20BSM703T				Statics and Dynamics					
Teaching Scheme				Examination Scheme					
Р		c	Hrs. / Week	Theory Practical					Total
				MS	ES	IA	LW	LE/Viva	Marks
0	4	1	4	25	50	25			100
BJECT	IVES								
) famil	iarize s on an	students	with the impo	ortance of this	subject in the f	field of science	and enginee	ring.	
learn	kinem	atics, kir	netics of partic	le and rigid b	ody, effect of fr	iction on equili	brium.		
analy	ze the	statics o	of frames and i	machines, equ	uation of static	equilibrium & d	lynamic equi	librium of particle	es and rigid bodies.
QUIL	BRIUI	M OF RI	IGID BODIES						10 Hrs.
m of p es in 3	article -D.	s in 2-D a	and 3-D, Equiv	alent systems	s of Forces, mor	ments, couples,	, Equilibrium	of rigid bodies in	2-D, Equilibrium of
PPLIC	ATIO	NS							8 Hrs.
and c	<mark>enter (</mark>	of gravity	<mark>y, Moments of</mark>	<mark>f inertia, Anal</mark> y	<mark>/sis of structure</mark>	<mark>s: Trusses, frar</mark>	nes and macl	<mark>nines, Forces in b</mark>	eams, Friction.
INEMATICS OF PARTICLES								11 Hrs.	
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cs of p	article	s, Rectili	near motion, (Curvilinear mo	otion, Newton's	second law of	motion, Mo	tion of particles ι	Inder central force,
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School of Liberal Studies

UNIT 1 EQU

Equilibrium rigid bodies

UNIT 2 APP

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UNIT 3 KIN

Kinematics o Kinetics of pa

UNIT 4 MO

Systems of p momentum

COURSE OUT

On completion

- <mark>CO1 Demons</mark>
- <mark>CO2 Apply kn</mark>
- CO3 Analyze

CO4 – Solve the

CO5 – Evaluate

<mark>CO6 – Formula</mark>

TEXT/REFERE

- 1. I.H.
- 2. F.P. 2008
- 3. R.C.
- 4. J.L. N
- K. L. 5.

Max. Marks: 100	Exam Duration: 3 Hrs.
Part A: 6 questions of 4 marks each	24 Marks
Part B: 6 questions of 8 marks each	48 Marks
Part C: 2 questions of 14 marks each	28 Marks