Minor Specialization offered by Mechanical Engineering dept. with ECE dept.: Industrial Automation									
S. No.	**Course Code**	**Dept.**	**Sem.**	**Course Title**	Contact Hours				**Credits**
					L	T	P	Total	
3	18B11EC914	ECE	IV	Transducers Engineering	3		-	3	3
4	18B17EC974	ECE	IV	Transducers Engineering Lab	-	-	2	2	1
5	18B11ME911	MEC	V	Robotics	3	-	-	3	3
6	18B11EC919	ECE	V	Digital Control System	3	-	-	3	3
7	18B17ME971	MEC	V	Robotics/CIM Lab	-	-	2	2	1
8	18B11ME913	MEC	VI	Industrial Automation	3	-	-	3	3
9	18B11ME914	MEC	VI	Control of Industrial Automation	3	-	-	3	3
10	18B11ME912	MEC	VII	Special Purpose Vehicle	3	-	-	3	3
				Total	24	-	4	28	**20**

Minor Specialization offered by Mechanical Engineering dept. with ECE dept.: Mechatronics									
S. No.	**Course Code**	**Dept.**	**Sem.**	**Course Title**	Contact Hours				**Credits**
					L	T	P	Total	
3	18B11EC914	ECE	IV	Transducers Engineering	3		-	3	3
4	18B17EC974	ECE	IV	Transducers Engineering Lab	-	-	2	2	1
5	18B11ME917	MEC	V	Vehicle Dynamics	3	-	-	3	3
6	18B11ME915	MEC	V	Computer Integrated Manufacturing	3	-	-	3	3
7	18B17ME975	MEC	V	CIM Lab	-	-	2	2	1
8	18B11ME918	MEC	VI	Control of Mechanical System	3	-	-	3	3
9	18B11EC915	ECE	VI	Micro-controller and Embedded System	3	-	-	3	3
10	18B11ME916	MEC	VII	Automated Guided Vehicles	3	-	-	3	3
				Total	24	-	4	28	**20**

Department of Mechanical Engineering

S. No.	Name of Micro Specialization	Head Course (s)			Elective Courses		
		Course Name	Semester	Credit	Course Name	Semester	Credits
1	Intelligent Manufacturing	**1.** Manufacturing Technology-2 **2**. Manufacturing Technology Lab-2	IV	3+1 = 4	Advanced Manufacturing Processes	V	3
					Advanced Engineering Materials	VI	3
					Smart Manufacturing	VII	3
					Micro Manufacturing	VIII	3
2	3D Printing	**1.** Manufacturing Technology-1 **2**. Manufacturing Technology Lab-1	III	3+1 = 4	Additive Manufacturing	V	3
					Advanced Engineering Materials	VI	3
					CAD for Additive Manufacturing	VII	3
					Industrial Applications of Additive Manufacturing	VIII	3
3	Renewable Energy	**1.** Basic Thermodynamics **2**. Basic Thermodynamics Lab	III	3+1 = 4	Power Plant Engineering	V	3
					Unconventional Energy Resources	VI	3
					Energy Management and Audit	VII	3
					Hybrid Energy Applications	VIII	3
4	Automobile Engineering	**1.** Basic Thermodynamics **2**. Basic Thermodynamics Lab	III	3+1 = 4	IC Engine and Electrical Power Plants for Automobiles	VI	4
					Internal Combustion Engine Lab	VI	1
					Automobile Engineering	VII	3
					Special Purpose Vehicles	VII	3