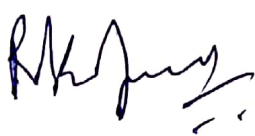
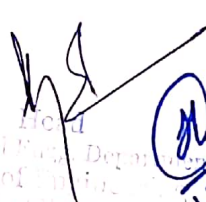
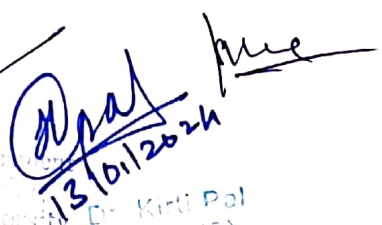
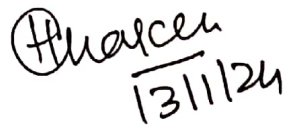


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**M. Tech. in  
Mechanical Engineering (Weekend) for Working  
Professionals**

<b>M. Tech. (Mechanical Engineering) Weekend – I Semester</b>						
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
		<b>Theory Courses</b>			<b>UGC</b>	<b>AICTE</b>
1	ME 501	Research Methods and Techniques	3-1-0	4	FC1	PCC
2	*ME 583	Advanced Thermal Engineering	3-1-0	4		
3		<b>Department Elective I</b>	3-1-0	4	DSE1	PEC
		<b>Practical/Seminar/Dissertation Courses</b>				
4	ME 579	Advanced Thermal Engineering Lab	0-0-2	2	FC3	PCC
		<b>Total</b>		<b>14</b>		
		<b>Total Contact Hours</b>	<b>9-3-2</b>			

<b>M. Tech. (Mechanical Engineering) Weekend- II Semester</b>						
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
		<b>Theory Courses</b>			<b>UGC</b>	<b>AICTE</b>
1	ME 503/ ME 564	Finite Element Methods/ Computational Fluid Dynamics	3-1-0	4		
2	ME 532	Metal Cutting and Tool Design	3-1-0	4	CC2	PCC
3		<b>Department Elective II</b>	3-1-0	4	DSE3	PEC
		<b>Practical/Seminar/Dissertation Courses</b>				
4	ME 523/ ME 582	Advance Finite Element Methods lab/ Computational Fluid Dynamics Lab	0-0-2	2		
		<b>Total</b>		<b>14</b>		
		<b>Total Contact Hours</b>	<b>9-3-2</b>			

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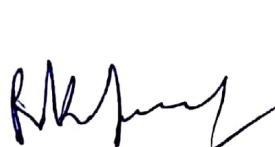
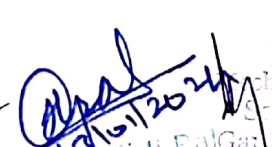
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**M. Tech. (Mechanical Engineering) Weekend- III Semester**

S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
<b>Theory Courses</b>					<b>UGC</b>	<b>AICTE</b>
1	ME 505	Product Design and Development	3-1-0	4		
2	ME 531	Automation, Machine Vision and Robotics	3-1-0	4	CC1	PCC
<b>Practical/Seminar/Dissertation Courses</b>						
4	*ME 585	Advanced Manufacturing Engineering Lab	0-0-2	2		
5	*ME 587	Seminar on Research Topics	0-0-4	2	SEC2	PCC
6	GP	General Proficiency	-	NC		
<b>Total</b>				<b>12</b>		
<b>Total Contact Hours</b>			<b>6-2-6</b>			

**M. Tech. (Mechanical Engineering) Weekend- IV Semester**

S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
<b>Theory Courses</b>					<b>UGC</b>	<b>AICTE</b>
1	ME 534	Smart Manufacturing and Industry 4.0	3-1-0	4	CC3	PCC
2		<b>Open Elective I</b>	3-1-0	4	OE1	OEC
<b>Practical/Seminar/Dissertation Courses</b>						
3	ME 552	Smart Manufacturing Lab	0-0-2	2	CC4	PCC
4	*ME 588	Preliminary Research Plan	0-0-6	4	CC5	PCC
5	GP	General Proficiency	-	NC		
<b>Total</b>				<b>14</b>		
<b>Total Contact Hours</b>			<b>6-2-8</b>			



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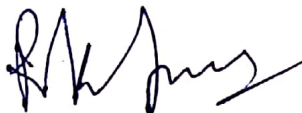
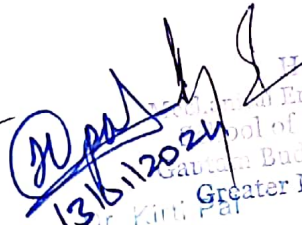


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M. Tech. (Mechanical Engineering) Weekend- V Semester						
S. No.	Course Code	Name of Course	L-T-P	Credits	Course Type	
		<b>Theory Courses</b>			UGC	AICTE
	-----	-----				
		<b>Practical/Seminar/Dissertation Courses</b>				
2	ME 633	Dissertation I	0-0-16	16	E-DP 1	PCC
3	GP	General Proficiency		NC		
		<b>Total</b>		<b>16</b>		
		<b>Total Contact Hours</b>	<b>0-0-16</b>			

Open Elective: Course from other Schools

M. Tech. (Mechanical Engineering) Weekend- VI Semester						
S. No.	Course Code	Name of Subject	L-T-P	Credits	Course Type	
		<b>Theory Courses</b>			UGC	AICTE
	-----	-----				
		<b>Practical/Seminar/Dissertation Courses</b>				
1	ME 634	Dissertation II	0-0-20	20	E-DP 2	PCC
2	GP	General Proficiency		NC		
		<b>Total</b>		<b>20</b>		
		<b>Total Contact Hours</b>	<b>0-0-20</b>			

**Total Credit from Semester I to VI of M. Tech. Mechanical Engineering for Working Professionals: 90**

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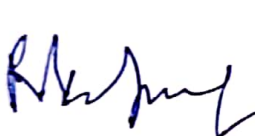
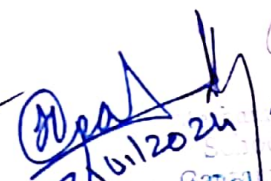
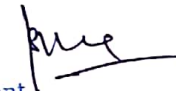

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# List of Electives for M. Tech. Mechanical Engineering

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S. No.	Course Code	Name of Course	L-T-P	Credits
<b>M. Tech. (Mechanical Engineering) Weekend- I Semester</b>				
<b>Department Elective -I</b>				
1	ME 533	CNC Machines and Programming	3-1-0	4
2	ME 507	Advance Mechanical Design	3-1-0	4
3	ME 569	Advanced Fluid Mechanics	3-1-0	4
4	ME 517	Design of Hydraulic and Pneumatic Systems	3-1-0	4
5	ME 541	Flexible and Computer Integrated Manufacturing	3-1-0	4
6	ME 575	Cryogenic Technology	3-1-0	4
7	ME 545	Design of Manufacturing Systems	3-1-0	4
<b>M. Tech. (Mechanical Engineering) Weekend- II Semester</b>				
<b>Department Elective -II</b>				
1	ME 536	Composite Materials and Analysis	3-1-0	4
2	ME 566	Experimental Methods in Thermal Engineering	3-1-0	4
3	ME 540	Design for Manufacturing and Assembly	3-1-0	4
4	ME 542	Fundamentals of Mechatronics	3-1-0	4
5	ME 544	Machine Tool Design	3-1-0	4
6	ME 546	Manufacturing Systems Management	3-1-0	4
7	ME 548	Rapid Prototyping and Manufacturing	3-1-0	4
8	ME 574	Heat Exchanger Analysis and Design	3-1-0	4

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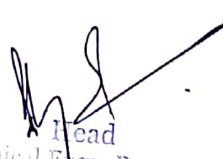
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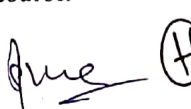
S. No.	Course Code	Name of Course	L-T-P	Credits
<b>M. Tech. (Mechanical Engineering) Weekend- IV Semester</b>				
<b>Open Elective -I</b>				
<b>1</b>	ES 509	Environment Impact Assessment and Sustainable Development	3-1-0	4
<b>2</b>	MA 028	Mathematical Modeling with MATLAB	3-1-0	4
<b>3</b>	CS621	Artificial Intelligence Methods for Software Engineering	3-1-0	4

Semester	Credits
I	14
II	14
III	12
IV	14
V	18
VI	18
<b>Total Credits - 90</b>	

- Total Credit from Semester I to VI of M. Tech. 03 years (Mech. Engg.) Weekend course: 90
- There is no change in the syllabus of the subjects which are common in M. Tech. 02 years course and M. Tech. 03 years (Mech. Engg.) Weekend course.
- \* Courses added for M. Tech. 03 years (Mech. Engg.) Weekend course.

  
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