

COURSE SCHEME											
BATCH 2018-2022											
B.Tech in MECHANICAL ENGINEERING											
Choice Based Credit System											
SEMESTER I											
S. No	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	BSC101	Physics I	3	1	0	20	10	30	70	100	4
2	BSC102	Mathematics I	3	1	0	20	10	30	70	100	4
3	ESC101	Basic Electrical Engineering	3	1	0	20	10	30	70	100	4
4	ESC102	Engineering Graphics & Design	1	0	0	20	10	30	70	100	1
5	HSMC101	English	2	0	2	20	10	30	70	100	3
PRACTICAL /SESSIONAL											
1	7BSC101P	Physics I Lab	0	0	3			30	20	50	1.5
2	ESC101P	Basic Electrical Engineering Lab	0	0	2			30	20	50	1
3	ESC102P	Engineering Graphics & Design Lab	0	0	4			30	20	50	2
									TOTAL	650	20.5

BATCH 2018-2022											
B.Tech in MECHANICAL ENGINEERING											
SEMESTER II											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	BSC103	Chemistry I	3	1	0	20	10	30	70	100	4
2	BSC104	Mathematics II	3	1	0	20	10	30	70	100	4
3	ESC103	Programming for Problem Solving	3	0	0	20	10	30	70	100	3
4	ESC104	Workshop Practice	1	0	0	20	10	30	70	100	1
5	MC101	**Environmental Science	3	0	0	20	10	30	70	100	0
6	HSMC102	**Life Skills	2	0	0	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
1	BSC103P	Chemistry I Lab	0	0	3			30	20	50	1.5
2	ESC103P	Programming for Problem Solving Lab	0	0	4			30	20	50	2

3	ESC104P	Workshop Practice Lab	0	0	4			30	20	50	2
								TOTAL		750	17.5

**** NOTE: Qualifying Non Credit Course**

BATCH 2018-2022											
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SEMESTER III											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	7BSC201	Mathematics- III	3	1	0	20	10	30	70	100	4
2	BSC202	Biology for Engineers	3	0	0	20	10	30	70	100	3
3	7BSC203	Physics-II	3	1	0	20	10	30	70	100	4
4	7ESC202	Basic Electronics Engineering	3	1	0	20	10	30	70	100	4
5	7ESC201	Engineering Mechanics	3	1	0	20	10	30	70	100	4
6	7PCCME201	Thermodynamics	3	1	0	20	10	30	70	100	4
7	HSMC201	Effective Technical Communication	3	0	0	20	10	30	70	100	3
PRACTICAL /SESSIONAL											
								TOTAL	700	26	

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SEMESTER IV											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	7PCCME202	Applied Thermodynamics	3	1	0	20	10	30	70	100	4
2	7PCCME203	Fluid Mechanics & Fluid Machines	3	1	0	20	10	30	70	100	4
3	7PCCME204	Strength of Materials	3	1	0	20	10	30	70	100	4
4	7PCCME205	Materials Engineering	3	0	0	20	10	30	70	100	3
5	7PCCME206	Instrumentation & Control	3	1	0	20	10	30	70	100	4
6	HSMC202	Professional Practice, Laws & Ethics	3	0	0	20	10	30	70	100	3
7	MC201	**Disaster Management	3	0	0	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
								TOTAL	700	22	

* Students to proceed Industry post examination for a of 45 days for Project Work I

** NOTE: Qualifying Non Credit Course

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SEMESTER V											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	7PCCME301	Heat Transfer	3	1	0	20	10	30	70	100	4
2	7PCCME302	Solid Mechanics	3	1	0	20	10	30	70	100	4
3	7PCCME303	Manufacturing Processes	3	0	0	20	10	30	70	100	3
4	7PCCME304	Kinematics & Theory of Machines	3	1	0	20	10	30	70	100	4
5	MC301	**Constitution of India	2	0	0	20	10	30	70	100	0
6	HSMC301	**Professional Skills	2	0	0	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
1	7PCCME305P	Mechanical Engineering Laboratory I	0	0	3			30	20	50	1.5
2	7PROJME306	Project I	0	0	2		75	75	25	100	2.5
									TOTAL	750	19

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** NOTE: Qualifying Non Credit Course

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B.Tech in MECHANICAL ENGINEERING											
SEMESTER VI											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	7PCCME307	Manufacturing Technology	4	0	0	20	10	30	70	100	4
2	7PCCME308	Design of Machine Elements	3	1	0	20	10	30	70	100	4
3		Professional Elective	3	0	0	20	10	30	70	100	3
4		Professional Elective	3	0	0	20	10	30	70	100	3
5	MC302	**Essence of Indian Knowledge Tradition	2	0	0	20	10	30	70	100	0
6	HSMC302	**Soft skills & interpersonal Communication	2	0	0	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
1	7PCCME309P	Mechanical Engineering Laboratory-II	0	0	3			30	20	50	1.5
2	7PROJME310	Project II	0	0	2		75	75	25	100	3
									TOTAL	750	18.5

* Students to proceed Industry post examination for a of 45 days for Project Work III

**** NOTE: Qualifying Non Credit Course**

Professional Elective Course (Select any two)					
Code	Course Title	L	T	P	C
7PECMEL321	Internal Combustion Engines	3	0	0	3
7PECMEL322	Mechatronic Systems	3	0	0	3
7PECMEL323	Microprocessors in Automation	3	0	0	3
7PECMEL324	Composite Materials	3	0	0	3
7PECMEL325	Computer Aided Design	3	0	0	3

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SEMESTER VII											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1	7PCCME 401	Automation in Manufacturing	3	0	0	20	10	30	70	100	3
2		Professional Elective	3	0	0	20	10	30	70	100	3
3		Professional Elective	3	0	0	20	10	30	70	100	3
4		Open Elective I	3	0	0	20	10	30	70	100	3
5	HSMC401	**Seminar in Executive Communication	0	0	4	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
1	7PCCME402P	Mechanical Engineering Laboratory-III	0	0	3			30	20	50	1.5
2	7PROJME403	Project III	0	0	10			150	50	200	5
								TOTAL	750	18.5	

* Students to proceed Industry post examination for a of 45 days for Project Work IV

** NOTE: Qualifying Non Credit Course

Professional Elective (Select any two)					
Code	Course Title	L	P	T	C
7PECMEL421	Refrigeration and Air Conditioning	3	0	0	3
7PECMEL422	Finite Element Analysis	3	0	0	3
7PECMEL423	Power Plant Engineering	3	0	0	3
7PECMEL424	Gas Dynamics and Jet Propulsion	3	0	0	3
7PECMEL425	Process Planning and Cost Estimation	3	0	0	3

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SEMESTER VIII											
S.No.	CODE	COURSE TITLE	Periods			Evaluation Scheme				Subject Total	Credit
			L	T	P	Assignment	TA	Total	ESE		
1		Professional Elective	3	0	0	20	10	30	70	100	3
2		Professional Elective	3	0	0	20	10	30	70	100	3
3		Open Elective II	3	0	0	20	10	30	70	100	3
4		Open Elective III	3	0	0	20	10	30	70	100	3
5	HSMC402	**Human Values & Ethics	2	0	0	20	10	30	70	100	0
PRACTICAL /SESSIONAL											
1	7PROJME404	Project IV	0	0	12			150	50	200	6
									TOTAL	700	18

**** NOTE: Qualifying Non Credit Course**

Professional Elective (Select any two)						
Sl.No.	Code	Course Title	L	T	P	C
1	7PECMEL431	Principles of Management	3	0	0	3
2	7PECMEL432	Automobile Engineering	3	0	0	3
3	7PECMEL433	Design of Transmission Systems	3	0	0	3
4	7PECMEL434	Total Quality Management	3	0	0	3
5	7PECMEL435	Energy Conservation and Management	3	0	0	3

DEPARTMENT OF MECHANICAL ENGINEERING						
CBCS (Choice Based Credit System)						
OPEN ELECTIVE I						
Select Anyone						
Subject Code	Subject Name	L	P	T	Credit	Semester
11.622.6	Manpower planning and Recruitment	3	0	0	3	VII
8.403	Mining Machinery II	3	0	0	3	VII
13A.212	Farm Machinery and Power	3	0	0	3	VII
OPEN ELECTIVE II						
Select Anyone						
Subject Code	Subject Name	L	P	T	Credit	Semester
5A.454	Advance Disaster Management	3	0	0	3	VIII
9.474	Entrepreneurship	3	0	0	3	VIII
11.652	Environmental Management	3	0	0	3	VIII
OPEN ELECTIVE III						
Select Anyone						
Subject Code	Subject Name	L	P	T	Credit	Semester
11.556	Research Methodology	3	0	0	3	VIII
11.553	Marketing Management	3	0	0	3	VIII
11.651	Enterprenueship & Small Business Management	3	0	0	3	VIII
11.671.2	Project Planning Analysis & Management	3	0	0	3	VIII
13A.357	Renewable Energy & Green Technology	3	0	0	3	VIII
13A.131	Soil & Water Conservation Technology	3	0	0	3	VIII
7.401	Operation Research & Techniques	3	0	0	3	VIII

Note-MOOCs introduced through SWAYAM in all semester.

Note- Upto 20% Credit earn through MOOC (SWAYAM)