Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

IV Semester **Bachelor of Technology (B.Tech.) [Mechanical Engineering]**

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work / Lab Work & Sessional		L	T	P	
1.	**ES401**	BSC	**Energy & Environmental Engineering**	70	20	10	-	-	100	3	1	-	4
2.	**ME402**	DC	**INSTRUMENTATION & CONTROL**	70	20	10	30	20	150	2	1	2	4
3.	**ME403**	DC	**THEORY OF MACHINES**	70	20	10	30	20	150	3	1	2	5
4.	**ME404**	DC	**FLUID MECHANICS**	70	20	10	30	20	150	3	1	2	5
5.	**ME405**	DC	**MANUFACTURING TECHNOLOGY**	70	20	10	30	20	150	3	0	2	4
6.	**ME406**	DLC*	**SOFTWARE LAB**	-	-	-	30	20	50	-	-	4	2
7.	**BT407**	DLC	**90 hrs Internship based on using various software's –Internship -II**	**To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.**									**3**
			Total	**350**	**100**	**50**	**150**	**100**	**750**	**14**	**4**	**12**	**24**
8.	**BT408**	MC	Cyber Security	**Non-credit course**									
			NSS/NCC										

***A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.**

MST: Minimum of two mid semester tests to be conducted.

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VI Semester Bachelor of Technology (B.Tech.) Mechanical Engineering *(w.e.f. Jan, 2020)*

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work / Lab Work & Sessional		L	T	P	
1.	ME601	DC	Thermal Engineering and Gas Dynamics	70	20	10	30	20	150	2	1	2	4
2.	ME602	DC	Machine Component Design	70	20	10	30	20	150	2	1	2	4
3.	ME603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	ME604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	ME605	D Lab	CAD Lab	-	-	-	30	20	50	-	-	6	3
6.	ME606	O/E Lab	RDBMS	-	-	-	30	20	50	-	-	6	3
7.	ME607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	ME608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits[#]	*[#]Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.*											
			Total	280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Turbo Machinery	604(A) Robotics
603 (B) Computer Aided Engineering	604(B) Optimization Techniques
603(C) Product Design	604(C) Renewable Energy Technology

Swayam on line course (any one of one sem duration)

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**

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New Scheme of Examination as per AICTE Flexible Curricula

VIII Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering] *(w.e.f. Jan, 2021)*

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work / Lab Work & Sessional		L	T	P	
1.	ME 801	DC	Refrigeration &Air Conditioning	70	20	10	30	20	150	2	1	2	4
2.	ME 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	ME 804	D/O/E Lab	Simulation and Modeling	-	--	-	30	20	50	-	-	6	3
5.	ME 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits[#]	[#]*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.*											
			Total	210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Automobile Engineering	803(A)Data analytics
802 (B) Tribology & Maintenance Engineering	803(B) Energy Conservation, Management& Audit
802 (C) Machine Tool Design	803(C) Entrepreneurship and Management Concepts
802 (D)Production Planning and Control	803 (D) Management Information System

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	**1 Credit**	**1 Credit**