

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**2 Years M.Tech. (Power Systems (High Voltage Engineering)) Course**  
**Structure : (2020-21)**  
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w.e.f. Academic Year : 2020-2021

<b>M.Tech (PSHVE) I-SEMESTER</b>										
<b>S. No.</b>	<b>Course Code</b>	<b>Course</b>	<b>Categ ory</b>	<b>Periods per week</b>			<b>C</b>	<b>Scheme of Examination Maximum Marks</b>		
				<b>L</b>	<b>T</b>	<b>P</b>		<b>Int</b>	<b>Ext</b>	<b>Total</b>
1	20221101	Generation and Measurement of High Voltages	PC	3	0	0	3	30	70	100
2	20221102	Dielectrics and Insulation Engineering	PC	3	0	0	3	30	70	100
3	20221161A	<b>(PROGRAM ELECTIVE I)</b> Power Systems Reforms	PE	3	0	0	3	30	70	100
	20221161B	High Voltage Direct Current Transmission								
	20221161C	Break down Phenomenon in Electrical Insulation (Gases, Liquids, Solids and Vacuum)								
4	20221162A	<b>(PROGRAM ELECTIVE II)</b> High Voltage Power Apparatus and Diagnostics	PE	3	0	0	3	30	70	100
	20221162B	Collision Phenomena in Plasma Science								
	20221162C	Advanced Electro Magnetic Fields								
5	20221103	Research Methodology	CC	2	0	0	2	30	70	100
6	20221111	Simulation Laboratory – I	LB	0	0	4	2	30	70	100
7	20221112	High Voltage Laboratory	LB	0	0	4	2	30	70	100
8	20221191	<b>Audit Course-I</b>	AC	2	0	0	0	30	70	100
		<b>Total</b>		<b>16</b>	<b>0</b>	<b>8</b>	<b>18</b>	<b>240</b>	<b>560</b>	<b>800</b>

University Nominee  
 (Dr.Y.Srinivasa Kishore Babu)

Subject Expert  
 (Dr.N.Viswanathan)

Subject Expert  
 (Dr.B.Ravi Kumar)

Internal Member  
 (Mr.T.Amar Kiran)

Internal Member  
 (Mrs B Kavya Santhoshi)

Internal Member  
 (Mr V Suresh)

Chairman-BOS  
 (Dr.D.Ravi Kishore)

w.e.f. Academic Year : 2020-2021

**M. Tech. (PSHVE) II-SEMESTER**

S. No.	Course Code	Course	Category	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int	Ext	Total
1	20221201	High Voltage Testing Techniques	PC	3	0	0	3	30	70	100
2	20221202	Surge Phenomenon and Insulation Co-ordination	PC	3	0	0	3	30	70	100
3	<b>(PROGRAM ELECTIVE III)</b>			PE	3	0	3	30	70	100
	20221261A	Partial Discharges in High Voltage Equipment								
	20221261B	Gas Insulated Systems and Substations								
	20221261C	Pulse Power Engineering								
4	<b>(PROGRAM ELECTIVE IV)</b>			PE	3	0	3	30	70	100
	20221262A	Flexible ac transmission Systems								
	20221262B	EHVAC Transmission								
	20221262C	Smart Grid Technologies								
5	20221211	Simulation Laboratory-II	LB	0	0	4	2	30	70	100
6	20221212	Power Systems Laboratory	LB	0	0	4	2	30	70	100
7	20221231	<b>Mini Project</b>	MP	0	0	4	2	100	0	100
8	20221291	<b>Audit Course – II</b>	AC	2	0	0	0	30	70	100
		<b>Total</b>		<b>14</b>	<b>0</b>	<b>12</b>	<b>18</b>	<b>310</b>	<b>490</b>	<b>800</b>

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<b>Audit Course-1 * &amp; 2*</b>	
1. English for Research Paper Writing	4. Constitution Of India
2. Disaster Management	5. Pedagogy Studies
3. Value Education	6. Personality Development through Life Enlightenment Skills



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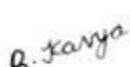
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S. No.	Course Code	Course	Category	M. Tech. (PSHVE) III Semester			C	Scheme of Examination Maximum Marks			
				Periods per week				Int	Ext	Total	
				L	T	P					
		<b>(PROGRAM ELECTIVE V)</b>	PE				3	30	70	100	
	20221361A	Energy Audit Conservation & Management		3	0	0					
	20221361B	Power Quality									
	20221361C	Power System Transients									
2		<b>(OPEN ELECTIVE)</b>	OE	3	0	0	3	30	70	100	
3	20221341	Dissertation – I / Industrial Project	PJ				10	-	-	-	
		(to be continued and evaluated next semester)		-	-	20					
		<b>TOTAL</b>		6	0	20	16	60	140	200	

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**II YEAR II SEMESTER**

<b>M. Tech. (PSHVE) IV SEMESTER</b>										
<b>S. No.</b>	<b>Course Code</b>	<b>Course</b>	<b>Category</b>	<b>Periods per week</b>			<b>C</b>	<b>Scheme of Examination Maximum Marks</b>		
				<b>L</b>	<b>T</b>	<b>P</b>		<b>Int</b>	<b>Ext</b>	<b>Total</b>
1	20221441	Dissertation Phase-II	PJ	-	-	32	<b>16</b>	-	-	-
		<b>Total</b>		-	-	32	<b>16</b>	-	-	-

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**Open elective courses offered by other departments in the college**

S. No.	Course Code	Courses
1	20221362a	Operations Research
2	20221362b	Micro Electro Mechanical Systems
3	20221362c	Composite Materials, Cost Management of Engineering Projects
4	20221362d	Machine Learning
5	20221362e	Cyber Security
6	20221362f	Internet of Things and Applications
7	20221362g	Real time operating systems

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