## **Teaching Plan**

Semester: 6th
Branch: Chemical Engineering
Subject: Chemical Reaction EnggI
Subject Type: Theory
Workload: 04 hrs/week

Lect.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching
01	1.1	Subject Introduction -Type of Reaction	Dec. 2017	3	PPT
02	1.2	Rate equation and representation,		3	PPT
		order, molecularity, rate constant			
03	1.3	Elementary and non elementary		4	PPT
		reaction & kinetic model			
04	1.4	Kinetic model of non elementary		4	PPT
		reaction			
05	1.5	Searching mechanism & rate		4	Chalk & Board
		controlling step			
06	1.6	Numerical on rate, order, rate consent		4	Chalk & Board
		of reaction			
07	1.7	Numerical	Jan. 2018	1	Chalk & Board
08	1.8	Numerical on mechanism of reaction		1	Chalk & Board
09	2.1	Constant volume batch reactor		1	PPT
10	2.2	Integral method of analysis – 1ts order,		1	PPT & Chalk &
		2 <sup>nd</sup> order, nth order, Half life			Board
11	2.3 reaction in series, reaction in parallel		2	PPT & Chalk &	
					Board
12	2.4	Autocatalytic & reversible reactions,		2	PPT & Chalk &
		Differential analysis			Board
13	2.5	Numerical		2	Chalk & Board
14	2.6	Numerical		2	Chalk & Board
15	2.7	Design equation of variable volume		3	PPT & Chalk &
		batch reactor			Board
16	2.8	Numerical		3	Chalk & Board
17	3.1	Introduction, Performance eq. of Batch		3	PPT
		Reactor, CSTR, PFR			
18	3.2	Space time and space velocity;	V	3	Chalk & Board
		Numerical on CSTR			
19	3.3	Numerical on PFR		4	Chalk & Board
20	3.4	Size Comparison, series & Parallel		4	PPT
		reactor			
21	3.5	MFR in series & parallel for equal &		4	PPT & Chalk &
		different sizes; Reactors of different			Board
		types in series			
22	3.6	Recycle, autocatalytic reaction;		4	PPT & Chalk &

	a .	Numerical			Board
23	3.7	Numerical	Feb.18	1	Chalk & Board
24	3.8	Numerical		1	Chalk & Board
25	4.1	Parallel and series reaction		1	PPT
26	4.2	Performance of various ideal reactor (PFR & MFR) for multiple reaction		1	Chalk & Board
27	4.3	Qualitative and Quantitative discussion for series reaction		2	PPT & Chalk & Board
28	4.4	Qualitative and Quantitative discussion for parallel reaction		2	PPT & Chalk & Board
29	4.5	Instantiations & overall fractional yield		2	Chalk & Board
30	4.6	Numerical		2	Chalk & Board
31	4.7	Numerical		3	Chalk & Board
32	4.8	Numerical		3	Chalk & Board
33	5.1	Temp. dependency from Arrhenius law, thermodynamics,		3	PPT & Chalk & Board
34	5.2	Collision & transition state theory		3	PPT & Chalk & Board
35	5.3	Comparison of theories, rate predicted by theories		4	PPT & Chalk & Board
36	5.4	Numerical		4	Chalk & Board
37	5.5	Numerical		4	Chalk & Board
38	5.6	Heat of reaction & equilibrium const. from thermodynamics		4	PPT & Chalk & Board
39	5.7	Graphical design procedure, Heat effects	March 18	1	PPT & Chalk & Board
40	5.8	Adiabatic & non-adiabatic operation		1	PPT & Chalk & Board
41	6.1	Self mixing of single fluid & two miscible units, RTD		1	PPT & Chalk & Board
42	6.2	F,C,E curve and relation between them		1	PPT & Chalk & Board
43	6.3	Numerical		3	Chalk & Board
44	6.4	Numerical		3	Chalk & Board
45	6.5	Dispersion model		3	PPT
46	6.6	Tank in series model		3	PPT
47	6.7	Segregation flow model		4	PPT
48	6.8	Numerical	1	4	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2.Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Dr. B.L. Pangarkar)

Subject In charge & HOD -Chemical Engg.

409341: Chemical Reaction Engineering-II

Teaching Scheme: Lectures: 3 h / week

**Examination Scheme:** 

In Semester: 30 End Semester: 70

Total: 100

# Term I, June 2017 through Dec. 2017, Academic Year 2017-18

Lect.	Month Week Dates Name of Topi		Name of Topic		
No.			Desistant's QD		
		15-17	Registration SE		
		13-17	Registration TE		
			Registration BE		
1			Unit-1: Heterogeneous Reaction: Type, Rate & contacting		
			pattern, Fluid – Particle Reaction: Selection of model		
2	JUNE	19-24	Unreacted core model of spherical particle – gas diffusion &		
3	JUNE		Ash layer control		
4			Chemical reaction control & shrinking particle-gas diffusion		
5			Application to design- solid –fluid reactor design		
6			Fluidized bed with entrainment of solid fines		
- 12		27-30	Numericals		
7			Numericals		
8			Unit-II: Fluid – fluid reaction- Kinetic regimes (case A-H)		
9			Rate equations-Instantaneous & fast reaction		
10		3-8	Rate equation- slow & infinite slow reaction		
11				Slurry reaction kinetics and aerobic fermentation	
12			Tower design- with & without mass transfer & Numericals		
13		10-14	Numericals		
14			Mixer settler & contacting pattern, Reactive distillation and		
			extractive reaction		
15			Unit-III: Adsorption- surface chemistry, Isotherm		
16	JULY		BET Methods		
17	JOLI	_	Numericals		
18		17-22	Void volume, solid density, pore volume distribution		
19		17-22	Catalyst selection, preparation & its deactivation		
20			Poisoning and regeneration		
			UNIT TEST - 1 (24 <sup>th</sup> to 26 <sup>th</sup> )		
		24.20	UNIT TEST – 1		
		24-29	UNIT TEST – 1		
21			Nature and mechanism of catalytic reaction		
22		31	Unit – IV : Gaseous diffusion in single cylindrical pore		
23			Diffusion in liquids, in porous catalyst, surface diffusion		
24	August	1-4	Mass transfer with reaction- Effectiveness factor of cylindrical pore		
25			Effectiveness factor of spherical pore		
_			IN SEM Exam Preparation		
		8-12	INSEM Exam (8 <sup>th</sup> to 12 <sup>th</sup> )		
			INSEM Exam (8 <sup>th</sup> to 12 <sup>th</sup> )		

			INSEM Exam (8 <sup>th</sup> to 12 <sup>th</sup> )
	,		INSEM Exam (8 <sup>th</sup> to 12 <sup>th</sup> )
			INSEM Exam (8 <sup>th</sup> to 12 <sup>th</sup> )
26			Experimental and calculated effectiveness factor
27	50		Selectivity for porous catalyst
28		14-18	Rates for poisoned porous catalyst
29			Unit-V: Rate equation of Solid catalyzed reaction
30			Experimental method for finding the rate of reaction
31			Determination of controlling resistance and rate equation
32		21-26	Numericals
33			Numericals
34			Numericals
35		2-2-5-3	Product distribution in multiple reaction
36		28-31	Unit-VI : Fluidized bed reactor
37			Fixed bed reactor
38		1	Slurry reactor
39			MM kinetics
40			Inhibition by foreign substances
		4-8	UNIT TEST – II (6 <sup>th</sup> to 8 <sup>th</sup> ) UNIT TEST – II (6 <sup>th</sup> to 8 <sup>th</sup> )
			UNIT TEST – II (6 <sup>th</sup> to 8 <sup>th</sup> )
			UNIT TEST – II (6 <sup>th</sup> to 8 <sup>th</sup> )
41			Numericals
42		ara ara	Numericals
-		11-15	End Sem Exam Preparation
_	September		End Sem Exam Preparation
-		1	Remedial Class
-			Remedial Class
_	(A	18-23	Remedial Class
-			Remedial Class
			Remedial Class
_			Remedial Class
-		25-29	Remedial Class
_			Remedial Class
	October	9-14	Pre final Exam 9 <sup>th</sup> to 14 <sup>th</sup> Final
		18	Final submission BE & Conclusion of Teaching SE/TE/BE

(Dr. B.L. Pangarkar) Sub I/C & HOD

Computer Eugs. Dept. 210244: Computer Organization and Architecture

Teaching Scheme: Lectures: 4 h / week **Examination Scheme:** 

Online: 50 marks

End Semester: 50 marks

Total: 100

#### Term I, June 2017 through Dec. 2017, Academic Year 2017-18

Lect. No.	Month	Week Dates	Name of Topic
	1111-11		Registration SE
	rust; s.e.f-fi	15-17	Registration TE
			Registration BE
1			<b>Unit-I:</b> Computer Organization and Architecture, Structure and Function, Evolution (a brief history) of computers, Designing for Performance,
2		19-24	Evolution of Intel processor architecture- 4 bit to 64 bit, Performance assessment.
	Lyona Liberry,	5 100 mm m	A top level view of Computer function and
3		100	interconnection- Computer Components,
4	JUNE		Computer Function, Interconnection structure, bus interconnection,
5.		y	Computer Arithmetic- The Arithmetic and Logic Unit, addition and subtraction of signed numbers,
6		27-30	Design of adder and fast adder, carry look ahead addition, multiplication of positive Numbers, signed operand multiplication, booths algorithm, fast multiplication,
7			integer division.  Floating point representation and operations – IEEE standard, arithmetic operations,  Guard bits and truncation. Assignment-I
9	JULY		<b>Unit-II:</b> Characteristics of memory system, The memory hierarchy.
10	7	Land Market	Cache Memory- Cache memory principles
11		3-8	Elements of cache design- cache address, size, mapping functions, replacement algorithms, write policy, line size, number of cache,
12	distribution.	119	one level and two level cache, performance Characteristics of two level cache- locality & operations.
13		10-14	Case Study- Pentium 4 cache organization.
14			Internal Memory- semiconductor main memory, advanced DRAM organization.
15	*   1 S 1 I	) use have "l	External Memory- Hard Disk organization,
16			RAID- level 1 to level 6. Assignment-II

			Design Issues- instruction level and machine parallelism,		
			Instruction issue policy,		
			UNIT TEST – II (6th to 8th)		
			UNIT TEST – II (6th to 8th)		
			UNIT TEST – II (6th to 8th)		
38			register renaming, machine parallelism, branch prediction,		
39		11-15	Superscalar execution and implementation.		
40		11-15	Case study- Pentium I1V.Assignment-V		
41			Unit-VI: Fundamental Concepts- register transfer,		
42			performing arithmetic or logic operations,		
42			fetching a		
43			word from memory,		
44		18-23	storing a word in memory, Execution of a complete		
44		Charles to speak	instruction- branch instructions,		
45	1	7,	Hardwired control, Micro-programmed control- micro		
45			instructions, micro program sequencing,		
46			wide branch addressing,		
47			microinstruction with next address field,		
48		25-29	pre-fetching microinstructions and emulation. Assignment-		
40			VI		
49			Remedial Class		
		9-14	Pre final Exam 9 <sup>th</sup> to 14 <sup>th</sup> Final		
	October	18	Final submission BE & Conclusion of Teaching SE/TE/BE		

(Prof. Dhokane R.M.) Sub I/C

(Prof. K.N. Shedge) HOD

(Dr. S.N. Shelke) Principal

Computer 5rg. Dept

#### **Teaching Schedule**

310244: Information Systems and Engineering Economics

**Teaching Scheme:** Lectures: 3 h / week

**Examination Scheme:** 

In Semester: 30 End Semester: 70

Total: 100

Term I, June 2017 through Dec. 2017, Academic Year 2017-18

Mont h	Week Dates	Name of Topic
		Registration SE
	15-17	Registration TE
		Registration BE
		Unit-I Role of Information Systems in Organizations,
		The Information System Manager and his
JUNE	19-24	challenges, Concepts of Information Systems, Information Systems
147		and Management Strategy
		Concepts of Information Systems, I
		Case Studies - Information Systems in the Indian Railways,
	27-30	Information Systems in an e-Commerce Organization.
		Advantages & Drawbacks in an e-Commerce Organization.
50		Information Systems and Management Strategy
	3-8	Unit-II Managing Information Systems
		Ethical and Social Issues,
		Information Technology Infrastructure and Choices,
	10-14	Information Systems Security and Control,
*****		Case Studies -Information Technology Infrastructure in a Bank,
JULY	17-22	Case Studies -Information Technology
		Infrastructure in a manufacturing / process industry.
		Unit-III Information Systems Development and Project Management
	The least the last	UNIT TEST – 1 (24th to 26th)
	24-29	UNIT TEST – 1
		UNIT TEST – 1
		Managing Data Resources
	1-4	Business Process Integration and Enterprise Systems
		ICT for Development and E-Governance,
Ī		Case Studies - in-house or cloud based ERP implementation
4.0		UIDAI Unique Identification
	7-12	Authority of India.
Augus		INSEM Exam (11th to 19th)
t		INSEM Exam (11th to 19th)
		INSEM Exam (11th to 19th)
		INSEM Exam (11th to 19th)
	14-18	INSEM Exam (11th to 19th)
5		INSEM Exam (11th to 19th)
	21-26	UNIT- IV Engineering Economic Decisions,

		Lating K Lating
	-	Time Value of Money
		Understanding Money Management
		Case Studies- Economic decisions done in Multi-national companies.
	28-31	Case Studies- Economic decisions done in Multi-national companies.
		Case Studies- Economic decisions done in Multi-national companies.
	I	Case Studies- Economic decisions done in Multi-national companies.
		UNIT-V Equivalence Calculations under Inflation,
		Present-Worth Analysis,
	4-8	UNIT TEST – II (6 <sup>th</sup> to 8 <sup>th</sup> )
		UNIT TEST – II (6th to 8th)
(84)		UNIT TEST – II (6th to 8th)
		Annual-Equivalence Analysis.
	11-15	Annual-Equivalence Analysisdrawbacks
	11-13	Case Study-I-comparative analysis of software enterprises from
Septe		relevant domains.
mber		Case Study-II-comparative analysis of software enterprises from
		relevant domains.
	18-23	Case Study-III-comparative analysis of software enterprises from
		relevant domains.
		UNIT-VI Accounting for Depreciation and Income Taxes,,, Case
		Accounting for Depreciation and Income Taxes S/W
		Project Cash-Flow Analysis
	25-29	Project Cash-Flow Analysis in various organizations
		Understanding Financial Statements, Studies - cash flow analysis
		done in start-up companies.
	9-14	Pre final Exam 9th to 14th Final
Octob		
er		
	18	Final submission BE & Conclusion of Teaching SE/TE/BE
		That submission be & Conclusion of Teaching SE/TE/BE

(Prof. U D Butkar ) Subject I/C (Prof. K.N Shedge) HOD

(Dr. S.N Shelke) Principal

Suns

Academic Year: 2017-18	Semester: 4 <sup>th</sup>
Course: UG	Branch: Electrical Engineering
Class : SE	Subject: Electrical Machine-I
Subject Code: 203146	Subject Type: Theory
Name of Teacher: Prof. Kiran.P. Varade	Workload: 04 hrs/week

Lect.	Unit	Topic Description	Expected	Expected	Plan of Teaching -
No.	Code		Month	week	aid
01	1.1	Single phase Transformer: Concept of ideal transformer. Corrugated core transformer. Toroidal core Transformer Useful and leakage flux,		3	Chalk & Board
02	1.2	Effects. Resistance, leakage reactance and leakage impedance of transformer windings.		3	Chalk & Board
03	1.3	Voltage regulation.	Dec. 2017	4	Chalk & Board
04	1.4	Exact and approximate equivalent circuits referred to L.V. and H. V. side of the transformer		4	Chalk & Board
05	1.5	Phase diagrams for no-load and on load conditions. Transformer ratings		4	PPT & Chalk & Board
06	1.6	Losses in a transformer, their variation with load, voltage & Frequency on no load losses		4	PPT & Chalk & Board
07	1.7	Efficiency and condition for maximum efficiency.		1	Chalk & Board
08	1.8	Autotransformers, their ratings and applications.		1	Chalk & Board
09	2.1	Polarity test. Parallel operation of single phase transformers, Welding Transformer		1	PPT
10	2.2	Three Phase Transformers: Standard connections of three phase transformers and their suitability for various applications,	Jan. 2018	1	PPT & Chalk & Board
11	2.3	voltage Pharos diagrams and vector groups		2	PPT & Chalk & Board
12	2.4	Descriptive treatment of Parallel operation of three phase transformers Scott connection		2	PPT & Chalk & Board
13	2.5	V connections. Three winding (tertiary windings) transformers		. 2	Chalk & Board
14	2.6	Open circuit and short circuit tests,		2	Chalk & Board

15	2.7	two winding transformer			DDT 0 CI II 0 D 1
		two winding transformer	-	3	PPT & Chalk & Board
16	2.8	Losses in a transformer,		3	Chalk & Board
17	3.1	Construction, main parts, magnetic		3	PPT
		circuits, poles, yoke, field winding,			
10		armature core			
18	3.2	Windings: Simple lap and wave		3	Chalk & Board
		winding, commentator and brush			
19	3.3	assembly. Generating action  E.M.F equation, magnetization	-	4	Ch-11- 0 D1
17	3.3	curve, Flashing of Generator		4	Chalk & Board
		our st, rushing or concrutor			
20	3.4	Types of DC motors, significance of	1 1	4	PPT
		back E.M.F torque equation			
21	3.5	Working at no-load and on-load.	1	4	PPT & Chalk & Board
		Losses,			Trace Chain & Board
22	3.6	Efficiency power flow diagram	1	4	PPT & Chalk & Board
23	3.7	Descriptive treatment of armature		1	Chalk & Board
		reaction			Chark & Board
24	3.8	Generating action	-	1	Chalk & Board
25	4.1	Characteristics and applications of	-	1	PPT
		D.C. Shunt and Series Motors,		1	III
		Starting of DC motors			₹
26	4.2	study of starters for series and shunt	-	1	Chalk & Board
20	7.2	motor, solid state starters, speed		1	Chaik & Board
		control of various types of DC motors			
27	4.3	Commutation: Process of		2	DDE 0 Cl 11 0 D
21	4.5	commutation, time of commutation		3	PPT & Chalk & Board
28	4.4				
20	4.4	reactance voltage, straight line commutation		3	PPT & Chalk & Board
29	4.5	- 5 Sec. Co. 7 Sec. 5, 1, 1, 1 Co. 17	Feb. 2018	_	
29	4.3	commutation with variable current		3	Chalk & Board
20	1.6	density, under and over commutation			
30	4.6	bad commutation and remedies, inter		3	Chalk & Board
2.1		poles			
31	4.7	Compensating windings. (Descriptive		4	Chalk & Board
		treatment only)			
32	4.8	Starting of DC motors,		4	Chalk & Board
33	5.1	Production of rotating mmf by 3-		4	PPT & Chalk & Board
		phase balanced voltage fed to a			
		symmetrical 3-phase winding			
34	5.2	Construction: Stator, Squirrel cage &		4	PPT & Chalk & Board
		wound rotors. Principle of working,		1.5	
		simplified theory.			
35	5.3	frequency of rotor emf and rotor		1	PPT & Chalk & Board
		currents, mmf	March		
		produced by rotor currents, its speed		*	
		w.r.t. rotor and stator mmf	2018		
36	5.4	Production of torque, torque slip		1	Chalk & Board

		Electrical Engineering	o opini mini		
35	5.3	frequency of rotor emf and rotor		1	PPT & Chalk & Board
		currents, mmf			
		produced by rotor currents, its speed			
		w.r.t. rotor and stator mmf			
36	5.4	Production of torque, torque slip		1	Chalk & Board
		relation, condition for maximum			
		torque, torque-slip Characteristics			
37	5.5	Effect of rotor resistance on torque-		1	Chalk & Board
		slip characteristics. Relation between			14
		starting torque, full load torque and			
		maximum torque.			
38	5.6	Losses in three phase induction		1	PPT & Chalk & Board
		motor, power-flow diagram			
39	5.7	Relation between rotor input power,		2	PPT & Chalk & Board
		rotor copper loss			
40	5.8	gross mechanical power developed,		2	PPT & Chalk & Board
		efficiency	March		darted alto. Ask to be stated as a second of the second of
41	6.1	Induction motor as a generalized	2018	2	PPT & Chalk & Board
	0.1	transformer; pharos diagram. Exact &	2016		
		approximate			
42	6.2	Equivalent circuit. No load and		2	PPT & Chalk & Board
42	0.2	blocked rotor tests to determine the		2	111 w Chair w Board
		equivalent circuit			
43	6.3	Parameters and plotting the circle		3	Chalk & Board
43	0.3	The state of the s		3	Chair & Board
		diagram. Computation of			
- 11	(1	performance characteristics		3	Chalk & Board
44	6.4	Equivalent circuit and circle		3	Chaik & Board
		diagram. Performance curves			
45	6.5	Necessity of starter for 3-phase		3	PPT
		induction motors.			
46	6.6	Starters for slip-ring and cage rotor		3	PPT
		induction motors			
47	6.7	circle diagram		4	PPT
48	6.8	Application		4	Chalk & Board
		I was a second of the second o			

Note: 1.Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar

(Prof. Kiran.P. Varade) Subject In charge (Prof. N. B. Shaikh) HOD -Electrical Engg.

H.O.D.

Dept. of Electrical Engg.

Sir. Visvesvaraya Institute of Technology
Chincholi, Nashik-422 101

Academic Year: 2017-18	Semester: 6 <sup>th</sup>
Course: UG	Branch: Electrical Engineering
Class: TE	Subject: Utilization of Electrical Energy
Subject Code: 303148	Subject Type: Theory
Name of Teacher: Prof. Ankita singh	Workload: 03 hrs/week

Lect.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching aid
01	1.1	Modes of heat transfer, mathematical		3	Chalk & Board
		expressions Electric heating:			
		Introduction to electric heating,			14
		Advantages of electrical heating			
		Heating methods: - Resistance			
		heating - Direct resistance heating,			2
		indirect resistance heating, electric			
		ovens,:			
02	1.2	Different types of heating element		3	Chalk & Board
		materials, temperature control of			
		resistance furnaces, and design of			
		heating element (Numerical).			
		Applications of resistance heating			
		Induction heating			
03	1.3	Principle, core type and coreless		4	Chalk & Board
		induction furnaces, Ajax Wyatt			
		furnace, Numerical on melting	D 2017		2
		furnaces Applications of induction	Dec. 2017		
		heating,			
04	1.4	Electric arc heating – Direct and		4	Chalk & Board
		indirect arc heating, types of arc			
		furnaces, equivalent circuit of arc			
		furnace, condition for maximum			
		output,			
05	1.5	power factor at maximum output		4	PPT & Chalk & Bo
		(Numerical), Heat control in arc			
		furnace, Applications of arc heating			
		Dielectric heating -Principle, choice			
		of voltage and frequency for dielectric			2 A
		heating (Numerical), Applications of			
		dielectric heating Electric Welding -			
		Welding methods-Electric arc			
		welding and resistance welding			
06	1.6	Equivalent circuit of arc furnace		4	PPT & Chalk & Bo
		(Numerical) Modern welding			

		techniques like ultrasonic welding			22
		and laser welding			
07	2.1	Electrochemical Process		1	PPT
		Need of electro-deposition.			1
		Applications of Faraday's laws in			1
		electro-deposition		1	DDT 0 CL II 0 D
08	2.2	. Factors governing electro-		I	PPT & Chalk & Board
		deposition. Objectives of			
		electroplating, Equipments and			
		accessories for electroplating plant,			No.
		Electroplating on non-conducting materials			4
09	2.3	Principle of anodizing and its		2	PPT & Chalk & Board
09	2.3	applications Electrical Circuits Used		2	TTT & Chair & Doug
		in Refrigeration,			
10	2.4	Air Conditioning Brief description of	<u> </u>	2	PPT & Chalk & Bo
10	2.4	vapour compression refrigeration			TTT & Chair & Bo
		cycle. Description of electrical			1
		circuits used in Refrigerator, Air			· 20
		Conditioner			
11	3.1	Definitions of luminous flux, solid		3	PPT
		angle, luminous intensity,			
		illumination, luminous efficacy,			4
		depreciation factor			
12	3.2	coefficient of utilization, space to		3	Chalk & Board
		height ratio, reflection factor; Laws of			. 3
		illumination. Design of illumination			
		schemes-Factors to be considered for			
		design of illumination scheme,			
13	3.3	Calculation of illumination at		4	Chalk & Board
		different points, considerations			
		involved in simple design problems			
		for indoor installation, illumination			
		schemes, standard illumination level.			i i
		Natural day light illumination (brief			
		information) Different sources of			
		light:			
14	3.4	Incandescent lamp, fluorescent lamp,	3	4	PPT
		comparison between them.			1
		Incandescent and discharge lamps –			
		their construction and characteristics;			* <-
		mercury vapour lamp, sodium lamp,			
		halogen lamp, compact fluorescent			
		lamp, metal halide lamp, neon lamps			
		Electroluminescent lamp-LEDs, types, LASERs Comparison of all			
		types, LASERS Comparison of an	-		

		Electrical 8	-		
		above luminaries			1
15	4.1	History of Indian railways. Traction		1	PPT
13	7.1	systems, Steam engine drive, Brief			
	1	treatment to electric drive			
1.6	4.2	diesel electric drive, types of diesel		1	Chalk & Board
16	4.2	locomotives, Advantages of electric			
	32	traction			4
	4.0	Indian railway engine coding		3	PPT & Chalk & Bear
17	4.3	terminology, WDM, WDP, WDG			
		series and their capacity . Introduction			, and the second
		series and their capacity. Introduction			
		to metro system, mono rail system		3	PPT & Chalk & Boar
18	4.4	Systems of track electrification: D.C.		5	1
		system, single phase low frequency			5
		A.C. system, 3 phase low frequency			
		A.C. systems, composite systems –			
		kando systems, single phase A.C. to			
		dc system		2	Chalk & Board
19	4.5	D.C. system Different accessories		3	Chair & Board
		for track electrification -overhead			
		wires, conductor rail system,			
		current collector-pentograph, catenary			
		Electric locomotive- Block diagram			
		with description of various equipment			
		and accessories			
20	4.6	Supply system constituents-Layout		3	Chalk & Board
20	1.0	and description of -Traction			
		substation, feeding post(25kV),		U	1
		feeding and sectioning arrangement,			1
		sectioning and paralleling post,			
		neutral section. Details of major		)	
		equipment in traction substation-			
		transformer, circuit breaker,			
		interrupter			
	C 1	Traction Mechanics		4	PPT & Chalk & Box
21	5.1				
	5.0	Types of services- Urban		4	PPT & Chalk & Box
23	5.2	Sub-urban		1	PPT & Chalk & Bo
24	5.3	Main line Speed time curves		1	Chalk & Board
25	5.4	trapezoidal and quadrilateral speed-			
		time curves		1	Chalk & Board
26	5.5		N 1.	1	Chair & Dours
		(Numerical),	March	1	PPT & Chalk & Bu
27	5.6	Tractive effort. Specific energy	2018	1	rri & Chair & B
		consumption			DDT 0 CL -11 0 D
	5.7			2	PPT & Chalk & Bo
28		The state of the s	1		
28	3.7	consumption (Numerical)		2	PPT & Chalk & Bo

		coefficient of adhesion (Numerical).		
30	6.1	Desirable characteristic of traction motors	2	PPT & Chalk & Board
31	6.2	Suitability of D.C. series motor,	2	PPT & Chalk & Board
32	6.3	A.C. series motor	3	Chalk & Board
33	6.4	3 phase induction motor and linear induction motor for traction.	3	Chalk & Board
34	6.5	Control of traction motors -Series- parallel control, Shunt and bridge transition (Numerical),	3	PPT
35	6.6	Electrical breaking, Regenerative breaking in traction, Suitability of different motors for braking.	3	PPT
36	6.7	Train lighting system. Railway signalling: - History, necessity, block system route relay interlock and necessity. Metro signalling,	4	PPT
37	6.8	Electromechanical system for route relay interlock. Introduction to train tracking system, types. Anti-collision system-brief treatment only	4	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Prof.Ankita singh)

Subject In charge

(Prof N.B.Shaikh)

HOD -Electrical Engg.

Dept. of Electrical Engg.

Sir. Visvesvaraya Institute of Technology Chincholi, Nashik-422 101

#### Sir Visvesvaraya Institute of Technology, Nashik E & TC Engineering Department Teaching Plan

Academic Year: 2017-18	Semester: 6 <sup>th</sup>
Course: UG	Branch: E & TC Engineering
Class: TE	Subject: Business Management
Subject Code:	Subject Type: Theory
Name of Teacher: Prof. T. K. Wable	Workload: 03 hrs/week

Lect.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching - aid
01	1.1	Introduction, Definition of management characteristics of management,		3	PPT
02	1.2	functions of management:		3	PPT -
03	1.3	Principles of management	Dec. 2017	4	PPT
04	1.4	Administration and management, Nature of management, levels of management		4	PPT
05	1.5	Forms of Organization- Line		4	Chalk & Board
06	1.6	Dist Business sectors & forms of business organizations		1	Chalk & Board
07	1.7	Various forms of business organizations		1	Chalk & Board
08	1.8	Concept of globalization		1	Chalk & Board
09	2.1	Definition of quality, goalpost view of quality, continuous improvement definition of quality,		2	PPT
10	2.2	Types of quality		2	PPT & Chalk & Board
11	2.3	Juran's and Demings view of quality		2	PPT & Chalk & Board
12	2.4	Quality Management Assistance Tools:	Jan. 2018	3	PPT & Chalk & Board
13	2.5	Six sigma Quality Management Standards Application of six sigma a CASE study		3	Chalk & Board
14	2.6	The ISO 9001:2015 Quality Management System Standard		3	Chalk & Board
15	3.1	Capital Structure, Fixed & working capital, Cash flow,		- 4	PPT
16	3.2	Demand and supply analysis		4	Chalk & Board
17	3.3	Break even analysis		4	Chalk & Board
18	3.4	Introduction to Project Management process	Eab 2019	1	Chalk & Board
19	3.5	Project estimates and costing	Feb. 2018	1	Chalk & Board
20	3.6	Case study of a project Management		1	PPT

21	4.1	Strategic importance HRM		2	Chalk & Board
22	4.2	Human Resource Planning - objectives and process; human resource information system		2	PPT & Chalk & Board
23	4.3	Talent acquisition		2	PPT & Chalk & Board
24	4.4	career planning and management	7.94	3	Chalk & Board
25	4.5	Case study on Recent trends in Human Resource development		3	Chalk & Board
26	4.6	Case study of a HR of an organization.		3	Chalk & Board
27	5.1	Unit V: Entrepreneurship Development Concept of entrepreneurship		4	Chalk & Board
28	5.2	Identification of business opportunities		4	PPT & Chalk & Board
29	5.3	Sources of finance		4	PPT & Chalk & Board
30	5.4	Policies and incentives for small business development		1	PPT & Chalk & Board
31	5.5	Woman entrepreneurship, Industrial relations		1	Chalk & Board
32	5.6	Case study on Small scale industries in India.		1	Chalk & Board
	6.1	Unit VI : Marketing Introduction to marketing		2	PPT & Chalk & Board
	6.2	Consumer behavior and Marketing management	March	2	PPT & Chalk & Board
	6.3	Marketing research	2018	2	PPT & Chalk & Board
	6.4	Personal selling and sales force Management	and the later of	3	PPT & Chalk & Board
	6.5	Modern marketing system (digital Mastering marketing)		3	PPT & Chalk & Board
	6.6	Introduction to supply chain management and customer relationship management		3	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

3. INSEM Exam will be conduct as per schedule of University.

(Prof. T. K. Wable) Subject In charge

Prof.U.V.Patin

HOD ETC

H.O.D.

Department of Electronics & Telecommunication Engage

SVIT., Tal. Sinnar,

Dist. Nashik

#### Sir Visvesvaraya Institute of Technology, Nashik E & TC Engineering Department Teaching Plan

Academic Year: 2017-18	Semester: 4 <sup>th</sup>
Course: UG	Branch: E & TC Engineering
Class: SE	Subject: Analog Communication
Subject Code: 204189	Subject Type: Theory
Name of Teacher: Prof. T. K. Wable	Workload: 03 hrs/week

Lect.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching -
01	1.1	Base band & Carrier communication		3	Chalk & Board
02	1.2	Generation of AM (DSBFC) and its spectrum	Dec. 2017	3	Chalk & Board
03	1.3	Generation of DSBSC		4	Chalk & Board
04	1.4	Ring modulator & its spectrum		4	Chalk & Board
05	1.5	Modulation Index		4	Chalk & Board
06	1.6	SSBSC, ISB & VSB, their generation methods & Comparison		1	Chalk & Board
07	1.7	Block Diagram of AM Transmitter		1	Chalk & Board
08	1.8	Broadcast technical standards.		1	Chalk & Board
09	2.1	Block diagram of TRF AM Receivers		2	PPT
10	2.2	Super Heterodyne Receiver		2	PPT & Chalk & Board
11	2.3	Dual Conversion Super heterodyne Receiver		2	PPT & Chalk & Board
12	2.4	Concept of Series & Parallel resonant circuits for selectivity	Jan. 2018	3	PPT & Chalk & Board
13	2.5	Performance Characteristics		3	Chalk & Board
14	2.6	Tracking, Mixers		3	Chalk & Board
15	2.7	AM Detection: Rectifier detection, Envelope detection;		4	Chalk & Board
16	2.8	Demodulation of DSBSC: Synchronous detection; Demodulation of SSBSC: Envelope detection		4	Chalk & Board
17	3.1	Concept of Angle modulation		4 -	PPT
18	3.2	frequency spectrum& Eigen Values	Feb. 2018	11	Chalk & Board
19	3.3	Narrow band & wide band FM, Modulation index, Bandwidth		1	Chalk & Board
20	3.4	Phase Modulation, Bessel's Function and its mathematical analysis		1	Chalk & Board
21	3.5	Generation of FM: Direct method		2	Chalk & Board

22	3.6	Generation of FM: Indirect Method		2	PPT
23	3.7	FM stereo Transmitter,		2	Chalk & Board
24	3.8	Two way FM Radio Transmitter,		3	Chalk & Board
25	4.1	Block diagram of FM Receiver		3	Chalk & Board
26	4.2	FM Stereo Receiver		3	PPT & Chalk & Board
27	4.3	Two way FM Radio Receiver		4	PPT & Chalk & Board
28	4.4	FM detection using Phase lock loop(PLL)		4	Chalk & Board
29	4.5	Slope detector,	- Harding	4	Chalk & Board
30	4.6	Balanced Slope detector		1	Chalk & Board
31	5.1	Sources of Noise		1	Chalk & Board
32	5.2	Types of Noise		1	PPT & Chalk & Board
33	5.3	Signal to Noise Ratio		2	PPT & Chalk & Board
34	5.4	SNR of tandem connection,		2	PPT & Chalk & Board
35	5.5	Behavior of Baseband systems and Amplitude modulated systems DSBSC		2	PPT Chalk & Board
36	5.6	Behavior of Baseband systems and Amplitude modulated systems SSBSC in presence of noise.	March 2018	3	PPT Chalk & Board
37	6.1	Band limited & time limited signals		3	PPT & Chalk & Board
38	6.2	Narrowband signals and systems		3	PPT & Chalk & Board
39	6.3	Sampling theorem in time domain, Nyquist criteria		4	PPT & Chalk & Board
40	6.4	Types of sampling	h	4	PPT & Chalk & Board
41	6.5	Aliasing & Aperture effect		4	PPT & Chalk & Board
42	6.6	PAM PWM & PPM. Introduction to Pulse Code Modulation	April 2018	1	PPT Chalk & Board

1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

3. ONLINE Exam will be conduct as per schedule of University

(Prof. T. K. Wable) Subject In charge

Prof.U. V.Patil

H.O.D. Dist. Nashik

# Sir Visvesvaraya Institute of Technology, Nashik Department of Information Technology Teaching Plan

Academic Year: 2017-18	Semester: 4 <sup>th</sup>
Course: UG	Branch: IT
Class: SE	Subject: FCCN
Subject Code: 214453	Subject Type: Theory
Name of Teacher: Prof. Pratibha Waje-Kashid	Workload: 04 hrs/week

Lect.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching - aid
01	1.1	Introduction To Communication		3	Chalk & Board
		Theory: Terminologies, Elements Of			
		Analog Communication System, Baseband signal, Band-pass signal			
02	1.2	Need For Modulation,		3	Chalk & Board
02	1.2	Electromagnetic Spectrum And		3	Chair & Doard
		Typical			
		Applications			
03	1.3	Basics Of Signal (Analog And Digital,)		4	Chalk & Board
		Representation And Analysis (Time	Dec. 2017		
		and frequency)			5º 11
04	1.4	Introduction To Transmission		4	Chalk & Board
		Media: Guided Media: Twisted-Pair			
		Cable, Coaxial Cable And Fiber-			
0.5	1.5	Optic Cable		4	DDT 0 Cl 11 0 D
05	1.5	Unguided Media: Wireless , Radio		4	PPT & Chalk & Boar
		Waves, Microwaves And Infrared			DDT 0 Cl 11 0 D
06	1.6	Noise: External Noise, Internal Noise		4	PPT & Chalk & Boar
		,Noise Calculations			
07	2.1	Amplitude Modulation, Theory Of		1	Chalk & Board
		Amplitude Modulation Techniques		70	
08	2.2	DSBFC, DSBSC, SSB		1	Chalk & Board
09	2.3	Generation		1	PPT
		Of Amplitude Modulated Signals,			
		Frequency Spectrum.			
10	2.4	Angle Modulation Techniques:		1	PPT & Chalk & Boar
		Theory Of Angle Modulation	Jan. 2018		
		Techniques		2:	DDT 0 Cl. II 0 D
11	2.5	Practical Issues In Frequency	A/20	2	PPT & Chalk & Boar
10	26	Modulation Of Fraguency	je je	2	PPT & Chalk & Boar
12	2.6	Generation Of Frequency		2	TTT & Chark & Boar
10	2.1	Modulation, Frequency Spectrum		. 2	Chalk & Board
13	3.1	Pulse Modulation Techniques:		2	Chaik & Board
		Pulse Analog Modulation Techniques,			
14	3.2	sampling Pulse Digital		2	Chalk & Board

# Sir Visvesvaraya Institute of Technology, Nashik Department of Information Technology

		Department of Information	on reemmor	053	
		Modulation Techniques: PCM, DM,			
		DPCM, Line Coding Schemes		2	DDT 0 Cl 11 0 D - 1
15	3.3	Average Information, Entropy, Information Rate. Source coding		3	PPT & Chalk & Board
16	3.4	Shanon-Fano, Huffman and Limpel-	-	3	Chalk & Board
10	3.4	Ziv		3	Chair & Board
17	3.5	Digital Modulation Techniques:	· -	3	PPT
- C-A		Basic Digital Modulation Schemes:			
		ASK, FSK, And PSK			
18	3.6	M-Ary Digital Modulation	-	3	Chalk & Board
10	5.0	Techniques: M-Ary PSK , M-Ary FSK ,			
		M-Ary QAM			
19	4.1	Communication Channel. Discrete		4	Chalk & Board
		And Continuous Channel, Shannon-	7		
		Hartley Theorem, Channel			
		Capacity, Nyquist And Shanon			
		Theorem, Bandwidth S/N Trade Off.			2
20	4.2	Error Detection And Correction :		4	PPT
		Introduction, Block Coding (Error			
		Detection, Error Correction			
21	4.3	Hamming Distance And Minimum		4	PPT & Chalk & Board
		Hamming Distance), Linear Block			7.5
		Codes			
22	4.4	Cyclic Codes : CRC (Hardware	1	4	PPT & Chalk & Board
		Implementation, Polynomials),			
00	1.5	Advantages Of Cyclic Codes		1	Chalk & Board
23	4.5	Other Cyclic Codes As Examples :CHECKSUM : One's Complement		1	Chark & Board
		Internet	3.		
		Checksum			
24	4.6	Stop-and-Wait Automatic Repeat		1	Chalk & Board
		Request, Go-Back-N Automatic			
		Repeat Request , Selective Repeat			
		Automatic Repeat Request			
25	5.1	Multiplexing :FDM, TDM,		1	PPT
		Synchronous Time-Division			
		Multiplexing, Statistical Time-Division	Feb. 2018		
26	5.2	Multiplexing Spread Spectrum: FHSS And DSSS	100. 2018	1	Chalk & Board
27	5.3	Random access: (ALOHA, CSMA,	-	3	PPT & Chalk & Board
21	3.3	CSMS/CD And CSMA/ CA)		5	111 & Chaix & Board
28	5.4	Controlled Access (Reservation,	† †	3	PPT & Chalk & Board
		Polling And Token Passing)			
		Channelization (FDMA, TDMA And	a"		
		CDMA)		20%	
29	5.5	Computer network fundamentals,		3	Chalk & Board
		ISO OSI Model: All Layers	_		
30	5.6	TCP/IP Protocol Suite: All Layers,		3	Chalk & Board

#### Sir Visvesvaraya Institute of Technology, Nashik **Department of Information Technology**

		Addressing (Physical, Logical Port And	e <sup>i5</sup>		
		Other), LAN, WAN And MAN,			
		Network Topologies.			
31	6.1	LAN hardware: (Switches, router,	1 [	4	Chalk & Board
		hub, bridge and their types)			
32	6.2	IEEE 802.3, Fast Ethernet ( Mac	1	4	Chalk & Board
		Sublayer & Physical Layer )			
33	6.3	Gigabit Ethernet ( Mac Sublayer,	1	4	PPT & Chalk & Board
		Physical Layer) Ten-Gigabit Ethernet			
34	6.4	Token ring and token bus standard		4	PPT & Chalk & Board
		Circuit Switched Networks			
35	6.5	Packet (Datagram) Networks, Virtual		1	PPT & Chalk & Board
		Circuits	] [		
36	6.6	Structure Of Circuit And Packet Switches		1	Chalk & Board
37		Switches		1	Chalk & Board
38			1	1	PPT & Chalk & Board
39			1 [	2	PPT & Chalk & Board
40			March	2	PPT & Chalk & Board
41			2018	2	PPT & Chalk & Board
42			1 [	2	PPT & Chalk & Board
43			1 [	3	Chalk & Board
44			1 [	3	Chalk & Board
45			1 [	3	PPT
46				3	PPT
47			] [	4	PPT
48			] [	4	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar. POR

(Prof. P.V. Waje-Kashid)

Subject In charge

(Prof.R.S.Bhalerao)

HOD-IT

## Sir Visvesvaraya Institute of Technology, Nashik Department of Information Technology Teaching Plan

Academic Year: 2017-18	Semester: 6 <sup>th</sup>
Course: UG	Branch: IT
Class: TE	Subject: Design & Analysis of Algorithm
Subject Code: 314452	Subject Type: Theory
Name of Teacher: Prof. Pratibha Waje-Kashid	Workload: 04 hrs/week

Lect.	Unit	Topic Description	Expected	Expected	Plan of Teaching -
No.	Code		Month	week	aid
01	1.1	Brute Force method: Introduction		3	Chalk & Board
		to Brute Force method & Exhaustive			
		search			2
02	1.2	Brute Force solution to 8 queens'		3	Chalk & Board
0.2	1.0	problem.	_gs		
03	1.3	Proof Techniques: Minimum 2		4	Chalk & Board
		examples of each: Contradiction			
04	1.4	Mathematical Induction, Direct	Dec. 2017	4	Chalk & Board
	a più a	proofs, Proof by counterexample, Proof by contraposition.			
05	1.5	Analysis of Algorithm: Efficiency-		4	PPT & Chalk & Board
05	1.5	Analysis framework, asymptotic		7	111 & Chark & Doard
		notations – big O, theta and omega.			9
06	1.6	Amortized Analysis: Aggregate,		4	PPT & Chalk & Board
00	1.0	Accounting & Potential method with		7	111 & Chark & Board
		the example of stack operations			
07	1.7	Analysis of Non-recursive and		1	Chalk & Board
07	1.7	recursive algorithms: Solving		1	Chark & Board
		Recurrence Equations			
08	1.8	Homogeneous and nonhomogeneous	ger	1	Chalk & Board
09	2.1	Divide & Conquer: General		1	PPT
O)	2.1	method, Control abstraction		•	***
10	2.2	Merge sort, Quick Sort – Worst, Best		1	PPT & Chalk & Board
10	2.2	and average case		1	111 a Chaix a Board
11	2.3	Binary search, Finding Max-Min,		2	PPT & Chalk & Board
		Large integer Multiplication	Jan. 2018		
12	2.4	Greedy Method: General method		2	PPT & Chalk & Board
		and characteristics			
13	2.5	Prim's method for MST		2	Chalk & Board
14	2.6	Kruskal's method for MST (using		2	Chalk & Board
540 B	17-a-25-01	nlogn complexity)			HEROTE STATE OF THE STATE OF TH
15	2.7	Dijkstra's Algorithm, Optimal storage		3	PPT & Chalk & Board
		on tapes		(8.7	
16	2.8	Fractional Knapsack problem, Job	-2°	3	Chalk & Board
		Sequencing.	¥.		

#### Sir Visvesvaraya Institute of Technology, Nashik Department of Information Technology

				80	
17	3.1	General strategy,		3	PPT
18	3.2	Principle of optimality	1	3	Chalk & Board
19	3.3	0/1 knapsack Problem	1	4	Chalk & Board
20	3.4	Bellman-Ford Algorithm		4	PPT
21	3.5	Multistage Graph problem		4	PPT & Chalk & Board
22	3.6	Optimal Binary Search Trees		4	PPT & Chalk & Board
23	3.7	Travelling Salesman Problem		1	Chalk & Board
24	3.8			1	Chalk & Board
25	4.1	General method		1	PPT
26	4.2	Recursive backtracking algorithm		1	Chalk & Board
27	4.3	Iterative backtracking method		3	PPT & Chalk & Board
28	4.4	8-Queen problem	Chincholi,	Jashik <b>3</b> 42210	PPT & Chalk & Board
29	4.5	Sum of subsets	Feb. 2018	Estata of Tex	Chalk & Board
30	4.6	Graph coloring	Paternen of	FULL 3 IU 100	Chalk & Board
31	4.7	Hamiltonian Cycle	,	4	Chalk & Board
32	4.8	0/1 Knapsack Problem		4	Chalk & Board
33	5.1	The method, Control abstractions for		4	PPT & Chalk & Board
		Least Cost Search			
34	5.2	Bounding, FIFO branch and bound	<b>1</b>	4	PPT & Chalk & Board
35	5.3	LC branch and bound		1	PPT & Chalk & Board
36	5.4	0/1 Knapsack problem – LC branch		1	Chalk & Board
37	5.5	and bound		1	Chalk & Board
38	5.6	FIFO branch and bound solution		1	PPT & Chalk & Board
39	5.7	Traveling sales person problem		2	PPT & Chalk & Board
40	5.8			2	PPT & Chalk & Board
41	6.1	Computational Complexity: Non		2	PPT & Chalk & Board
		Deterministic algorithms	March		
42	6.2	The classes: P, NP, NP Complete, NP Hard	2018	2	PPT & Chalk & Board
43	6.3	Satisfiability problem		3	Chalk & Board
44	6.4	Proofs for NP Complete Problems:		3	Chalk & Board
		Clique, Vertex Cover.	£"		
45	6.5	Parallel Algorithms: Introduction		3	PPT
46	6.6	models for parallel computing		3	PPT
47	6.7	computing with complete binary tree		4	PPT
48	6.8	Pointer doubling algorithm		4	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Prof. P.V. Waje-Kashid)

Subject In charge

(Prof.R.S.Bhalerao)

HOD -IT



# Pravara Rural Education Society's

Sir Visvesvaraya Institute of Technology, Nashik
A/P: Chincholi, Tal: Sinnar, Dist: Nashik (MH)
Email: svit.nashik@pravara.in, Website: www.svitnashik.in
University Id. No. 052
Institute Code: 5125



Department of Mechanical Engineering

#### **Teaching Plan**

Academic Year: 2017-18	Semester: 4 <sup>th</sup>
Course: UG	Branch: Mechanical Engineering
Class: SE	Subject: Theory of Machine-I
Subject Code: 202048	Subject Type: Theory
Name of Teacher: Prof. Khemnar V. K.	Workload: 04 hrs/week

Lect. No.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching - aid
01		Introduction to syllabus and Paper pattern	Dec. 2017	3	Chalk & Board
02	1.1	Unit I Fundamentals of Kinematics and Mechanisms Kinematic link, Types of links, Kinematic pair		3	Chalk & Board
03	1.2	Types of constrained motions, Types of Kinematic pairs, Kinematic chain, Types of joints		4	Chalk & Board
04	1.3	Mechanism, Machine, Degree of freedom (Mobility), Kutzbach criterion, Grubler's criterion. Four bar chain and its inversions, Grashoff's law		4	Chalk & Board
05	1.4	Slider crank chain and its inversions		4	PPT & Chalk & Board
06	1.5	Double slider crank chain and its inversions.	dist	4	PPT & Chalk & Board
07	1.6	Straight line mechanisms such as: Peaucellier Mechanism, Scott Russell Mechanism, Grasshopper Mechanism, watt mechanism. Equivalent linkage of mechanisms.	Jan. 2018	1	PPT, Chalk & Board
08	1.7	Steering gear mechanisms: Condition for correct steering		1	Chalk & Board
09	1.8	Davis steering gear mechanism, Ackermann steering gear mechanism.		1	Chalk & Board
10	1.9	Numerical		1	Chalk & Board

11	2.1	Unit II: Static and Dynamic Force Analysis Theory and analysis of Compound Pendulum, Concept of equivalent length of simple pendulum		2	PPT & Chalk & Board
12	2.2	Bifilar suspension		2	PPT & Chalk & Board
13	2.3	Trifilar suspension		2	Chalk & Board
14	2.4	Dynamics of reciprocating engines: Two mass statically and dynamically equivalent system, correction couple		2	Chalk & Board
15	2.5	Static and dynamic force analysis of reciprocating engine mechanism		3	PPT & Chalk & Board
16	2.6	Numerical		3	Chalk & Board
17	2.7	Crank shaft torque, Introduction to T-θ diagram		3	PPT
18	2.8	Friction: Friction in turning pair, friction circle, friction axis, friction in slider crank mechanism	ě	3	Chalk & Board
19	3.1	Unit III: Friction Clutches, Brakes and Dynamometer Pivot and collar friction		4	Chalk & Board
20	3.2	Cases of Pivot and collar friction		4	PPT
21	3.3	Cases of Pivot and collar friction		4	PPT & Chalk & Board
22	3.4	Classification of Clutches, torque transmitting capacity of – Single plate clutch		4	PPT & Chalk & Board
23	3.5	Torque transmitting capacity of – Multiplate plate clutch		1	Chalk & Board
24	3.6	Cone clutch and centrifugal clutch		1	PPT
25	3.7	Classification of brakes, Shoe brake		1	PPT
26	3.8	Internal shoe brake, disc brake	Feb.	1	Chalk & Board
		University Online Exam –SE (5th to 10th)	2018	2	Bour u
27	3.9	Absorption and transmission type dynamometers – prony brake, rope brake		3	PPT & Chalk & Board
28	3.10	Belt transmission, epicyclic train and Bevis-Gibson torsion		3	PPT & Chalk &

		Total Salara Control Control			Board	
29	4.1	Unit IV: Kinematic Analysis of Mechanisms: Analytical Method Analytical method for displacement, velocity		3	Chalk & Board	
30	4.2	Analytical method for acceleration analysis of slider crank Mechanism.		3	Chalk & Board	
31	4.3	Position analysis of links with vector and complex algebra methods		4	Chalk & Board	
32	4.4	Position analysis of links with vector and complex algebra methods		4	Chalk & Board	
33	4.5	Loop closure equation, Chase solution		4	PPT & Chalk & Board	
34	4.6	Velocity and acceleration analysis of four bar and slider crank mechanisms using vector and complex algebra methods		4	PPT & Chalk & Board	
35	4.7	Hooke's joint			1	PPT & Chalk & Board
36	4.8	Double Hooke's joint		1	Chalk & Board	
37	4.9	Numerical		1	Chalk & Board	
38	5.1	Unit V: Velocity and Acceleration Analysis of Simple Mechanisms: Graphical Methods-I Relative velocity method: Relative velocity of a point on a link, Angular velocity of a link, Sliding velocity, Velocity polygons for simple mechanisms.	March 2018	1	PPT & Chalk & Board	
		University Online Exam –SE (5th to 10th)		2		
39	5.2	Relative acceleration method: Relative acceleration of a point on a link, Angular acceleration of a link, Acceleration polygons for simple mechanisms.		3	PPT & Chalk & Board	
40	5.3	Numerical on Relative velocity method		3	PPT & Chalk & Board	
41	5.4	Numerical on Relative velocity method		3	PPT & Chalk & Board	
42	5.5	Instantaneous center of rotation (ICR)		3	PPT &	

		method: Definition of ICR, Types of ICRs, Methods of locating ICRs			Chalk & Board
43	5.6	Kennedy's Theorem, Body and space centrode		4	Chalk & Board
44	5.7	Numerical on ICR		4	Chalk & Board
45	5.8	Numerical on ICR		1	PPT
46	5.9	Unit VI: Velocity and Acceleration Analysis of Mechanisms: Graphical Methods-II Velocity and acceleration diagrams for the mechanisms involving Coriolis component of acceleration.	April	1	PPT, Chalk & Board
47	5.10	Numerical	2018	1	PPT
48	5.11	Numerical		2	Chalk & Board
49	5.12	Klein's construction		2	PPT
50	5.13	Numerical on Klein's construction		2	PPT
51	5.14	Numerical on Klein's construction		2	PPT

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Prof. V. K. Khemnar) Subject in charge SVIT NASHIK DE

(Prof. V. L. Kadlag) HOD -Mechanical Engg.

R VISVESVARAYA INSTITUTE TECHNOLOGY, CHINCHOLI NASIK - 422101

# **Teaching Plan**

#### 302048: Design of Machine Elements - II

**Teaching Scheme:** 

Lectures: 4 h / week Practical: 2 h / week Class: TE Mechanical **Examination Scheme:** 

In Semester: 30 End Semester: 70

OR: 25 TW:25 Total: 150

Term II, Dec. 2017 through April 2018, Academic Year 2017-18

Lect.	Unit Code			Expected week	Plan of Teaching - aid
01	1.1	Unit-I Gear Selection, material selection, Basic modes of tooth failure		3	PPT & Chalk & Board
02	1.2	Gear Lubrication Methods, Important terminology		3	Chalk & Board
03	1.3	Number of teeth and face width, Force analysis	Dec. 2017	4	Chalk & Board
04	1.4	Beam strength (Lewis) equation		4	Chalk & Board
05	1.5	Wear strength (Buckingham's) equation		4	Chalk & Board
06	1.6	Estimation of module based on beam and wear strength		4	Chalk & Board
07	1.7	Estimation of dynamic tooth load by velocity factor and Buckingham's equation		1	Chalk & Board
08	1.8	Miscellaneous Problems		1	Chalk & Board
09	2.1	Unit-II Types of helical and Bevel gears, Terminology, Virtual number of teeth		1	PPT
10	2.2	force analysis of Helical and Straight Bevel Gear		1	PPT & Chalk & Board
11	2.3	Design of Helical and Straight Bevel Gear based on Beam Strength	Jan. 2018	2	Chalk & Board
12	2.4	Design of Helical and Straight Bevel Gear based on Wear strength		2	Chalk & Board
13	2.5	estimation of effective load based on Velocity factor (Barth factor)		2	Chalk & Board
14	2.6	Buckingham's equation		2	Chalk & Board
15	2.7	Mountings of Bevel Gear		3	PPT
16	2.8	Miscellaneous Problems		3	Chalk & Board
17	3.1	Unit-III Types of rolling contact Bearings, Static and dynamic load carrying capacities		3	PPT
18	3.2	Stribeck's Equation		3	Chalk & Board

19	3.3	Equivalent bearing load, Load- life relationship		4	Chalk & Board
20	3.4	Selection of bearing life Selection of rolling contact bearings from manufacturer's catalog		4	PPT
21	3.5	Design for cyclic loads and speed	- 1.05	4	Chalk & Board
22	3.6	Design for bearing with probability of survival other than 90%	mark	4	Chalk & Board
23	3.7	Taper roller bearing: Force analysis	roctest	1	Chalk & Board
24	3.8	Taper roller bearing: selection criteria		1	Chalk & Board
25	4.1	Unit-IV Worm and worm gear		1	PPT
		terminology and proportions of worm and worm gears			The Report
26	4.2	Force analysis of worm gear drives		1	Chalk & Board
27	4.3	Friction in Worm gears, efficiency of worm gears, Worm and worm gear material		3	Chalk & Board
28	4.4	Strength and wear ratings of worm gears	Feb. 2018	3	Chalk & Board
29	4.5	Thermal consideration in worm gear drive	al angl	3	Chalk & Board
30	4.6	Types of failures in worm gear drives		3	Chalk & Board
31	4.7	Methods of lubrication		4	Chalk & Board
32	4.8	Miscellaneous Problems		4	Chalk & Board
33	5.1	<b>Unit-V</b> Materials and construction of flat and V belts	1 1 1	4	PPT & Chalk & Board
34	5.2	geometric relationships for length of belt, power rating of belts, concept of slip & creep		4	Chalk & Board
35	5.3	initial tension, effect of centrifugal force, maximum power condition,	7-1-9	1	Chalk & Board
36	5.4	Selection of Flat and V-belts from manufacturer's catalog,		1	Chalk & Board
37	5.5	belt tensioning methods, relative advantages and limitations of Flat and V- belts	March	1	Chalk & Board
38	5.6	Wire Ropes: Construction, lay, selection, rope drums construction and design	2018	1	PPT & Chalk & Board
39	5.7	Chain Drives: Types of chains and its Geometry, selection criteria for chain drive	2	2	PPT & Chalk & Board
40	5.8	Chain Drives: Polygon effect of chain, Modes of failure for chain,		2	PPT & Chalk & Board

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		Lubrication of chains	1	F 0	J
41	6.1	Unit-VI Classification of sliding		2	PPT & Chalk & Board
42	6.2	Contact bearing  Lubricating oils: Properties, additives, selection of lubricating oils		2	PPT & Chalk & Board
43	6.3	Lubricating oils: Properties & selection of bearing materials.		3	Chalk & Board
44	6.4				Chalk & Board
45	6.5	2DBasic Reynolds Equation, Somerfield number, Raimondi and Boyd method		3	Chalk & Board
46	6.6	Thermal considerations, Parameters of bearing design		3	Chalk & Board
47	6.7	Length to Diameter ratio, Unit bearing Pressure	ength to Diameter ratio, Unit  4 Chalk & Board		Chalk & Board
48	6.8	Radial Clearance, minimum oil film thickness		4	Chalk & Board

Note: 1. Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Prof. Avinash S.Jejurkar) Subject In charge SVIT NASHIK

(Prof.V.L.Kadlag) HOD -Mechanical Engg.

RTMENT OF MECHANICAL ENGG R VISVESVARAYA INSTITUTE OF TECHNOLOGY. CHINCHOLI, NASIK - 422101

#### 107002: Engineering Physics

**Teaching Scheme:** 

Lectures: 4 h / week Practical: 2 h / week

Class: FE

#### **Examination Scheme:**

Online: 50 Theory: 50 TW: 25

Total: 125

## Term II, Dec. 2017 through April 2018, Academic Year 2017-18

Lect. No.	Month	Week Dates	Name of Topic
		1-5	Registration FE
1		5	Unit-I Interference and Diffraction
2		3	Interference due to thin film derivation, fringe width
3			Formation of Newton's rings and its applications
4	Jan.		Applications of Interference, classes of diffraction
5		0.12	Fraunhofer diffraction at single slit, circular aperature
6		8-13	Plane transmission grating
7			Applications of diffraction
8			Problems
9			Unit-II Sound Engineering (Introduction)
10		15-19	Properties of sound
11			Sabine's formula, conditions for good acoustics
12			Noise and its types, remedies to reduce noise
13			Production of ultrasonic waves( two methods)
14		22-31	Detection of ultrasonic waves
15			Application of ultrasonic
16			Problems based on unit
			FE Online Exam I (5-10th)
			Unit -III Polarization and Laser
17			PPL, UPL, Production of PPL different methods
18			Law of Malus, Huygens theory
19		12-16	Three different cases for optic axis
20		9	Retardation Plates, their types
21	Feb		Application of polarization
22		4°.	Laser basic terms of laser
23		19-24	Types of laser
24			Applications of laser
			Unit -IV Solid State Physics
25		26.20	Electrical conductivity in conductor and semiconductor
26		26-28	Fermi energy, Fermi dirac probability function
27			Position of Fermi energy in semiconductors (derivation)
28	March	5-10	Dependence of Fermi level on temperature, doping conc.
29		The second second	Diffusion and drift current
30			Working of PN junction diode in different modes

31			NPN transistor working
32			Hall Effect and its applications
			FE Online Exam I I (12-17)
	1		Unit - V Wave Mechanics
33			Wave particle duality, De broglie 's hypothesis
34			Concept of group n phase velocity derivation
35		19-24	Heisenberg's principle and its derivation
36	-		Physical significance of Ψ and Ψ2
37	1		Schrodinger's time independent wave equation
38	March	26-31	Schrodinger's time dependent wave equation
39			Applications of STIWE (energy eigen value equation )
40			Tunneling effect and its applications Problems
	1 1		Unit -VI Superconductivity and Physics of Nano
			particles
41			Properties of superconductivity
42		2.6	BCS theory, Meissner effect
43		2-6	Types of superconductors and its difference
44			Applications of superconductors and Josephson effect
45			Properties of Nanoparticles
46			Methods of synthesis of Nano particles
47		9-17	Colloidal route method
48			Applications of Nano particles
49			Practice of theory questions
		21/4/2018	Final submission & Conclusion of Teaching FE

(Prof. R.B.Bhusare) Sub I/C (Prof. S. T. Karle ) HOD (Dr. S.N. Shelke) Principal



#### Pravara Rural Education Society's

#### SIR VISVESVARAYA INSTITUTE OF TECHNOLOGY, Nashik

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"Affiliated to University of Pune" letter No. CA/1379 dt. 18/08/1998 Approved by AICTE, New Delhi letter No. F-740-89-308(E)/ET/96 dtd. 15/10/1996

University I D No- 052

Institute Code 5125



#### Teaching Plan Div A & B

Academic Year: 2017-18	Semester: 2nd
Course: UG	Branch: First Engineering
Class : FE	Subject: Engineering Mechanics
Subject Code: 101011	Subject Type: Theory
Name of Teacher: Prof. A. G. Tambe	Workload: 04 hrs/week

Lect. No.	Unit Code	Topic Description	Expected Month	Expected week	Plan of Teaching - aid
01	1.1	Introduction & Coplanar forces		1	Chalk & Board
02	1.2	Resolution and composition	. 7	1	PPT & Chalk & Board
03	1.3	Problems on Resolution & Composition		1	Chalk & Board
04	1.4	Law of parallelogram and Problems		1	Chalk & Board
05	1.5	Moment & Varignon's Theorem & Problems		2	Chalk & Board
06	1.6	Equivalent & Equipollent System & Problems		2	Chalk & Board
07	1.7	Centre of Gravity & Problems on CG of Area and Lines	Jan. 2018	2	Chalk & Board
08	1-1-11	MCQ And Assignment On Unit 1	766 7-1	2	PPT & Chalk & Board
09	2.1	Equation of Motion & Problems		3	Chalk & Board
10	2.2	Variable Acceleration & problems		3	Chalk & Board
11	2.3	Uniform acceleration motion & Problems		3	Chalk & Board
12	2.4	Motion Under Gravity & Problems		3	Chalk & Board
13	2.5	Motion Diagrams & Problems		4	Chalk & Board
14	2.6	Dependent Motion & Problems		4	Chalk & Board
15	2.7	Relative Motion & Problems		4	Chalk & Board
16	2.8	D'Alemberts Principle & Problems		4	Chalk & Board
17		MCQ And Assignment On Unit 2		2.	PPT & Chalk & Board
18	3.1	Introduction To Curvilinear Motion		3	Chalk & Board
19	3.2	Rectangular Coordinates & Problem	Feb. 2018	3	Chalk & Board
20	3.3	N & T Coordinates & Problem	reb. 2018	3	Chalk & Board
21	3.4	Polar Coordinates & Problem		3	Chalk & Board
22	3.5	Radius of Curvature & Problem		4	Chalk & Board
23	3.6	Projectile Motion and Problems		4	Chalk & Board

24	3.7	Equation Of trajectory & Problems		4	Chalk & Board
25	126	MCQ And Assignment On Unit 3		4	PPT & Chalk & Board
26	4.1	Work Energy Principle	The state of the s		
27	4.2	Problems on W-E Principle	- 1	5	Chalk & Board
28	4.3	Impulse Momentum Principle & Impact		5	Chalk & Board
29	4.4	Problems on I-M Principle		1	Chalk & Board
30	4.5	Theory of Impact	0	1	Chalk & Board
31	4.6	Problems on Impact		1	Chalk & Board
32	4.7	Coefficient of restitution & Problems		1	Chalk & Board
33		MCQ And Assignment On Unit 4		2	PPT & Chalk & Board
34	5.1	Introduction to Equilibrium	121 124 1-1	2	Chalk & Board
35	5.2	Problems on Equilibrium of bodies		2	Chalk & Board
36	5.3	Simple Beams & Loads		2	Chalk & Board
37	5.4	Problems on simple beam		3	Chalk & Board
38	5.5	Compound Beams		3	Chalk & Board
39	5.6	Problems on Compound Beam		3	Chalk & Board
40	5.7	Space Force & Problems	March	3	Chalk & Board
41		Assignment No 5	2018	4	Chalk & Board
42	6.1	Introduction to Truesses	2010	4	Chalk & Board
43	6.2	Method of Joints & Problems		4	Chalk & Board
44	6.3	Method of section & Problems		4	Chalk & Board
45	6.4	Analysis of cables		4	Chalk & Board
46	6.5	Problems on cables		5	Chalk & Board
47	6.6	Analysis of Frames & Problems		5	Chalk & Board
48	6.7	Friction & problems		5	Chalk & Board
49		Assignment No 6		5	Chalk & Board

Note: 1.Home Assignment will be given after completion of each unit.

2. Class Test I & II will be conduct as per the schedule of Academic Calendar.

(Prof. A. G. Tambe)

(Prof. S. T. karle)

Name of staff

HOD

# <u>101:</u> Accounting For Business Decisions

# MBA-I

**Teaching Scheme:** Lectures: 4 h / week

**Examination Scheme:** 

In Semester: 30 End Semester: 50 Online: 20

Total: 100

# Term I, July 2017 through Dec. 2017, Academic Year 2017-18

Lect. No.	Month	Week Dates	Name of Topic
		17	Registration MBA-1.
1			Unit-I Basic Concepts: Meaning of Business decisions and importance of business decisions. Forms of business organizations, meaning of accounting, basic concepts, terms used in business accounting.
2	July	17-22	Types of accounts, journal, ledger and trial balance. Accounting equations and users of accounting information.
3			Accounting concepts and conventions
5 8		24-29	Difference between financial, cost accounting and management accounting, Use and applicability of Tally in accounting
9			Unit-II Understanding of Financial Statements . Meaning of Financial statements
11	1	31-05	Importance and objectives of financial statements.
13	AUGUST .	07-12	Preparation of final accounts of sole proprietary firm
17		14.10	Making financial decisions on the basis of financial statements.
18		14-19	Unit-III Cost Accounting

19			Basic concepts of cost accounting
20			Objectives of Cost Accounting
	-		Classification and analysis of costs
	_		Relevant and irrelevant costs
		21-26	differential costs, sunk costs,
21			Preparation of Simple Cost sheet
22		28-31	Cost Control:
23 24 25		1-2	Material cost control
26			Procurement
		4-9	Pricing of issues,
			Inventory control techniques,
			Fixation of various levels
			material losses, Labour cost control
27 28 29	SEPTEMBER	11-16	Marginal costing
30			time keeping and time booking
31		A*	Overheads, Collection
32		18-23	Classifications
33			allocation and apportionment of overheads
34			Decision making tools
35	•		Break-even point
36		25-30	Cost Volume Profit analysis
37	4		Optimizing product mix

38			Pricing decisions
39	Derisario		Budgeting
40		2.7	Cash and Flexible budgets only
41		2-7	Standard costing
	OCTOBER		Standard Costing
42			Material
43		09-14	Labour Variances
44			FINAL ACCOUNT
45			LIFO FIFO
	NOVEMBER	01-11(Two weeks)	Remedial Class
		18	Online Exam 9th to 14th Final
	DECEMBER		Final submission MBA & Conclusion of Teaching of MBA.

(Prof. Rahul Bhandari) Sub I/C

(Prof Amol Kare) HOD

Head of Department

Master Of Business Administration S. V. Institute of Technology, Nashik

our (Dr..N. Shelke)

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# 301: Strategic Management MBA-II

**Teaching Scheme:** Lectures: 4 h / week

**Examination Scheme:** 

In Semester: 30 End Semester: 50

Online: 20 Total: 100

# Term I, July 2017 through Dec. 2017, Academic Year 2017-18

	Lect. No.	Month	Week Dates	Name of Topic
			17	Registration MBA-1.
	1			1.1 Understanding Strategy Concept of strategy, Corporate, Business Functional Levels of Strategy
	2		17-22	1.2 Introduction to Strategic Management: Meaning and Characteristics of strategic management, strategic
		July		management Vs. operational management
	3			
	4			1.3 Four Phases in Strategic Management Process:     Stakeholders in business and their roles in strategic management
Ì	5			
	8		24-29	1.4 Hierarchy of Strategic Intent: Meaning & attributes of strategic intent, Meaning of Vision, Process of envisioning, Meaning of mission, difference between vision & mission, characteristics of good mission statements
1	9		e.	
	11		31-05	Business definition using Abell's three dimensions, objectives and goals, Linking objectives to mission & vision. Critical success factors (CSF), Key Performance Indicators (KPI), Key Result Areas (KRA).
		AUGUST		The state of the s
	13		07-12	1.5 Analyzing Company's External Environment: Environmental appraisal Scenario planning – Preparing an Environmental Threat and Opportunity Profile (ETOP).
	17		14-19	

			Analyzing Industry Environment: Industry Analysis - Porter's Five Forces Model of competition, Entry & Exit Barriers, Strategic Group analysis
			Unit-II
18			2.1 Analyzing Company's Internal Environment: Resource based view of a firm, meaning, types & sources of competitive advantage, analyzing Company's Resources and Competitive Position, VRIO Framework
19			competitive parity & competitive disadvantage, Core Competence, characteristics of core competencies
20			Distinctive competitiveness, Benchmarking as a method of comparative analysis.
			2.2Value Chain Analysis Using Porter's Model: primary & secondary activities.
-		21-26	2.3Organizational Capability Profile: Strategic Advantage Profile,
			Concepts of stretch, leverage & fit, ways of resource leveraging
21			concentrating, accumulating, complementing, conserving, recovering
22		28-31	2.4Portfolio Analysis: Business Portfolio Analysis - BCG Matrix - GE 9 Cell Model
23 24 25		1-2	3.1 Generic Competitive Strategies: Meaning of generic competitive
26		4-9	Low cost, Differentiation, Focus – when to use which strategy
			3.2Grand Strategies: Stability, Growth (Diversification Strategies, Vertical Integration Strategies, Mergers, Acquisition & Takeover Strategies
	SEPTEMBER		Retrenchment – Turnaround,
			Divestment, Liquidation,
	-		, Outsourcing Strategies
27			<b>4.1 Strategy Implementation:</b> Components of a strategic plan, barriers to implementation of strategy
28		11-16	
29		11-10	
30			Mintzberg's 5 Ps – Deliberate & Emergent Strategies , Mc Kinsey's 7s Framework

31			
32			4.2Organization Structures for Strategy Implementation: entrepreneurial, functional, divisional
33			, SBU, Matrix, Network structures,
34		18-23	matching structure to strategy, organizational design for stable Vs. turbulent environment
35	-		<b>4.3Changing Structures &amp; Processes</b> : Reengineering & strategy implementation – Principles of Reengineering, Six Sigma
36			
37		25-30	
38	1		measuring, analyzing, improving
39		2-7	Management by Objectives (MBO), Total Quality Management
40	OCTOBER		(TQM).
41			4.5 Strategy Evaluation: Operations Control and Strategic Control
42		09-14	5.1 Blue Ocean Strategy: Difference between blue & red ocean strategies
43			5.2 Business Models: Meaning & components of business models, new business models for Internet Economy– E-Commerce Business Models
			5.3 Sustainability & Strategic Management
44			Threats to sustainability, Integrating Social & environmental sustainability issues in strategic management, meaning of triple bottom line, people-planet-profits
45	:		, meaning of triple bottom line, people-planet-profits
	NOVE DES	01-11(Two	Remedial Class
	NOVEMBER	weeks)	Online Exam 9th to 14th Final
		- 10	
	DECEMBER		Final submission MBA & Conclusion of Teaching of MBA.

(Prof. Rahul Bhandari) Sub I/C (Prof.Amol Kare)

Master Of Business Administration S. V. Institute of Technology, Nashik (Dr.S.N.Shelke) Principal

Sir Visvesvaraya Institute of Technology
Chincholi, Nasik-422102

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