# ODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

Approved by AICTE, Accredited by NBA & NAAC 'A' Grade, Recognized under 2(f) and 12(b) of UGC, Permanently Affiliated to JNTUK, Kakinada.

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING 2 Years M.Tech. (Power Systems (High Voltage Engineering)) Course Structure : (2017-18)

w.e.f. Academic Year: 2017-2018

#### I YEAR

#### I SEMESTER

						ISEMESTER							
S. No.	Subject codes		Pe	Periods per week			E	Scheme of Examination					
		Subject	L	T	P	C	Max Int.	Ext.	Marks Total				
* : .			8										
1		Generation and Measurements of High Voltages	3	1	14	3	40	60	100				
2		Dielectrics and Insulation Engineering	3	1		3	40	60	100				
3		High Voltage Direct Current Transmission	3	1		3	40	60	100				
4		Power System Operation and Control	3	1	-	3	40	60	100				
5		(Elective-I) Break Down Phenomenon in Electrical Insulation (Gases, Liquids, Solids And Vacuum)	3	1		3	40	60	100				
		Smart Grid											
		Advanced Digital Signal Processing											
		Artificial Intelligence Techniques	H.										
6	(Elective-II) High Voltage Power Apparatus and Diagnostics	3			3	40	60	100					
		Collision Phenomena in Plasma Science				3							
		Advanced Electro Magnetic Fields											
7		High Voltage Laboratory			3	2	40	60	100				
		Total	18	6	3	20	280	420	700				

University Nominee

Internal Member

(Mr.T.AmarKiran)

(Dr.Y.Srinivasa Kishore Babu)

10. mishoranathan Subject Expert (Dr.N.Viswanathan)

Internal Member (Ms.P.SugunaRatnamala)

Subject Expert (Dr.B.Ravi Kumar)

Internal Member (Mr.N.Vijaya Kumar)

Chairman-BOS (Dr.D.Ravi Kishore)

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#### I YEAR

### **II SEMESTER**

S. No.			P	eriod	s per	11,	Scheme of				
	Subject codes	Subject	week			<b>C</b>	Examination				
			L	T	, P	21	Int.	Ext.	Tota		
1	a e a a a a	High Voltage Testing Techniques	3	1		3	40	60	100		
2		High Voltage Alternating Current Transmission	3	1	1	3	40	60	100		
3		Surge Phenomenon and Insulation Co- ordination	3	1	-	3	40	60	100		
4		Advanced Power System Protection	3	1	121	3	40	60	100		
		(ELECTIVE-III) Partial Discharges in High Voltage Equipment									
5		High Voltage Systems Using Electromagnetic Transients Program Analysis	3	1		3	40	60	100		
		Pulse Power Engineering									
6		(ELECTIVE-IV) Reactive Power Compensation and Management	3	1			10	60	100		
-		Power System Deregulation			H	3	40				
		Flexible Alternating Current Transmission Systems									
7		Simulation Laboratory			3	2	40	60	100		
2	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total	18	6	3	20	280	420	700		

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II YEAR

**I SEMESTER** 

S. No.	Subject codes	Subject	Periods per week				Scheme of Examination		
			L	T	P	C	Maximum Marks  Int. Ext. Total		
1		Comprehensive viva-voce		-	14-1	2			
.1		Seminar - I				2		7-1	
2		Project Work - I	-1	-	747	16	1.7	11-1	71
		Total	-	-	Ė	20	-		

II YEAR

II SEMESTER

S.	Subject codes	Subject	Pe	Periods per week			Scheme of Examination		
No.			L	Т	P	С		imum l Ext.	
1		Seminar - II		-	111	2			
2	i e e	Project work - II	1			18			_
	×**,	Total	12	-	11	20		-	i je

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