

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal MP)  
Electrical Engineering Department

# **Scheme & Syllabus**

*2014 onwards*

**ME**

in

# ***Industrial Systems & Drives***



***Electrical Engineering Department***  
**Madhav Institute of Technology & Science**  
Gwalior-474005

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal MP)  
**Electrical Engineering Department**

**M.E. I Semester**  
**Industrial Systems & Drives**  
Subject wise distribution of marks and corresponding credits

S.No.	Subject Code Old	Subject Code New	Subject Name	Maximum Marks Allotted					Total Marks	Contact Periods per week			Total Credits	Remark
				Theory Slot			Practical Slot			L	T	P		
				End sem	Mid sem	Quiz/ Assignment	End Sem	Lab work/ sessional						
1.	MISL911	580101	Computational Techniques	70	20	10	-	-	100	3	1	-	4	
2.	MISL912	580102	Static Power Converters	70	20	10	-	-	100	3	1	-	4	
3.	MISL913	580103	Advanced Microprocessors and Applications	70	20	10	-	-	100	3	1	-	4	
4.	MISL914	580104	Advanced Control System	70	20	10	-	-	100	3	1	-	4	
5.	MISL915 (i)	580105	Elective-I (i) Power Quality and FACTS Controllers	70	20	10	-	-	100	3	1	-	4	
6.	MISL915 (ii)	580106	Elective-I (ii) High Voltage Industrial Practices											
7.	MISP916	580107	Systems & Drives Lab-I	-	-	-	90	60	150	-	-	6	6	
8.	MISP917	580108	Computer Simulation Lab-I	-	-	-	90	60	150	-	-	6	6	
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>180</b>	<b>120</b>	<b>800</b>	<b>15</b>	<b>5</b>	<b>12</b>	<b>32</b>	<b>800</b>

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
(A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal MP)  
**Electrical Engineering Department**

**M.E. II Semester**  
**Industrial Systems & Drives**

Subject wise distribution of marks and corresponding credits

S.No.	Subject Code Old	Subject Code New	Subject Name	Maximum Marks Allotted					Total Marks	Contact Periods per week			Total Credits	Remarks
				Theory Slot			Practical Slot			L	T	P		
				End sem	Mid sem	Quiz/ Assignment	End Sem	Lab work/ sessional						
1.	MISL921	580201	Advanced Power Electronics	70	20	10	-	-	100	3	1	-	4	
2.	MISL922	580202	Computer Aided Protection	70	20	10	-	-	100	3	1	-	4	
3.	MISL923	580203	Modeling Simulation and Evolutionary Techniques	70	20	10	-	-	100	3	1	-	4	
4.	MISL924	580204	Electrical Machine Modeling and Drives	70	20	10	-	-	100	3	1	-	4	
5.	MISL925 (i)	580205	Elective –II (i)Restructured Power System	70	20	10	-	-	100	3	1	-	4	
6.	MISL925 (ii)	580206	Elective –II (ii) Digital Signal Processing											
7.	MISP 926	580207	Systems & Drives Lab–II	-	-	-	90	60	150	-	-	6	6	
8.	MISP 927	580208	Computer Simulation Lab-II	-	-	-	90	60	150	-	-	6	6	
			<b>Total</b>	<b>350</b>	<b>100</b>	<b>50</b>	<b>180</b>	<b>120</b>	<b>800</b>	<b>15</b>	<b>5</b>	<b>12</b>	<b>32</b>	<b>800</b>

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
 (A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal MP)  
**Electrical Engineering Department**

**ME (Third Semester)**  
**Industrial Systems & Drives**

Subject wise Distribution of Marks and Corresponding Credits

S. No.	Subject Code	Subject Code New	Subject Name	Period Per Week			Credits	Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
				L	T	P		End Sem. Exam	Tests (Two)	Assignments/Quiz	End Sem. Practical / Viva	Practical Record/Assignment/Quiz/Presentation	
1	MISL931	580301	Semiconductor Controlled Drives	3	1	-	4	70	20	10	-	-	100
2	Elective -III (Any One)			3	1	-	4	70	20	10	-	-	100
	MISL 932(i)	580302	Industrial Instrumentation										
	MISL 932(ii)	580303	Fuzzy Control										
	MISL 932(iii)	580304	Power System Instrumentation and Control										
	MISL 932(iv)	580305	Power System Analysis & Control										
3	MISP 933	580306	Industrial Training	-	-	4	4	-	-	-	-	100	100
4	MISP 934	580307	Prelim Dissertation	-	-	8	8	-	-	-	120	80	200
<b>Total</b>				<b>6</b>	<b>2</b>	<b>12</b>	<b>20</b>	<b>140</b>	<b>40</b>	<b>20</b>	<b>120</b>	<b>180</b>	<b>500</b>

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**  
 (A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal MP)  
**Electrical Engineering Department**

**ME (Forth Semester)**  
**Industrial Systems & Drives**

Subject wise Distribution of Marks and Corresponding Credits

S. No.	Subject Code	Subject Code New	Subject Name	Period Per Week		Credits		Maximum Marks (Theory Slot)			Maximum Marks (Practical Slot)		Total Marks
				L	T	P		End Sem. Exam	Tests (Two)	Assignments / Quiz	End Sem. Practical/ Viva	Practical Record/ Assignment/ Quiz/ Presentation	
1	MISP 941	580401	Dissertation Evaluation & Defense	-	-	20	20	-	-	-	300	200	500
<b>Total</b>				-	-	<b>20</b>	<b>20</b>	-			<b>300</b>	<b>200</b>	<b>500</b>