



# DETAILED TEACHING SCHEME

SCHOOL OF ENGINEERING  
ACADEMIC YEAR – 2022-23  
DEFINITION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hours/week/semester **3. Tutorial (T):** 2 hours/week/semester

PROGRAM: M. TECH – ELECTRICAL POWER SYSTEM  
SEMESTER – I (Batch - 2022-24)

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
RM103	Research Methodology and Intellectual Property Rights	3	0	0	3	3	100	Y	N	-
EPS106	Power System Dynamics	4	2	0	2	5	100	Y	N	-
EPS107	Advanced Power System Operation and Control	3	0	2	2	4	100	Y	Y	-
EPS112	Flexible AC Transmission System	4	0	0	1	4	100	Y	N	-
EPS115	Green Energy Technologies	4	0	0	3	4	100	Y	N	-
EPS213	EHV AC and HVDC Transmission Systems	3	0	0	1	3	100	Y	N	-
EPS71*	Department Elective-I	4	0	0	2	4	100	Y	N	-
	<b>TOTAL</b>	<b>25</b>	<b>2</b>	<b>2</b>	<b>14</b>	<b>27</b>				
	<b>Total Teaching Hours- 29</b>									

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradual Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes    I    N- No

Signature of HOD

Signature of Director



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PROGRAM: M. TECH – ELECTRICAL POWER SYSTEM  
SEMESTER – II (Batch - 2022-24)

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
EPS206	Computer Aided Power System Analysis	3	0	2	3	4	100	Y	Y	-
EPS207	Electrical Power Markets	3	0	0	2	3	100	Y	N	-
EPS208	Power System Stability Analysis	4	2	0	3	5	100	Y	Y	-
EPS209	Energy Management	3	0	0	1	3	100	Y	N	-
EPS211	Advanced Power System Protection	4	0	2	3	5	100	Y	Y	-
EPS215	Power Quality Management	3	0	0	1	3	100	Y	N	-
EPS70*	Department Elective II	4/3	0	0/2	2	4	100	Y	Y/N	-
	<b>TOTAL</b>	<b>24/23</b>	<b>2</b>	<b>4/2</b>	<b>15</b>	<b>27</b>				
	<b>Total Teaching Hours- 30/31*</b>									

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SCHOOL OF ENGINEERING  
ACADEMIC YEAR – 2022-23  
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PROGRAM: M. TECH – ELECTRICAL POWER SYSTEM  
SEMESTER – III (Batch – 2021-23)

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
EPS301	Seminar	0	0	0	03	05	-	Y	Y	Non-Dissertation topic only
EPSPD1	Dissertation Phase-I	0	0	0	14	20	-	Y	Y	-
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>25</b>				
	<b>Total Teaching Hours – 00</b>									

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4. (@) Audit Course / Non-Gradual Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes    I    N- No

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SCHOOL OF ENGINEERING  
 ACADEMIC YEAR – 2022-23  
 DEFINATION OF CREDIT: **1. Lecture (L):** 1 hour/week/semester, **2. Practical (P):** 2 hours/week/semester **3. Tutorial (T):** 2 hours/week/semester

PROGRAM: M. TECH – ELECTRICAL POWER SYSTEM  
 SEMESTER – IV (Batch - 2021-23)

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
EPSDP2	Dissertation Phase – II	0	0	0	14	25	-	Y	Y	-
	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>25</b>				
	<b>Total Teaching Hours – 00</b>									

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2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradual Course
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# SYLLABUS

<b>Course Title</b>	<b>Dissertation Phase – II</b>
<b>Course Code</b>	<b>EPSDP2</b>
<b>Course Credit</b>	Lecture : 0
	Practical : 0
	Tutorial : 0
	Total : 25
<b>Course Learning Outcome</b>	
At the end of the course the students will be able to <ul style="list-style-type: none"><li>• <b>Implement</b> solution of identifies research problem.</li><li>• <b>Analyze</b> outcomes of implementation.</li><li>• <b>Identify</b> future research directions.</li><li>• <b>Develop</b> effective communication skills for oral and written presentation of research work</li></ul>	
<b>Guide line:</b>	
<ul style="list-style-type: none"><li>• Dissertation Phase-II is the continuation of the work done in dissertation phase-I. The student is required to submit thesis as a partial fulfillment of the M. Tech degree. The thesis should consist of detailed study of the problem under taken, concluding remarks and scope of future work, if any.</li><li>• The dissertation report (thesis) is expected to show clarity of thought and expression, critical page appreciation of the existing literature and analytical, computational and experimental aptitude of the student.</li><li>• Publication of at least one research paper is compulsory in reputed conference/journal.</li></ul>	
<b>Students Learning Outcomes:</b>	
At the end of the course the students will be able to <ul style="list-style-type: none"><li>• Make a contribution with a degree of originality and significance to the knowledge in an area of Electrical engineering.</li><li>• Have the skills to execute a research plan and to generate and analyze original research results.</li></ul>	