

w.e.f. JULY 2020

Master of Engineering (Industrial Systems and Drives) (Semester – I)
Scheme of Examination

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Periods per week			Total Credits
			Theory Slot			Practical Slot		MOOCs			L	T	P	
			End sem	Mid sem	Quiz/ Assignment	End Sem	Lab work/ sessional	Assignment	Exam					
1.	580111	Computational Techniques	70	20	10	-	-	-	-	100	3	-	-	3
2.	580112	Power Electronics Converters	70	20	10	-	-	-	-	100	3	-	-	3
3.	580113	Intelligent Control Techniques	70	20	10	-	-	-	-	100	3	-	-	3
4.	Elective-I (anyone)													
5.	580114	Power Quality and FACTS Controllers	70	20	10	-	-	-	-	100	3	-	-	3
	580115	Smart grid Technology												
6.	*Open Category Course -1 (OC-1)													
	800100	Industrial Instrumentation	70	20	10	-	-	-	-	100	3	-	-	3
7.	580118	Systems & Drives Lab -I	-	-	-	90	60	-	-	150	-	-	4	4
8.	580119	\$ Self Learning / Presentation (run through SWAYAM)												
		1.Electrical Distribution System Analysis 2.DC Micro grid and Control System	-	-	-	-	100	-	-	100	-	-	2	2
		Total	350	100	50	90	160	-	-	750	15	-	6	21

During labs, students have to perform practical/assignments/ minor projects related to theory subjects/theoretical concepts of respective semester using recent technologies / languages / tools etc.

*** Open Category course (OC-1) will have to be opted from the pool of open courses (offered by other than parent department) and based on interdisciplinary aspects.**

§Self learning / presentation through SWAYAM / NPTEL (Registration in a course will be compulsory for students bus assessment will be based on internal seminar presentation)

#There may be one course of Mathematics (title of the course may be finalized by the concerning department in consultation with the Applied Mathematics Department). If the departments wish to run mathematics course, the course syllabi must be uniform to all the departments. The need is to be analyzed by the department itself.

W.E.F JULY 2020

Master of Engineering (ISD) (Semester-II)
Scheme of Examination

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Periods per week			Total Credits
			Theory Slot			Practical Slot		MOOCs			L	T	P	
			End sem	Mid sem	Quiz/ Assignment	End Sem	Lab work /sessional	Assignment	Exam					
1.	580211	Semiconductor Controlled Drives	70	20	10	-	-	-	-	100	3	-	-	3
2.	580212	Electrical Machines Modeling and Drives	70	20	10	-	-	-	-	100	3	-	-	3
3.	580213	Microcontroller and Its Applications to Power Converters	70	20	10	-	-	-	-	100	3	-	-	3
4.	#Elective-II	<i>(run through SWAYAM / NPTEL /MOOC)</i>												
	580214	(through SWAYAM / NPTEL /MOOC)	-	-	-	-	-	25	75	100	3	-	-	3
5.	##Open	Category Course -2 (OC-2)												
	800200	Optimal Control	70	20	10	-	-	-	-	100	3	-	-	3
6.	580216	Systems & Drives Lab II	-	-	-	90	60	-	-	150	-	-	4	4
7.	580217	Self Learning / Presentation	<i>(Run through SWAYAM)</i>											
			-	-	-	-	100	-	-	100			2	2
		Total	280	80	40	90	160	25	75	750	15	-	6	21

During labs, students have to perform practical/assignments/ minor projects related to theory subjects/theoretical concepts of respective semester using recent technologies / languages / tools etc.

#Elective-II course will run through SWAYAM / NPTEL /MOOC based learning platform (with credit transfer facility)

##Open Category course will have to be opted from the pool of open courses (offered by other than parent department) and based on interdisciplinary aspects. [This course may be run through SWAYAM/NPTEL based platform (with credit transfer facility) and accordingly, OC-2 pool may be created from the list of SWAYAM/NPTEL courses]

§Self learning / presentation through SWAYAM / NPTEL(Registration in a course will be compulsory for students bus assessment will be based on internal seminar presentation)

Master of Engineering (ISD) (Semester-III)

Scheme of Examination

S. No.	Subject Code	Subject Name	Maximum Marks Allotted							Total Marks	Contact Hours per week			Total Credits
			Theory Slot			Practical Slot		MOOCs			L	T	P	
			End Sem	Mid Sem.	Quiz/Assignment	End Sem. / Practical Viva	Sessional Work/ Practical Record/ Assignment/ Quiz/ Presentation	Assignment	Exam					
1.	580311	Dissertation Part-I (Literature Review/ Problem Foundation/ Synopsis/survey paper, etc.)	-	-	-	150	100			250	-	-	10	10
2.		*MOOC Course (Any one) 1.	-	-	-	-	-	25	75	100	-	-	02	02
		Total	-	-	-	150	100	25	75	350	-	-	12	12

*MOOC course will be treated as the course of open nature and will be decided by concerning department / BoS

Recommended W.E.F JULY 2020

Master of Engineering (ISD) (Semester-IV)
Scheme of Examination

S.No.	Subject Code	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
			Theory Slot			Practical Slot			L	T	P	
			End sem. Exam.	Mid sem.	Quiz/ Assignment	End Sem. /Practical Viva	Sessional Work/ Practical Record/ Assignment/ Quiz/ Presentation					
1.	580411	Dissertation Part-II	-	-	-	300	200	500	-	-	14	14
		Total	-	-	-	300	200	500	-	-	14	14