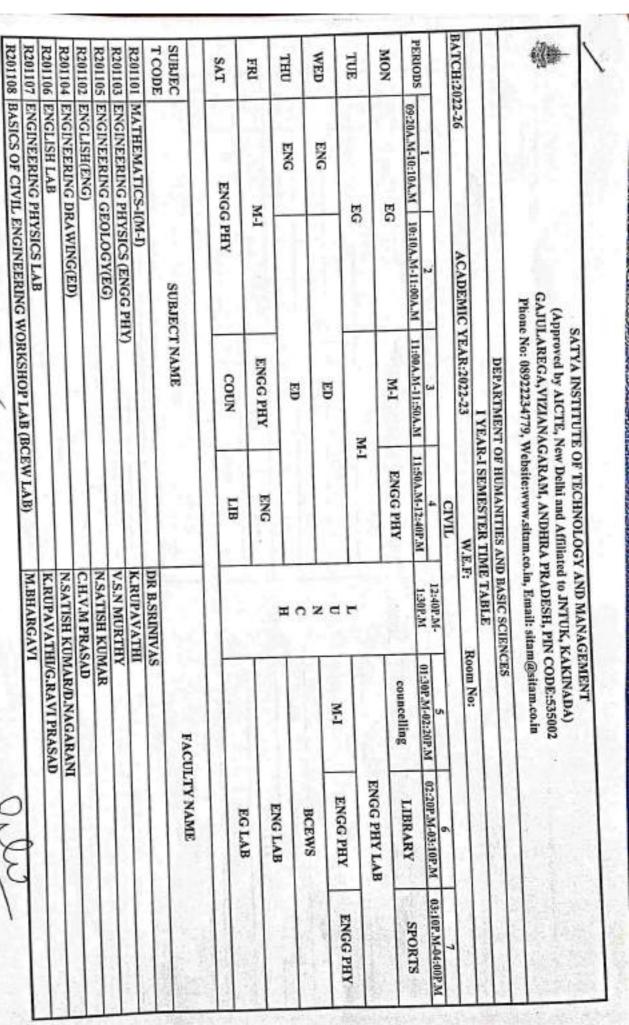
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Signature of the Faculty

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## SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT (Approved by AICTE, New Delhi and Affiliated to JNTUK, KAKINADA) GAJULAREGA, VIZIANAGARAM, ANDHRA PRADESH, PIN CODE:535002 Phone No: 98922234779, Website: www.sitem.co.in

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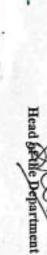
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Dr.D.V.Rama Murthy
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Head of the Department

SITAM LEADERSHIP DEVELOPMENT CLUB

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Phone No: 08922234779, Website:www.sitam.co.in, Email: sitam@sitam.co.in DEPARTMENT OF HUMANITIES AND BASIC SCIENCES

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Gajularega, Vizicnagaram Dr.D.V.Rama file Management (SITAM)

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Mr G.RAVI PRASAD/Ms N.SESHU

Mr Y.PRAVEEN NEW FACULTY

Mr. T.ANJI KUMAR

Mr V SATYANARAYANA/Mr J.MAHESWARA RAO

Smt G.SREEDEVI/Mr N.SATISH KUMAR

HEAD OF THE BEPARTMENT



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		S&G	76	Surveying and G	cometries			Mrs. M. BHARG	Mrs. M. BHARGAVI
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Gajularega, Vizianagaram, Andhra Pradesh, India-535002.

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Telephone No:9676788811, 8978812341/2, Land Line: 08922-234775 DEPARTMENT OF CIVIL ENGINEERING IV YEAR - I SEMESTER TIME TABLE



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Dell			Mr G. GOUTHAM KUMAR	Ms. V.N.S SINDHUJA	Mr P. SARATH	Ms. V.N.S SINDHUJA	Mr B.H.S SAI PRASANTH	Mr V.S.N MURTHY	Mr P. SARATH	Ms. V.N.S SINDHUJA	Mr B.H.S SAI PRASANTH	Mr G. GOUTHAM KUMAR	NA.		RS & GIS	PM	PM	IWWI	RS & GIS	1.30-2.20	5	07-2022
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	ACADE	II II	EAR - II SEMES	TER TIME TABLE	092		
BATCH:2021-25	ACADE	MIC YEAR:20	)22-23	w.e.f 25-01-20	023		Carlotte Control of
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CV@S	0	omplex Variable	es and Statestical n	iethods	Dr.K	904	904
S.M-II	80	trength of Mater	ials-II		Mrs.		K. GAYATRI KIRAN
MHH	Н	ydraulics and H	ydraulic Machiner	Y.	Dr. G		
EE	E	nvironmental Ea	gineering		Mrs.		M. BHARGAVI
MEFA	M	anagerial Econe	mics and Financia	l Analysis	Mrs.C	H.GAYATI	H.GAYATHRI
SM LAB	SI	rength of Mater	tals lab		Mr. P.	SARATH	SARATH
EE LAB	E	avironmental Er	gineering lab		Mrs. M	BHARG.	. BHARGAVI
FM@HM LAB	FI	uid Mechanics a	nd Hydraulic Mae	hinery lab	Mrs. K	GAYATE	GAYATRI KIRAN
COUNSELING	C	OUNSELING		- 1 S 1 S 1 S 1 S	Ms. V.	N.S SINDH	N.S SINDHUJA
LIBRARY	LJ LJ	Y	MANAC		Mr. G	. GOUTHA	. GOUTHAM KUMAR
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0	_	out to		d Station)	Mrs.		W. BHARGARA
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Management (SITAM) Gajularega, Vizianagaram



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700			DEPARTMEN	DEPARTMENT OF CIVIL ENGINEERING	NGINEERING			
BATCH:2020-24		ACADE	ACADEMIC YEAR: 2022-23	CAR: 2022-23 w.e.	w.e.f21-0	01-2023		
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Mon	ASA	ASA	DDSS	DDSS		WRE	WRE	GTE-II
Tue	ASA		RS@GIS LAB/ SAC		н	DDSS	RS@GIS	RS@GIS
Wed	RS@GIS		SAC/RS@GIS		INCI	WRE	WRE	SPORTS
Thu	GTE-II	GTE-II	ASA	LIBRARY	L		ESC	
Fri	RS@GIS	RS@GIS	DDSS	SSdd		COUNSELLING	GTE-II	WRE
Sat	ASA	1/1/25	CEP	4			VAC	
			KVN	NAME OF THE SUBJECT	CT	NAM	NAME OF THE FACULTY	ALT.
	DDSS		Design and Drawing of Steel Structures	of Steel Structures		Mr. G. GOUTHAM KUMAR	KUMAR	
8	GTE-II		Geotechnical Engineering-II	oring-II		Mr. B.H.S PRASANTH	CH	
A NEW	WRE		Water Resource Engineering	incering		Dr. G. RAVI KISHORE	RE	
	ASA		Advanced Structural Analysis	Analysis		Mr. P. SARATH		
	RS@GIS		Remote Sensing and GIS	GIS		Ms. V.N.S SINDHUJA	Α	
	CEP		Civil Engineering Practise	actise	The Control of	Mr. G. GOUTHAM KUMAR/ Mr. P. SARATH	KUMAR/ Mr. P. S	ARATH
	ESC		Estimation Specifications and Contracts	ions and Contracts	Section 1	Mrs. M. BHARGAVI		
	SAC	STATE OF THE PARTY OF	Skill Advanced Course	se	0.000	Mr. P. SARATH/Mr. G. GOUTHAM KUMAR	G. GOUTHAM	KUMAR
1	RS@GIS LAB		RS@GIS LAB		2000	45. V.N.S SINDHUJA		
	SPORTS	STATE OF THE PARTY	SPORTS	MATTER		Mrs. K. GAYATRI KIRAN	GRAN	
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	) ES		EMBLOYIBILITY SKILLS	KILLS		Mr. B. KOTESHWARA RAO	RA RAO	
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R-2022-23 w.o.f 21-01-2023	H:2019-23 ACADEMIC VEAR-2022-23
IV YEAR - II SEMESTER TIME TABLE	
DEPARTMENT OF CIVIL ENGINEERING	DEPA
ne No:9676788811, 8978812341/2, Land Line: 08922-234775	Telephone No:9

		Sept.		S 28 34 5							Sat	Fri	Thu	Wed	Tue	Mon		Day Time	BATCH:2019-23	
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-			G GOUTHAM КИМАR	Mr G. GOUTHAM KUMAR	Ms. V.N.S SINDHUJA		Mr V.S.N MURTHY	Ms. V.N.S SINDHUJA	Mr B.H.S SAI PRASANTH			RSE	RSE		PROJECT	GIT	1.30-2.20	5	w.e.f 21-01-2023	
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Telephone No:9676788811, 8978812341/2, Land Line: 08922-234775

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SPECIAL ELECTRICAL MACHINES	MICRO PROCESSOR AND MICRO CONTROLLERS LAB	POWER SYSTEM SIMULATION LAB	ELECTRICAL MEASURING INSTRUMENTS LAB	MACHINE LEARNING WITH PYTHON	POWER SYSTEM ANALYSIS	ELECTRICAL MEASURING INSTRUMENTS	MICRO PROCESSOR AND MICRO CONTROLLERS	COMPUTER NETWORKS	SWITCH GEAR AND PROTECTION		MLP	Q	CN	SGP	EMI	MPMC	9:20A.M-10:10A.M	
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P KARUNAKAR	D.SRINIVASA RAO	Y.SANTHOSH/R.PAYANI	M.SWATHI/G.TIRUPATHI NAIDU	Y.YASHODHA KRUSHNA	P.KARUNAKAR	TATENKATESH	M.SRINIVAS RAO	A.SOFIA	RPAVANI		EMI	EMI	S	MI		SGP	01:30P.M- 02:20P.M	3
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(3)	INSTA			VAC	WB	EDS	PSOC	CODE	SAT	FRI	THU	WED	TUE	MON		
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James !	OF TIME TABLE IC	SPORTS	LIBRARY	PROJECT	Finite Element Simulation Lab	Micro Electro Mechanical Systems	Fower Plant Engineering	Production Planning & Control	Finite Element Methods	Industrial Management	NAMI		IEM	PPC	IEM	FEM		FES LAB	FEM	11.00-11.50	SJ.	ACADEMIC YEAR: 2022-23	IV YEAR.	PARTMENT OF	Phone No: 96767889	aiularcea, Vizianae	TUTE OF T
					ntion Lab	mical Systems	ring	& Control	ods	ent	NAME OF THE SUBJECT		PPE	PPC	PPC	MEMS			PPC	11.50-12.40	4	2-23	IV YEAR - I SEMESTER TIME TABLE	DEPARTMENT OF MECHANICAL ENGINE	Phone No: 9676788811/33/44, Landline: 08922-234775/	Gaiulareen, Vizionassaram, Andrea Product, Pla Code	INSTITUTE OF TECHNOLOGY AND
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BATCH:2021-25

SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT NAAC Accredited, Approved by AICTE, New Delhi and Affiliated to JNTUK, KAKINADA.

DEPARTMENT OF MECHANICAL ENGINEERING Gajularega, Vizianugaram, Andhra Pradesh, Pin Code - 535002 Phone No: 9676788811/33/44, Landline: 08922-234775/76/74

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MOS			Fluid mechanics and hydraulic machines	hydraulic machines		Mr. D. Chair v. Lansann		
DAMIAB			Mechanics of Solids	ids		Mr. D.C. Battanya		
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Gajularega, Vizianngaram, Andhra Pradesh, Pin Code - 535002 Phone No: 9676788811/33/44, Landline: 08922-234775/76/74

DEPARTMENT OF MECHANICAL ENGINEERING

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Gnjularega, Vizianagaram, Andhra Pradesh, Pin Code - 535002

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SIG	Mr P.Shreenivasa rao	Smt. Priyanka	Dr P.Shreeniyasa rao	Mr. D.Chaitanya	Mr. CH V M P	Mr. M Jaya prakesh	Smt. Priyanka	Mr. S Prasanth	Mr.CH V M Prasad	NAJ		Alam	AE	RM	2	-		CAE		1.30-2.20	5	w.e.f 19-01-2023
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Phone No. 96767888117714

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SIGNATURE OF HOD	Mr. D.Chaitanya / /n /n	Mr.K E Jagadish	Mr. S Prayanth	Dr P.Shreenivasa rao	Mr. M Jaya prakesh	Mr. N.Murali krishna	Mr. D.Chaitanya	Smt. Ch. V. Lakshmi	Mr. Anil kumar	Mr.K E Jagadish	NAME OF THE FACULTY

VIZIANAL- JAIN AP INDIA GAJULAREGA

SIGNATURE OF HOD

Dr.D.V.Rama Murthy

Dr.D.V.Rama Murthy

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2022-23-IV-II ECE TIME TABLE (w.e.f:DEC-2022)	ELECTRONICS AND COMMUNICATION ENGINEERING
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1000	All Faculty	Mr.K.Hari Krishpa	Mrs.R.SWETHA	Mr.D.SRINIVASA RAO				A	No. 1			01:30P.M- 02:20P.M
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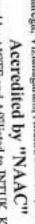
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HEAD OF THE DEPARTMENT Institute of Technology and Gajularego, Visianachram

# SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Gajularega, Vizianagarum, Andhra Pradesh, India-535002.



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2	Mrs.D.VIJAYA SRI		DVS		DIGITAL IC DESIGN LAB	DIGITAL IC	1	рісріля	
SE	Mrs.V.SIRISHA/Mrs.V.N.SIREESHA	Mrs.V.SI	SNASA	В	ANALOG COMMUNICATIONS LAB	ANALOG COMM		ACLAB	17
3	Dr.T.D.V.A.NAIDU/Mrs.B.VIJAYA	Dr.T.D.	TDVA/BV	AB	CUIT ANALYSIS I	ELECTRONIC CIRCUIT ANALYSIS LAB	1	ECA LAB	
	Mr.N.PRUDHVI		NP	CHAVIOUR	ANIZATIONAL BI	MANAGEMENT AND ORGANIZATIONAL BEHAVIOUR	MANAG	МОВ	
1	Mrs.M.SWATHI		MS		LINEAR CONTROL SYSTEMS	LINEAR CONT		LCS	
1	Mrs.V.SIRUSHA		VS	Stallo See	ANALOG COMMUNICATIONS	ANALOG COM		AC	
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	Microwave and Optical Communication Engineering Lab	ab	(PE-2)	Advanced Digital Signal Processing (PE-1)	Data Communications & Computer Networks	deo processing	Microwave and Optical Communication Engineering	SUBJEC	DIVP		ES	MWOC	ADSP	PROJECT-I	10:10A.M- 11:00A.M	2022-	CIMENT OF
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4000	MSR/DVS	KHKTDVA Mr.K.	КВК	BV	TAK	DSR	MSR	FACULTY		Н	С	N	U	L	12:40P.M- 01:30P.M	(w.e.f:04-	IMUNICA
All Faculty	Mr.M.Srinivasa Rac		Mr.K.Hari Krishna	Mrs.B.Vijaya	Mr.T.Anji Kumar	Mrs D.Vijaya Sri	Mr.M.Srinivasa Rao		DCCN	DCCN	MWE		MWOC		01:30P.M- 02:20P.M	07-2022)	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
)	Srinivasa Rac/Mrs.D.Vijaya Sri	Hari Krishna/Dr.T.D.V.A.Naidu					TO SHOW IN	FACULTY NAME	DCCN	DCCN	DIVP	IOT LAB	DIVP	PROJECT-I	02:20P.M- 03:10P.M	Roor	EERING
4.8	Schlaim diule o	Dr.D V.Rain		*****			A STATE OF THE STA		SPORTS	ADSP	COUN		ш	The State of	03:10P.M- 04:00P.M	Room No: D-201	

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TIME TABLE I/C

HEAD OF THE DEPARTMENT

### SHAN

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		The Control	2022-23-III-I ECE TIME TABLE (w.e.f: 01-08-2022)	CE TIME TAB	LE (w.e.f: 01	-08	-08-2022)	MP VC
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	CYMRUR GYMRURB	(S) DVS/VNS	DSRIMISR	SNA	BKR	GVMR	VS	FTSAB	DSR	FACULTY CODE
HEAD OF THE DEPARTMENT	Mrs LGayathri/Mr-R-Bangari	Mrs.D.Vijaya Sri/Mrs.V.N.Sireesha	Mr.D.Srinivasa Rao/Ntr.M.Srinivasa Rao	Mrs. V.N. Sireesha	Mr.B.K Rao	Mrs I.Gayathri	Mrs V.Sirisha	Mrs.B.V.S.L.Jyothi	Mr.D.Srinivasa Rao	FACULTY NAME
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## SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMEN Gajularega, Vizianagaram, Andhra Pradesh, India-535002. SITAM

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DATABASE MANAGEMENT SYSTEM

MAD LAB

DEVELOPMENT LAB MOBILE APPLICATION

CONSTRUCTION OF INDIA

DR.P.RAVI KUMAR

V.KIRAN KUMAR/R.BANGARI

M.MADHU BABU/T.ANJIKUMAR

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AL&DS LAB

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INTRODUCTION TO AI&DS LAB

DATABASE MANAGEMENT SYSTEM

M.MADHU BABU

Y.DINESH KUMAR

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NAME OF THE FACULTY

A.SRINIVAS RAO

Y.DINESH KUMAR/T.ANJI KUMAR

I.GAYATHRI/B.PRIYANKA

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SIGNATURE OF TIMETABLE I/C W. Kirau kuway

(Segmonde)

Satya Institute of Technology and Dr.D.V.Rama Murthy Principal

Management (SITAM) Gajularega, Vizianagaram

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# DEBARTMENT OF COMPUTED SCIENCE & ENCINEEDING (ALLERS)

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SIGNATURE OF TIMETABLE I/C V-Kiran Ruman

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Salya institute of Technology and Management (STTAM) Gajularoga, Vizianagaram

VIZIANAGARAM, A.P., IIIDIA SITAM, GAJULAREGA SPOC, IOAC

DcD.V.Rama Muchy Principal



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CYBER SECURITY AND FORENSICS

B.KOTESWARA RAO

Y.PRAVEEN/K.YASHODA KRISHNA

A.SOPHIA

Y.PRAVEEN

DR.I.SIVARAO

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Salya Institute of Technology and Gajularega, Vizianagaram Management (STIAM) Dr.D.V.Ramp Murthy Principal

VIZIANIAGARAM, A.P., INDIA SITAIR GAJULAREGA

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VIZIANAGIJSAM, A.P., INDIA

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Salya Institute of Technology and Managoment (SITAM) Principal Murthy

SIGNATURE OF HOD



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PROGRAMMING, DATA STRUCTURES AND ALGORITHMS USING PATHON	AB	WEB APPLICATION DEVELOPMENT	DATA MINING USING PYTHON LAB	MING LAB	MANAGERIAL ECONOMICS & FINANCIAL ACCOUNTANCY	FORMAL LANGUAGES AND AUTOMATA THEORY	DATA WAREHOUSING & MINING	COMPUTER ORGANIZATION	PROBABILITY & STATISTICS	NAME OF THE SUBJECT	MEFA	LIBRARY	CO	DWDM	8	FLAT	11:50A.M- 12:40P.M	4	ACADEMIC YEAR: 2022-23	II SEMESTE	UTER SCIE
	183	LOPMENT	THON LAB		ICS &	ND	MINING	TION	TICS				LUNCH				12.40P.M- 1.30P.M		2-23	II YEAR - II SEMESTER TIME TABLE	NCE & EN
Y.PRAVEEN	Y.PRAVEEN/A.SOPHI	I GAYATHRUT.ANJIKUMAR	M MADHU BABU/B.P	E.SRAVYA/M.MADHU	ВЈУОТНІ	ESRAVYA	M MADHUBABU	I GAYATHRI	DR. B SRINIVAS	NAME OF THE FACE	7				MGWG	P&S	01:30P.M- 02:20P.M	5		LE	DEFARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI&DS)
	LSOPHIA	T.ANJIKUMA	ABU/B.PRIYA	MADHU BABU			ABU	7697	VAS .	HE FACULTY	MONGODB LAB	WAD LAB		DWDM LAB		MEFA	02:20P.M- 03:10P.M	6	W.E.F.:19/1/23		(AI&DS)
		LR.	RIYANKA	30							A.B	A COLUMN	8		VAC	SPORTS	03:10P.M- 04:00P.M	7	3		

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SIGNATURE OF TIMETABLEFICM GAJULAREGA VIZIANAGARANA P. INDIA C, IOAC

Satya Institute of Technology and Principal

Management (UTK-24) Gajularega, Vizionagaram

Dr.D.M.Rama Illurthy SIGNATURE OF HOD



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Telephone No:9676788811, 8978812341/2, Land Line: 08922-234775/76/74 Email: sitam@sitam.co.in, Website:www.sitam.co.in



# DEPARTMENT OF COMPUTED SCIENCE & ENGINEERING

			III YEAR - II SEMESTER TIME TABLE	III YEAR - II SEMESTER TIME TARLE	TIME TABLE	C. C	9	
BATCH:2020-24	4	1	ACADEMIC YEAR:2022-23	AR:2022-23		2.5	W.E.F.:19/1/23	
	1	2	3	4		Un.	6	7
DAY /TIME	09:20A.M-	10:10A.M-	11:00A.M-	11:50A.M-	12.40P.M-	01:30P.M-	02:20P.M-	03:10P.M-
	10:10A.M	11:00A.M	11:50A.M	12:40P.M	1.30P.M	02:20P.M	03:10P.M	04:00P.M
MON	BDA	ala	MI	C&NS			MLP LAB	
TUE	ML	C&NS	BDA	CD			C&NS LAB	
WED	DLD	ML	BDA	CD	THOMAS		CDLAB	
THU	C&NS	DLD	CD	LIBRARY	PONCE	1	MSTLAB	
FRI	ML	CD	BDA	DLD		C&NS	VAC	50
SAT	CD	ML	DLD	C&NS		BDA	ES-II	SPORTS
S	SUB CODE		NAME OF THE SUBJECT	SUBJECT		NAME OF THE	F THE FACULTY	
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The same and	CD		COMPILER DESIGN	ESIGN		R SWETHA		
	C&NS		CRYPTOGRAPHY & NETWORK SECURITY	HY & NETWO		T.ANJI KUMAR	R	
	BDA		BIG DATA ANALYTICS	ALYTICS	WAS THE	Y.DINESH		
	DLD		DIGITAL LOGIC DESIGN	IC DESIGN		K.HARIKRISHNA	NA AN	
	CD LAB		COMILER DESIGN LAB	IGN LAB	3	R SWETHAJK, YASODHA KRISHNA	ASODHA KR	ISHNA
C	C&NS LAB	***	CRYPTOGRAPHY & NETWORK SECURITY LAB	B WEIWC		T.ANJI KUMAF	UMAR/D.AVINASH BABU	BABU
N	MLP LAB		MACHINE LEARNING USING PYTHON LAB	RNING USING		B PRIYANKA/Y.DINESH	'DINESH	
N	MST LAB	-	MEAN STACK TECHNOLOGIES LAB	TECHNOLOG		Y.DINESH/I.GAYATHRI	YATHRI	
	ES-II /2/	189	EMPLOYABILITY SKILLS-II	ITY SKILLS-I		N PRUDVI		
	VAC	B S (M. Sybrits	VAC	ERATING SY		D.AVINASH BABU	BU	

IGNATURE OF TIMETABLE JUG GAJULAREGA U- Kiyan Kuunan VIZIANIAGARAMA P. INDIA IC, IQAC

Dr.D.V.Rama Murthy

Satya Institute of Turbrackeyy and Management (SUDAN)
Gajularega, Vizianager Principal

SIGNATURE OF HOD



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# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AL&DS)

		D	1					The state of the s	1000			SAT	FRI	THU	WED	TUE	MON		DAY /TIME		DA I CH:2020-24	D. TOTAL
VAC /5/		DLTF LAB	MST LAB	BDA LAB	CN LAB	FUEE	SPM	DAA	BDA	CN	SUB CODE	DAA	UEE	BDA	CN	SPM	UEE	10:10A.M	09:20A.M-	1	14	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TO SE	P P	N	Б	0	- L	75	0				UEE	CN	SPM	UEE	UEE	CN	11:00A.M	10:10A.M-	2		
EAL TIME OF	MPLOYABILI	PLOW LAB	TEAN STACK	HG DATA ANA	COMPUTER N	FUNDAMENTALS OF U	SOFTWARE P.	DESIGN AND	BIG DATA ANALYTICS	COMPUTER NETWORKS	NAME OF THE SUBJECT	BDA	DAA	CN	SPM	DAA	BDA	11:50A.M	11:00A.M-	3	ACADEMIC '	III YEAR -
FREAL TIME OPERATING SYSTEM	EMPLOYABILITY SKILLS-II	PLOW LAB	MEAN STACK TECHNOLOGIES LAB	BIG DATA ANALYTICS LAB	COMPUTER NETWORKS LAB	FUNDAMENTALS OF UTILIZATION OF ELECTRICAL ENERGY	SOFTWARE PROJECT MANAGEMENT	DESIGN AND ANALYSIS OF	ALYTICS	ETWORKS	ESUBJECT	SPM	BDA	DAA	BDA	LIBRARY	SPM	12:40P.M	11:50A.M-	4	ACADEMIC YEAR:2022-23	III YEAR - II SEMESTER TIME TABLE
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		EN/A.SOPHIA	ABU/Y.PRAVE	KUMAR/I.GAYATHRI	UMAR/D.AVINASH BABU		ABU		H KUMAR	ıR	F THE FACULTY	V.	ES-II	DLTF LAB	MST LAB	BDA LAB	CNLAB	03:10P.M	02:20P.M-	6	W.E.F.:19/1/23	
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SIGNATURE OF TIMETABLESIEO VIZIANAGARAMA P INDIA SITAM, GAJULAREGA

V. Kiran Rower

Satya Institute of Tourshology and Management (SITEM) Gajularogo, Vizianagaram Dr.D.V.Rama Murthy Principal

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SIGNATURE OF HOD



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

THE WAY		の利用をおけること	TO STATE OF THE PARTY OF THE PA	SUBJ	SAT	FKI	OUT	THUT	WED	TUE	MON		DAY TIME	The second second second	BATCH:2019-23
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I .		1					PONCE	TINCH				12.40P.M- 1.30P.M	The state of		ME TABLE
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KRISHNA				E FACULTY	PROJECT WORK	PROJECT WORK	V2	MOB	MOB	CONCE HOLD	PROTECT WORK	02:20P.M- 03:10P.M	6	V.E.F.:5/12/22	- A-70-
		The second			K	K	VAC	SPORTS	LIBRARY	and the same of th	77	02:20P.M-   03:10P.M- 03:10P.M   04:00P.M	7		SHOP SHOW

SIGNATURE OF TIME TABLE I/C V. Kiran kuman.



Dr.D.V.Rama Murthy Principal

SIGNATURE OF HOD

Satya Institute of Technology and Management (SITAM) Gajularega, Vizianagaram

VIZIANAGARMAN MOIA SITAL GAJULAREGA SPOC, IOAC



### SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

### DEPARTMENT OF MANAGEMENT STUDES

MBA II YEAR-IV SEMESTER TIME TABLE

ACADEMIC YEAR: 2022-23

W.E.F:13-03-2023



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PERIODS	09:20A.M- 10:10A.M	10:10A.M- 11:00A.M	11:00A.M- 11:50A.M	11:50A.M- 12:40P.A1	12:40P.M- 01:30P.M	01:30P.M- 02:20P.M	02:20P.M- 03:10P.M	03:10P.M- 04:00P.M
MON	1&E	SFM/SHRM	SCMA	BF/ER&E			IHRM	Sports
TUE	SCMA	E&1	GFM/IIIRM	SFM/SHRM	U	GFM/HIRM	COUNSELLI NG	LIBRARY
WED	I&E	FD/	HRD	SCMA	N	BF/E	R&E	I&E
THU	SFM/SHRM	GFM/IHRM	SCMA	I&E	С	SFM/S	SHRM	COUNSEL
FRI	BF/F	R&E	FD/	HRD	••		B-CLUB	20110

URSE CO	SUBJECT NAME	FACULTY CODE	FACULTY NAME
C-401	SUPPLY CHAIN MANAGEMENT AND ANALYTICS	PRK	Dr.P.RAVI KUMAR
C-402	INNOVATION AND ENTREPRENEURSHIP	YD	Mrs.Y.DEEPIKA
EH-402	INTERNATIONAL HRM	NP	Mr.N .PRUDHVI
EH-403	EMPLOYEE RELATION AND ENGAGEMENENT	MP	Ms.M.PRASANNA
EH-404	HUMAN RESOURCES DEVELOPMENT	BJ	Mrs.B.JYOTHI
EH-405	STRATEGIC HRM	sv	Dr.S.VAROODHINI
EF-401	FINANCIAL DERIVATIVES	CHG	Mrs.CH.GAYATHRI
EF-402	GLOBAL FINANCIAL MANAGEMENT	CHG	Mrs.CH.GAYATHRI
EF-404	STRATEGIC FINACIAL MANAGEMENT	ALP	Mrs. A.L.PRIYANKA
EF-405	BEHAVIOURAL FINANCE	TR	Mr.T.RAMANA
	B-CLUB	CHG,BJ	Mrs.CH.GAYATHRI,B.JYOTH

SIGNATURE OF THE COORDINATOR

SIGNATURE OF THE HOD

SPOC, IQAC GITATA GAJULAREGA VIZIANAGANAN AP INDIA

WEIGHNOLOGY PROPERTY AND SECOND SECON

Dr.D. V.Parna Murthy

Dr.D. V.Parna Murthy

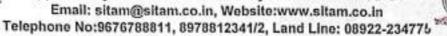
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### DEPARTMENT OF MANAGEMENT STUDES

MBA I YEAR-II SEMESTER TIME TABLE

ACADEMIC YEAR: 2022-23 W.E.F:20-03-2023

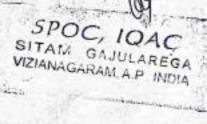
	1	2	3	4	12:40P.M-	5	6	7
PERIODS	09:20A.M- 10:10A.M	10:10A.M- 11:00A.M	11:00A.M- 11:50A.M	11:50A.M- 12:40P.M	01:30P.M	01:30P.M- 02:20P.M	02:20P.M- 03:10P.M	03:10P.M- 04:00P.M
MON	PM	HRM	MM	OM	2		RM	PM
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SAT			J. T. T.		. н	31/ 10/5		

CODE	SUBJECT NAME	FACULTY CODE	FACULTY NAME
MB1921	FINANCIAL MANAGEMENT	ALP	Mrs A.L PRIYANKA
MB1922	HUMAN RESOURCE MANAGEMENT	MP	Ms.M.PRASANNA
MB1923	MARKETING MANAGEMENT	SV	Dr.S.VAROODHINI
MB1924	OPERATIONS MANAGEMENT	GVRK	MRS.Y.DEEPIKA
MB1925	BUSINESS RESEARCH METHODS	VV	Mrs.VASANTA
MB192A	PROJECT MANAGEMENT TECHNOLOGY	BK	MR.N.prudhvi
	R PROGRAMMING LAB	MB	RATNA KUMARI
	BUSINESS COMMUNICATION CLUB	Y.D,	CH.G,B.J

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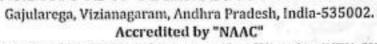
Dr.D. V. Rama Murthy

Dr.D. V. Rama Murthy

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### SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT







### TIME TABLE MBA HYEAR 1SEM W.E.F 1-8-2023

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MON	TAX	FMS	SM	IAPM		MBFI	OR	OR
TUE	IAPM	SM	MBFI	TAX	-	TAX	FMS	SPORTS
WED	TAX	IAPM	SM	SS	No.		B-CLUB	
THU	OR	OR	TAX	SS .	H	FMS	IAPM	MBFI
FRI	OR	MBFI	FMS	SM	7.2	COUN	COUN	LIB

SI.NO	SUBJECT NAME	FACULTY CODE	FACULTY NAME
1	TAXATION	MR. TR	T.RAMANA
2	FINANCIAL MARKETS AND SERVICES	MRS. DY	Y.DEEPIKA
3	MANAGING BANKS AND FINANCIAL INSTITUTIONS	MRS. CH.G	CH.GAYATHRI
4	STRATEGIC MANAGEMENT	MRS.BJ	в. Јуотні
5	OPERATIONS RESEARCH	MRS. CH.K	CH.KANCHANA
6	INVENSTMENT ANALYSIS AND PORTFOLIO MANAGEMENT	MRS. ALP	A.L.PRIYANKA
7	B-CLUB	M.P,CH.G,B.J	M.PRASANNA,CH.GAYA TRI,B.JYOTHI

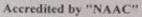
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Gajularega, Vizianagaram, Andhra Pradesh, India-535002.



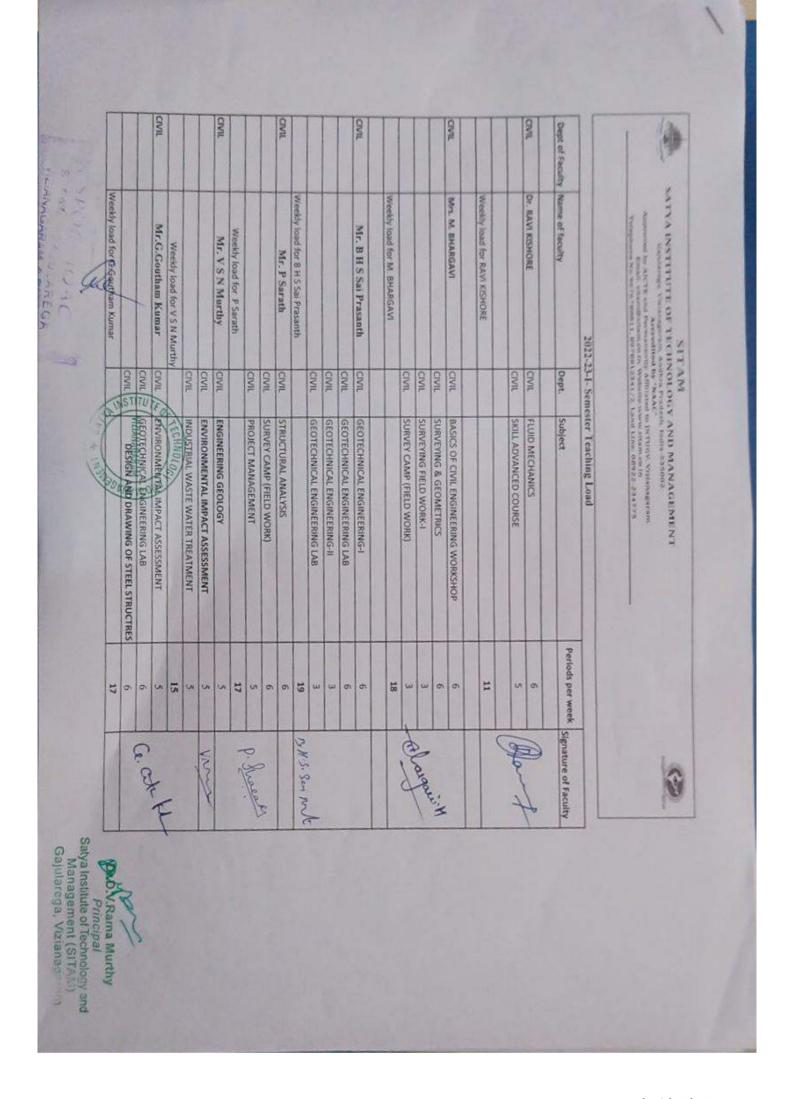
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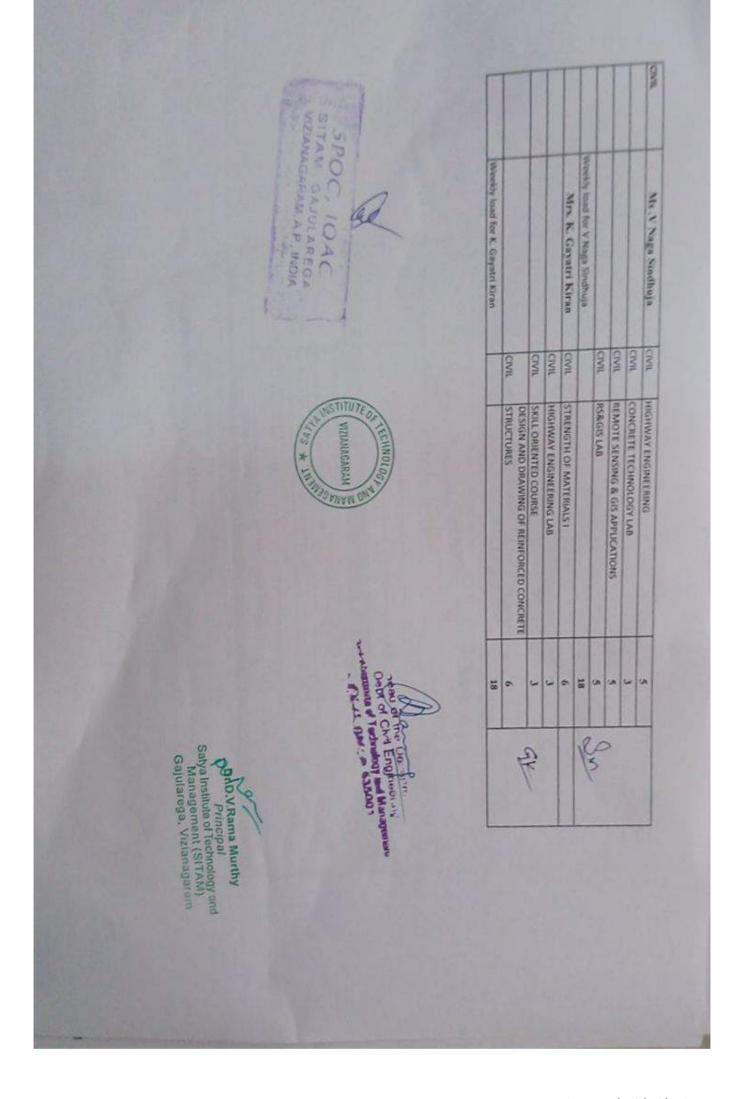


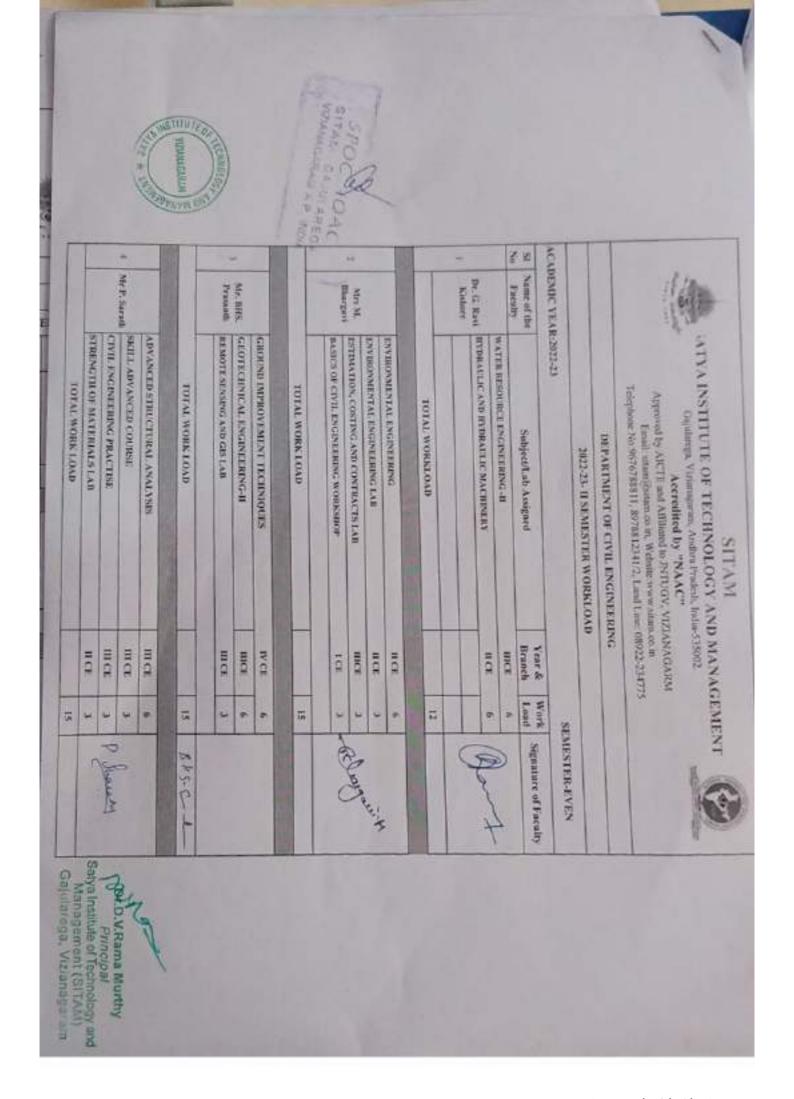
### HUMANITIES AND BASIC SCIENCES

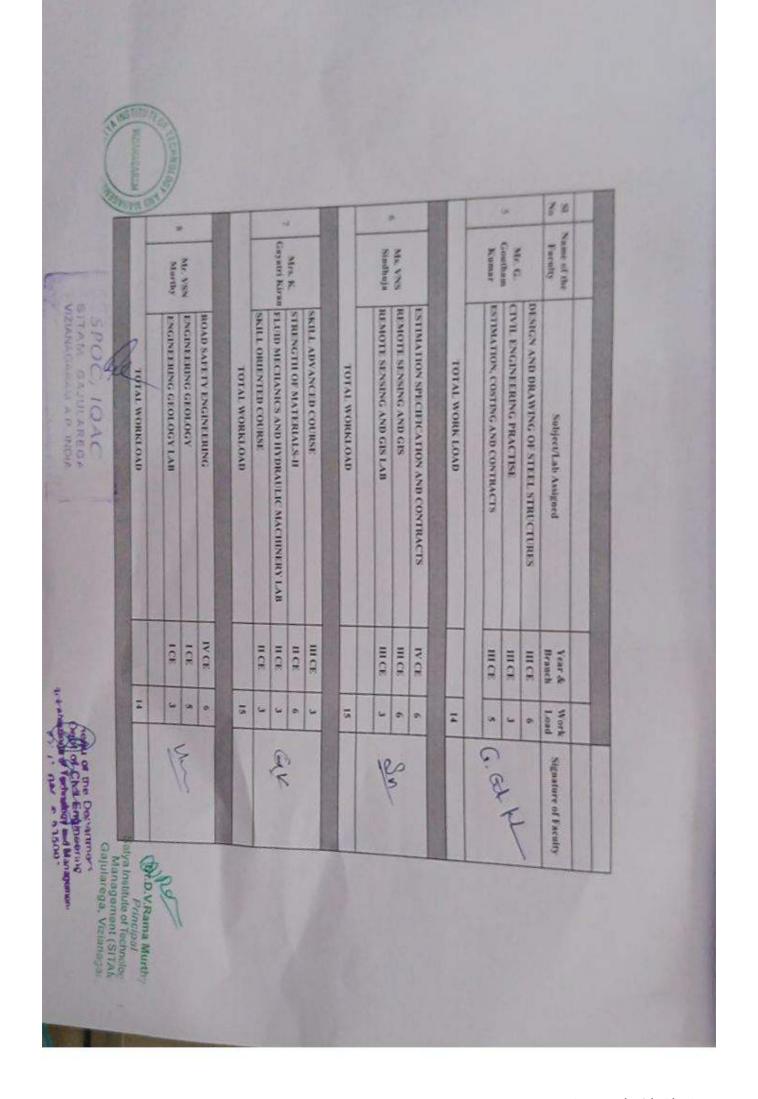
		2022-23(I SEM) FACULTY WISE WORKLOAD						
SI No	Name of the Faculty	Subject/Lab Handled	Year& Branch	Work Load		Signature of		
1	Dr K.SREELATHA	MATHEMATICS-I	I CSE-A	6	12	Delu		
		MATHEMATICS-IV	II CIVIL	6	**			
2	Dr B.SRINIVAS	MATHEMATICS-I	I ECE	6		Bee		
		MATHEMATICS-I	I MECH,EEE & I CIVIL	6	17			
		OPERATION RESEARCH	II MBA	5				
3	Dr G.SRICHANDANA	MATHEMATICS-I	I AI&DS	6		135/		
		MATHEMATICS-IV	IV EEE	6	17			
		MATHEMATICS-I	I ECE	5				
4	Mrs D.VASANTA VICHIKALA	MATHEMATICS-III	II-ECE	6		Ø		
		QUANTITATIVE ANALYSIS AND BUSINESS DECISIONS	I MBA	6	18			
		MATHEMATICS-II	IEEE	6				
5	Lt M.VARALAKSHMI	APPLIED CHEMISTRY	LECE	6		H.V. COL		
		APPLIED CHEMISTRY LAB	LECE	6				
		APPLIED CHEMISTRY	IDVOC	5	17			
		ENVIRONMENTAL SCIENCE	I AI&DS	3	20			

			aspert Color	1	4	garis
		THE REPORTS	TMEC	6.	18	
6	Mrs J.S.SAILAJA	ENVIRONMENTAL SCIENCE	I AIA DS	6		
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		APPLIED CHEMISTRY LAB	TOVOC	1		
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	Sri K.GOPALAKRUSIENA		LAIADS	-		
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-	Mr A.ANILKUMAR	BASIC MATHEMATICS I DVC	IDVOC			Par
		MATHEMATICS-III	n CSE	5	18	
200		MATHEMATICS-III	II MECH	5		
11		MATHEMATICS-I (TUTORIAL)	I Al&DS, I ECE	2		
		MATHEMATICS-II (TUTORIAL)	I EEE(M-II)	1		
12	Mr A.SRINIVASA RAO	QUANTITATIVE MATHEMATICAL	I BBA	5		
		MATHEMATICS-III	II AI&DS	5	0	Same
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		MATHEMATICS-I (TUTORIAL)	LEEE	1		









## SITAM

# SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Capularega, Vizianagaram, Andhra Pradesh, India 535002

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# DEPARTMENT OF MECHANICAL ENGINEERING

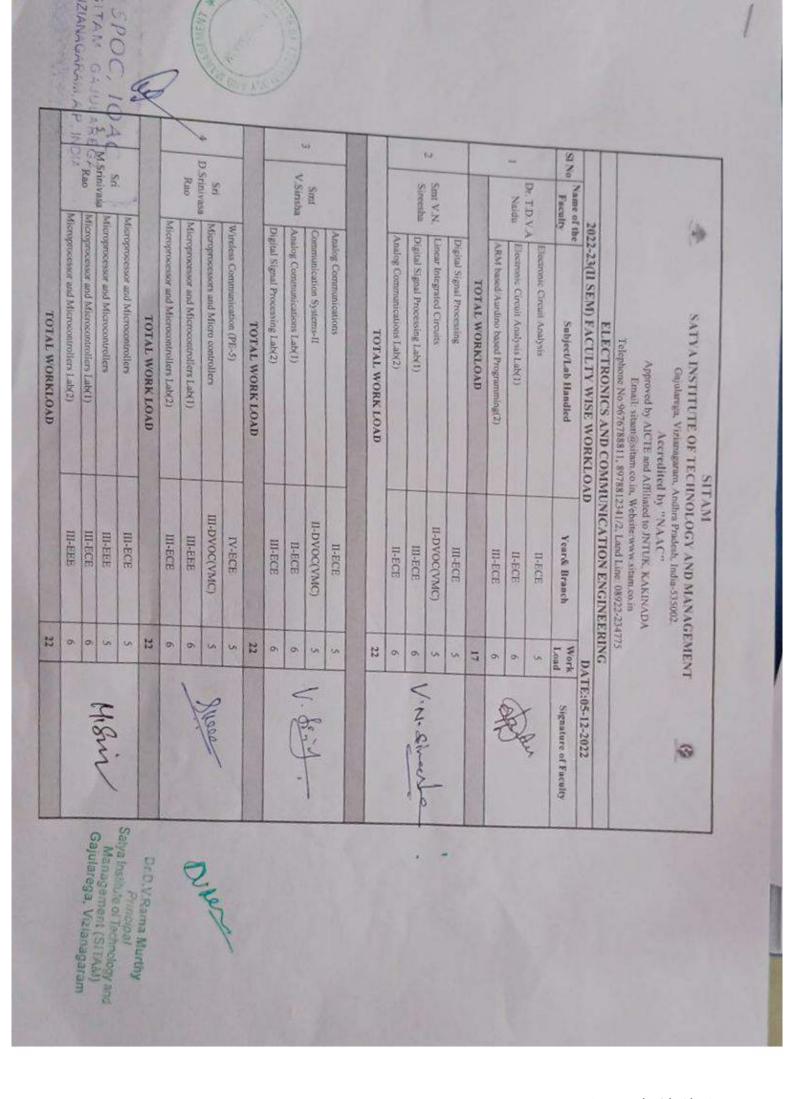
# 2022-23-1 SEMESTER SUBJECT ALLOCATION -FACULTY WISE

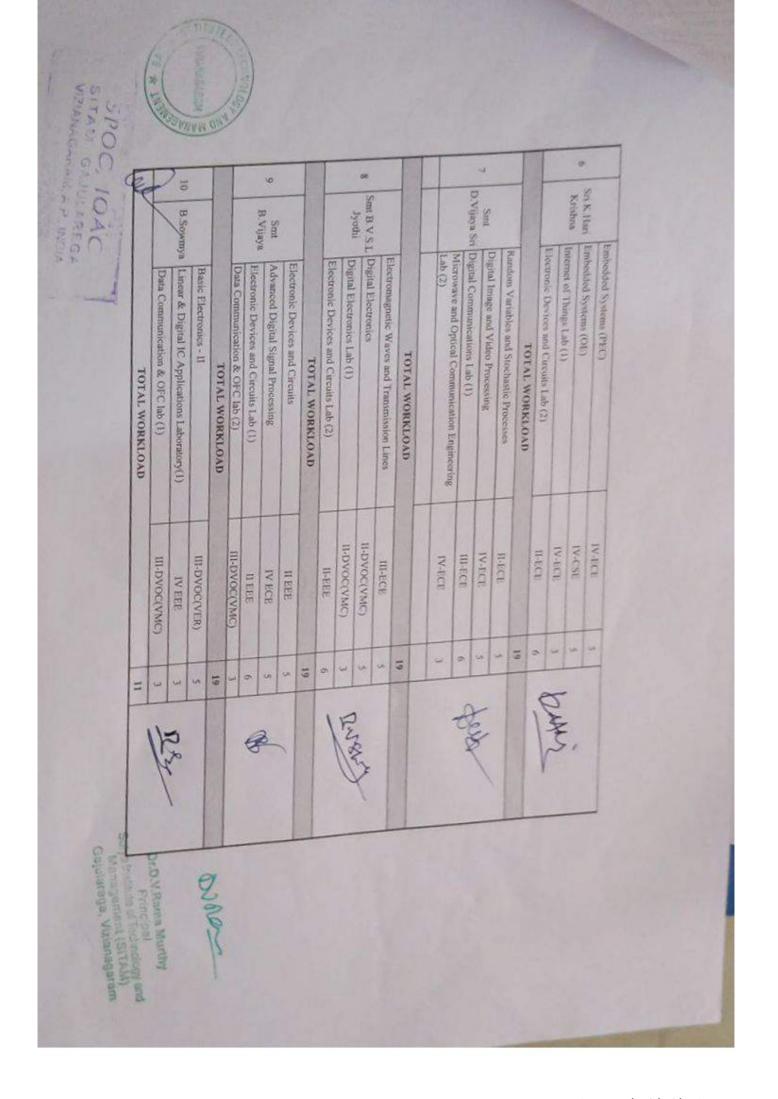
ACAD	EMIC YEAR: 202.	2-23 SEMESTER-ODD	Year &		Signature of
SI No	Name of the Faculty	Subject/Lab Assigned	Branch	Work Load	Faculty
	1,00,000	Production Technology	II ME	5	- 1
		Production Planning &Control	IN NE	5	Caland
1	CH.V. Lakshmi	Drafting and Modelling Lab(2)	II ME	6	China
		TOTAL WORKLOAD		16	
			1 ECE	6	1
		Engineering Drawing	1 EEE	6	a 10
2	CH.V.M. Prasad	Engineering Drawing	III MECH	3	onto
		Machine tools lab	III MEUN		
	1	TOTAL WORK LOAD		15	
	S. Prasanth	MEMS	IV ME	5	
3		Design of Machine Members-I	HI ME	5	240
		Drafting and Modelling Lab	пме	- 6	5 Prosonth
1	Т	OTAL WORK LOAD		16	
		Kinematics of Machinery	3M II	5	2
	Dr. P.	Production technology lab	III ME	6	QC-3/2
S	hreenivasa Rao	Engineering Drawing	I ME& I CIV	6	20%.
1					
		OTAL WORK LOAD		17	- AND
4	CONTROL OF THE PARTY OF THE PAR	SPOC, IOAC SITAN GASULAREGA VIZIANAGARIANI AP INDIA	1		Principal Principal Principal MAR of Technology MAR OF TECHNOLOGY

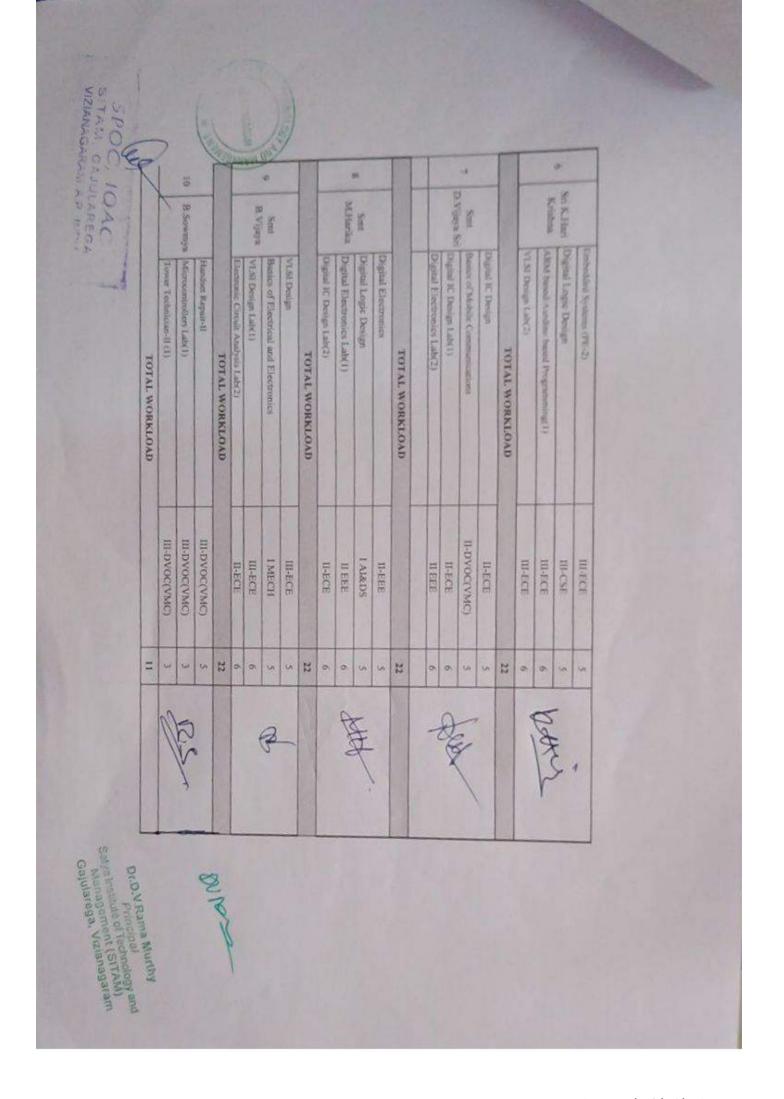
-	Name of the Faculty	Subject/Lab Assigned	Year & Branch	Work Load	Signature of Facult
		Industrial Management	IV ME	5	N
×		Machining machine tools and metrology	III ME	5	61
8	N. Murali Krishna	Machine tools lab	III ME	6	(2)
					4
		OTAL WORK LOAD		16	
۳					10000
		Advanced Materials	III ME	5	
6	M. Jaya Prakash	Mechanics of Solids	IIME	5	Soft
		Finite element simulation lab	IV ME	6	
	1	OTAL WORKLOAD		16	
	K.E.Jagadish	Finite Element Methods	IV ME	5	
7		Operation Research	III ME	5	1
		Finite element simulation lab	IV ME	3	W
	7	OTAL WORKLOAD		13	
		Power plant engineering	IV ME	5	
	-	Fluid Mechanics and Hydraulic Machines	II ME	5	115
	D. Chaitanya	FMHM Lab	II ME	3	0
V	T	OTAL WORKLOAD		13	
90				20	NAME AND DESCRIPTIONS
M		FMHM Lab	II ME	3	
		Thermal Engineering -2	III ME	5	orn to
	G Surya chandra	Thermal Engineering Lab	III ME	6	190
1	TO	OTAL WORKLOAD		14	
Contract of the second	VIEMINGARAM E	SPOC IQAC SITAN GAJULAREGA VIJIANASABAMAP, NISIA	DI NUE	tama Mu dys mnoipal mooi factorolog to of factorolog to of factorolog to of factorolog to of factorolog to of factorolog to of factorolog	lager

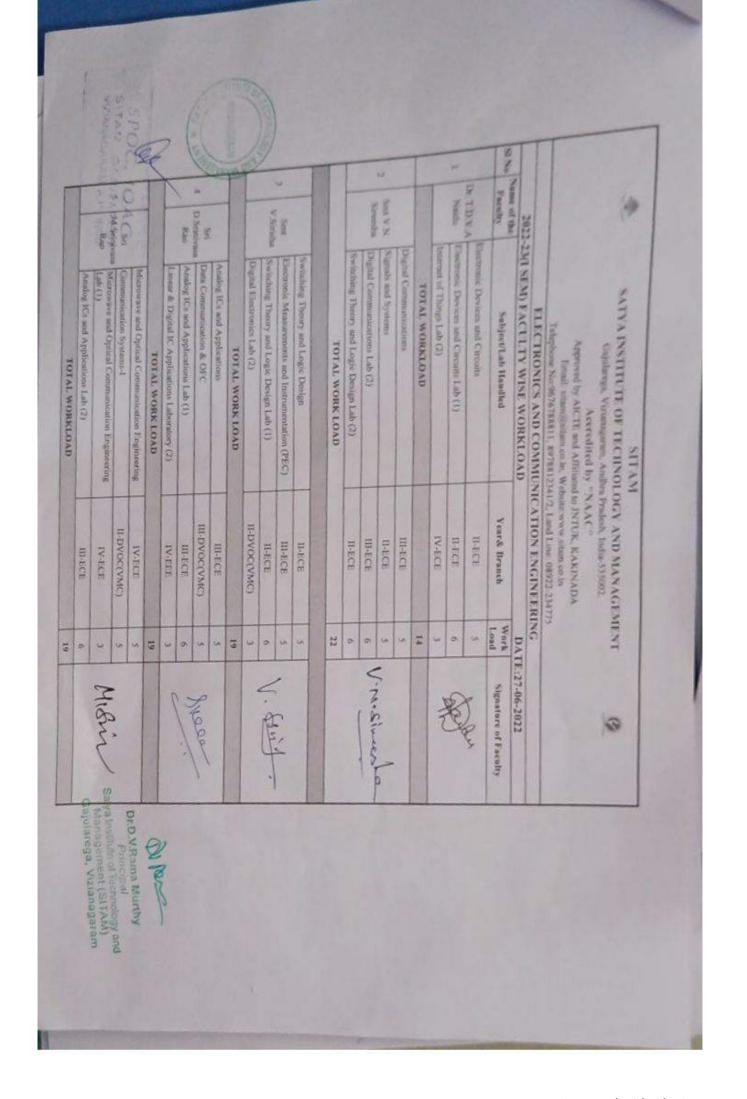
### SITAM SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Calciforgia Vistanagaram, Anthra Fradrick, Salta 535003. Accredited by 'NAAC' Approved by ANCE and Additional to INTUS, KAKIMADA Email alternityleam in in Website www.attam.on.in Telephone No.467s 788011 SYTHELEBAL/2 Land Line 68973 25A775 DEPARTMENT OF MECHANICAL ENGINEERING 2012-13: II SEMESTER SUBJECT ALLOCATION FACULTY WISE SEMESTER-EVEN ACADIEMIC YEAR 2012 23 Signature of Faculty Work Load Year & Brunch Name of the Faculty Subject/Lab Assigned 53 No DYNAMICS OF MACROSCRY IN SEE II ME PYTHON PROGRAMMING CSCV. Laforhimi 31 TOTAL WORKLOAD 5 III ME HEAT TRANSFER IMERICE -ENGINEERING MECHANICS CH.V.M. Prassed EU ME HEAT TRANSFER LAB 17 TOTAL WORK LOAD 5 DESIGN OF MACHINE MEMBERS II MAME 5 IV ME S. Prasanth 6 HME THEORY OF MACHINES LAB 16 TOTAL WORK LOAD III ME RESEARCH METHODOLOGY &IPR 6 HME MACHINE DRAWING PRACTICE Dr. P. Shreeniyasa Rao III ME 6 MEASUREMENTS & METROLOGY LAB 15 TOTAL WORK LOAD Work Load Signature of Faculty Year & Branch Subject/Lab Assigned Name of the Faculty 51 No ENTREPRENEURSHIP DEVELOPMENT IV ME III ME INDUSTRIAL ENGG AND MANAGEMENT N. Murali Krishna 6 IME ENGINEERING WORKSHOP 16 TOTAL WORK LOAD IV ME NON DESTRUCTIVE TESTING 3 HIME CAD/CAM M. Jaya Pralcash 6 II ME MOS & METALLURGY LAB 3 III ME CAD/CAM LAB (2) 19 TOTAL WORKLOAD IV.ME TOTAL QUALITY MANAGEMENT

1		MATERIAL SCIENCE AND ENGINEERING	II ME	5	7 ,
	K.E.Jagadish	PYTHON PROGRAMMING	II ME	6	
		MOS & METALLURGY LAB (2)	II ME	6	
-	т	OTAL WORKLOAD		17	
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T		ADDITIVE MANUFACTURING	IV ME	5	111
		THERMAL ENGINEERING -1	11 ME	6	ply
	D. Chaitanya	CAD/CAM LAB	HI ME	3	
		HEAT TRANSFER LAB (2)	III ME	3	
_		TOTAL WORKLOAD		17	
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		AUTOMOBILE ENGINEERING	III ME	.5	10 000
	a country.	MACHINE DRAWING PRACTICE (2)	II ME	6	- Xun
	G SURYA				100
		TOTAL WORKLOAD		11	
	(51)	POC IQAC	Dr.D.V.Rama Mi principal p	nnology and (SITAM) (anagaram	adacet







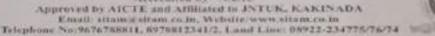


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1	Mr. S. Yazarda Krishma	Software Engineering Lists	CSE	4.1	5		
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		Software Engineering		1		THE PARTY	20000
2	Mr.D.Avinash	Software Engineering Lab  Commous Integration and Continous Delivery using Dev Ops  Continous Integration and Continous Delivery using Dev Ops	CSE	2-1	3	-	No.
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		Continous Integration and Continous Delivery using Dev Ops	AVADS	3-1	3	1235	DANIN
		Operating Systems		3-1	3		
133		Operating Systems Lab	CSE	2-1	100	-	-
2	Mr.G.Sridhar	Operating Systems	CSE	2-1	3		
	A LIKELL	Operating Systems and Compiler design lab	AIEDS	3-1	5	19	aside
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		Web Application Development using Full stack Compiler Oragin	CSE	2-1	-	-	
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13	Ms.B.Priyanka	Mechine Learning	Al&D5	3-1	-		
		Python Programmons for	CSE	4-1		19	
		Object Oriented Programming with para lab	FCE	3/1	377	11,792	to tropul
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		Machine Litaining Lab	ECL	1/1	3		1000
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### SATVA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Gajutarega, Virianagaram, Andres Pradesh, India-535002. According by "NAAC"





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Subject Abecation for the Abedemic Year 2022-23-Sem it YEAR & WORK S.No. Name of the Faculty Work Loads Branch Total Signature Sem Lord Data Struttures CSE(A) Dr.S. Versu Madhasir Oata Structures Lab CSE(A) aven 216 Rati CM(B) Data Structures Data warehousing and Mining AIADS 2.2 Data Mining tab using python AHEDS Data Structures: A)A05 12 Mr.M. Madhu Babu 22 Melodia Data Structures Lab AUGIDS R Programming Lab Rabar CSE R Programming Lab A15.05 Cryptography and Network Security 명 Cryptography and Network Sceunty Lab Computer Networks AIRDS. 3-2 Mr.T.Anji Kumar 22 TANG Kerin Computer Networks Lisb AIADS 3/2 Web Application Development Using Full Stack ANGES! Web Application Development Lab 2-2 Machine Learning EEE 3.2 Web Technologies THE My.K. Tasoda Krishna Object Differented Programmung Through laves ECE 1.2 Esbushen Compiler Design Lab 32 brighma Advanced Cyber Security IVAC flig Data Analytics AUSDS 3-2 Big Data Analytics Lab NEDS By Data Analytics Mr.Y.Dinesh Mean Stack Technologies Y. Diview 12 Machine Learning using Python Lab Kunan 39 CSA Artificial traditioners & Machine Learning Lab MECH Mean Stack Technologic ALEDS 3.2 oftware Project Management **AUADS** 3-7 Mr.D.Avinash Cryptography and Network Security Lab ESSE **16**: Departure omputer Networks Lab AI805 3.2 lest time Operating System (VAC) Parlan 30 Database Management Systems CH 2.2 3 Database Managament Systems Lab 2.2 Python Programming 2 Mr.G.Sridhar NÃOS Python Programming Lab 22 G. Swillen AUBDS 1-2 Cata Structures Lab. CSE(A) 1-2 Duta Structures Lab CSECRE 3-2 Compiler Design CSE 3-2 Compiler Design Lab CSŁ Fragrumming for Problem Solving Hung C Ms.R.Swetha CIVIL Programming for Problem Solving Dung Citab 22 Residence CIVIL Java Programming Lab CSE Tython Programming Lab 22 EEE

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Mr.F.Praveon

Deep Learning with Temps flow

Mean Stack Technologies

Cyber Security and Cryptography

Programming Cota Sinuctures and Algorithms using Python (VAC)

Dr.D.V.Rama Murthy
Principal
Principal
Satya Institute of Technologies
Management (S.T.
Gajulatoga, Vizianog

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	Mr.R.Bangari	Design and Analysis of Algorithms	AIRDS	3.2	5	1	
		Big Data Analytics	CSE	4-2	5	4	10000
30		Data Structures Through C	EEE	1.2	5	20	02
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		Real Time Operating System (VAC)	AI&DS	3-2	2	1	
-		Computer Networks	-				NO.
		Computer Networks	ECE	3-2	5	-	100
11	Ms.A.Sophia	MongoDB	AISOS	3-2	5	- 00	Asylva
		Ocep tearning with Tensor flow	AISDS	3-2	3	18	
	Annual Control of the	Programming, Data Structures and Algorithms using Python (VAC)	CSE	2-2	3	-	
			100	200	-	1	
		Machine Learning	CSE	3-2	5		
	13.13.14	Machine Learning using Python Lab	CSE	3-2	3	1	
12	Ms.B.Priyanka	Artificial Intelligence & Machine Learning	MECH	3-2	5	1	W. K. W. W.
		Artificial Intelligence & Machine Learning Lab	MECH	3-2	3	22	Equipe
		Data Mining lab using python	AI&DS	2-2	3	1	
-		Data Structures Lab	AI&DS	1-2	3		-
	Mr.V.Kiran Kumar	Java Programming	CSE	2-2	5		
		Java Programming Lab	CSE	2-2	3		2) Hreus
13		Python Programming	EEE	2-2	5	22	
		Python Programming Lab	EEE	2-2	3	-	tunc
		Database Management Systems Lab	CSE	2-2	3		Lunce
100		Python Programming Lab	Al&DS	1-2	3		
		Web Application Development Using Full Stack	CSE	2-2	3		
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4		Web Application Development Lab	AI&DS	2-2	3	1	1 - 7
-	Mr.I.Gayathri	Computer Organization	CSE	1-2	5	22	I agallu
	1000	Big Data Analytics Lab	AI&DS	3-2	3		0
		Mean Stack Technologies	CSE	3-2	3		
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		Formal Languages and Automata Theory	CSE	2-2	5		
5	Ms.E.Sravya	R Programming Lab	CSE	2-2	3	16	10
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6	Ms.S.Ratna Kumari	E Commerce	MBA BBA	2-2	2	8	s Rohia

HEAD THE DEPARTMENT

SPOC, IQAC SITAM GAJULAREGA VIZIANAGANAMAP INDIA



Dr.D.V.Rama Murthy

Dr.D.V.Rama Murthy

Principal
Principal
Salya Institute of Technology and
Management (Sit Aid)

Gajularega, Vizienagaram

Gajularega, Vizienagaram

#### SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT Deplacego, Villanagaram, Andhya Pradesh, India 535002 Accredited by "NAAC" Approved by AICTE and Affiliated to JATUOY YUMANAGARAAA Email pramitintam color, Website www.sfam.co.m Telephone No.7676788811, 8978812541/2, Land Live 08922 284775 DEPARTMENT OF MANAGEMENT STUDIES SUBJECT ALLOCATION -FACULTY WISE DATE 13-03-2023 ACADEMIC YEAR 2027-23 Year & 80 DEPT Work Load Signature of Faculty Name of the Faculty Subject/Lab Assigned Branch OF STRATEGIC HUMAN RESOURCE MANAGEMENT 2-2 M8A DR.S.V.VAROODRINI 1-2 MBA A 8 TOTAL WORKLOAD MEA 4 DR.F.V.HAVIKUMAS SUPPLY CHAIN MANAGEMENT AND ANALYTICS 2-2MBA TOTAL WORK LOAD 4 STRATEGIC FONANCIAL MANAGEMENT 4 2-2 MBA MINALL PRIAVANKA FINANCIAL MANAGEMENT 1-2 MSA A TOTAL WORK LOAD 8 BEHAVIOURAL FINANCE 2-2 MBA 4 z Mr.T.RAMANA **BUSINESS RESEARCH METHODS** 1-2 M8A 4 MANAGEMENT AND ORGANISATION BEHAVIOUR 4-2 CSC 5 TOTAL WORK LOAD 13 MEA EMPLOYEE RELATION AND ENGAGEMENT 2-2MBA 4 Ms.M.Prasanna HUMAN RESOURCE MANAGEMENT 1-2MBA 4 8 TOTAL WORK LOAD MBA INNOVATION AND ENTREPRENEURSHIP 2-2 M8A 4 Mrs V Deroika ZeKS **OPERATIONS MANAGEMENT** 1-2 M8A TOTAL WORK LOAD 8 Year & SINO Name of the Faculty Subject/Lab Assigned Work Load Signature of Faculty Branch MEA INTERNATIONAL HUMAN RESOURCE MANAGEMENT 2-2 M8A 4 PROJECT MANAGEMENT TECHNOLOGY 1-2MBA 4 TOTAL WORK LOAD 8 HUMAN RESOURCE DEVELOPMENT 2-2 M8A TA MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTS 2-2 EEE **TALLER** Mo.B.IVODB 2-2 CSC MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTS 2-2 AI&DS 5 TOTAL WORK LOAD 19 ECHNOLOG Salya Institution Technology and Management (SITAM) Gajularega, Vizianagaram MARAGARAM

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### SITAM SATYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT. Gapthrega, Victoriager et , Anchris Pratjeck, India 5,35002 Accredited by "NAAC" Approved by ANTS and Afficiend to INTURY VIJIANAGARANA treat anamignous cars. Welcone www.com.co.co. Telephone we note went sursely sally, continue denil apares. DEPARTMENT OF MANAGEMENT STUDIES. SUBJECT ALLOCATION FACULTY WISE ACADEMIC YEAR 2012-21 DATE: \$3 01 7073 DEPT OF SONI Name of the Faculty Subject/Lab Assigned Year & Branch FACULTY Work Land Signature of Faculty MILA. BRULT VARIOUSHING MUREAN RESOURCE METRICS AND ANALYTICS. T-ILMIKA TOTAL WORKLOAD 3624 NO THAMANA TAXATION T-I MINA TOTAL WORK LOAD MANPOWER PLANNING, RECRUITMENT AND 248A 2-5 SHR.R. á. Me M.Pysonesis TOTAL WORK LOAD Ä MUA FEHANCIAL MARKETS AND SERVICES 2-4 MILA MircY. Despites PERFORMANCE EVALUATION AND 2-1 MIIA TOYAL WORK LOAD 31.74 Name of the Farmity Subject Cale Amigned Year & Branch Work Land Alli-s STAINE SHEE AND CHANGE MANAGEMENT 2-1 MB/S 4 Mr.N. Practice TOTAL WOME LOAD T-LMBA MAKA SECULIA VOTAL TOTAL WORK LOAD MANAGING BANKS AND FINANCIAL PARTITUTION 2H MBA MACK GAYATHRE Sino TOTAL WORK LOAD COURT DONE BEST ANCH H& 25 CHEANEHANA 3-4 568.6 TOTAL WORKLOAD DLO.V.Rung KCHAD Satyana Mula Promotogy and Miniagement (SITAM) Gajularega, Vizianagaram