

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
 2 Years M.Tech. (Power Systems (High Voltage Engineering)) Course
 Structure : (2020-21)

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

M.Tech (PSHVE) I-SEMESTER										
S. No.	Course Code	Course	Category	Periods per week			C	Scheme of Examination Maximum Marks		
				L	T	P		Int	Ext	Total
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	(PROGRAM ELECTIVE I) 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	(PROGRAM ELECTIVE II) 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	Audit Course-I	AC	2	0	0	0	30	70	100
		Total		16	0	8	18	240	560	800



 University Nominee
 (Dr.Y.Srinivasa Kishore Babu)



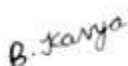
 Subject Expert
 (Dr.N.Viswanathan)



 Subject Expert
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 (Mr.T.Amar Kiran)



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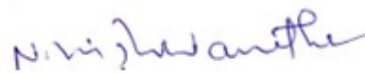
 Chairman-BOS
 (Dr.D.Ravi Kishore)

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		(PROGRAM ELECTIVE III)	PE							
	20221261A	Partial Discharges in High Voltage Equipment					30	70	100	
	20221261B	Gas Insulated Systems and Substations		3	0	0	3			
	20221261C	Pulse Power Engineering								
4		(PROGRAM ELECTIVE IV)	PE							
	20221262A	Flexible ac transmission Systems					30	70	100	
	20221262B	EHVAC Transmission		3	0	0	3			
	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	Mini Project	MP	0	0	4	2	100	0	100
8	20221291	Audit Course – II	AC	2	0	0	0	30	70	100
		Total		14	0	12	18	310	490	800



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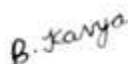
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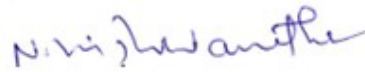
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Audit Course-1 * & 2*	
1. English for Research Paper Writing	4. Constitution Of India
2. Disaster Management	5. Pedagogy Studies
3. Value Education	6. Personality Development through Life Enlightenment Skills



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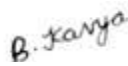
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w.e.f. Academic Year : 2020-2021

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



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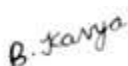
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II YEAR II SEMESTER

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



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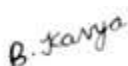
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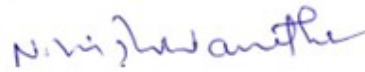
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Open elective courses offered by other departments in the college

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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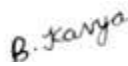
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