## Branch: MECHANICAL ENGINEERING

Semester Pattern (Choice Based Credit Grade System)

							SEM	ESTER:	FIFTH								
	Subject Code	Subject	TI	EAC	HIN	IG SCH	EME			EXA	AMINA	TION SCI	HEME				
Sr.			HOURS / WEEK			EEK	S	THEORY						PRACTICAL			
No.			Lecture	Tutorial	P/D	Total HRS/WEEK	CREDITS	on of (Hr.)	Max. Marks Theory	Internal Marks	le le	ssing ks	Max. Marks			Min. Passir	
			Pec	Tutc	Ь			Duration of Paper (Hr.)	Paper	Inte	Total	Min. Passing Marks	III.	LXI.		g Marks	
								THEOR	Y								
01	5ME01	Heat Transfer	3			3	3	3	80	20	100	40		-		-	
02	5ME02	Metrology & Quality Control	3			3	3	3	80	20	100	40					
03	5ME03	Kinematics of Machines	3	1		4	4	3	80	20	100	40					
04	5ME04	Measurement Systems	3			3	3	3	80	20	100	40			-	_	
05	5ME05	Open Elective – I (OE-I)	3		-	3	3	3	80	20	100	40			-	-	
			1			PRAC	TICAL	S / DRAW	/ING / DE	SIGN	1			1			
06	5ME06	Heat Transfer- lab.			2	2	1	-	-	-	-	-	25	25	50	25	
07	5ME07	Metrology & Quality Control- lab.	-		2	2	1	-	-	-	-	-	25	25	50	25	
08	5ME08	Kinematics of Machines- lab.			2	2	1	-	-	-	-	-	25	25	50	25	
09	5ME09	Measurement Systems –lab.	-		2	2	1	-	-	-	-	-	25	25	50	25	
Total 15 1 8 24 20 500											-	200	-				
	Grand Total															700	
Open Elective – I (For other Disciplines): (i) Industrial Robotics and Applications (ii) Modern Manufacturin																	
Ор	en Electiv	/e-I to be opted from t	the						ng & Tech gineering F			nter-disci	plinary c	ourses	or M0	OOCs	

An Orientation Program of 15 Hours duration / MOOCs on Advanced Courses line Machine learning, 3-D Printing, Virtual Reality, Supply Chain Management, Numerical Computation for Mechanical Engineers, Biomechanics, Fundamentals of nano-Engineering, Micro-Electromechanical Systems, Nano-to-Macro Transport Processes, Fundamentals of Photo Voltaic, Machine Tools etc. be offered during V semester.

							SE	MESTER	: SIXTH							
Sr. No.	Subject Code	Subject			ACH CHE	ING ME		EXAMINATION SCHEME								
				URS VEE		<b>×</b>			PRACTICAL							
			Lecture	Tutorial	P/D	Total HRS/WEEK	CREDITS	Duratio n of Paper (Hr.)	Max. Marks Theory Paper	Intern al Marks	Tot al	Min. Passing Marks	Max. Max. M	Marks Ext.		Min. Passin g Marks
	THEORY															
01	6ME01	Design of Machine Elements	3			3	3	3	80	20	100	40				
02	6ME02	Dynamics of Machines	3	1		4	4	3	80	20	100	40			-	
03	6ME03	Control System Engineering	3			3	3	3	80	20	100	40				
04	6ME04	Prof. Elective - I	3		-	3	3	3	80	20	100	40				
05	6ME05	Open Elective - II	3		-	3	3	3	80	20	100	40				
		I		ı	PR	AC1	ICA	LS / DRA	WING / D	ESIGN			I	I		l
06	6ME06	Design of Machine Elements- lab.			2	2	1			-	-		25	25	50	25
07	6ME07	Dynamics of Machines- lab.			2	2	1		-				25	25	50	25
08	6ME08	Computer Aided Design & Simulation - lab.	-		2	2	1				1		25	25	50	25
09	6ME09	Research Skills - lab.			2	2	1						25	25	50	25
	Total 15 1 8 24 20										500				200	
				1		Gı	and	Total		1			1	1	700	

6ME04: Prof. Elect. (I): (i) Non- Conventional Energy Sources (ii) Project Management (iii) Lean Manufacturing

6ME05: Open Elect. (II) [For other Disciplines]: (i) Renewable Energy Technologies (ii) Automobile Engineering and Electric Vehicles

**Open Elective-II** to be opted from the University's faculty of Engineering & Technology offered inter-disciplinary courses or MOOCs courses pertaining to the Engineering Profession.