



ODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

GR.-17

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

S. No.	Subject codes	Subject	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1		Generation and Measurements of High Voltages	3	1	-	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							
6		(Elective-II) High Voltage Power Apparatus and Diagnostics	3	1	-	3	40	60	100
		Collision Phenomena in Plasma Science							
		Advanced Electro Magnetic Fields							
7		High Voltage Laboratory	--	--	3	2	40	60	100
		Total	18	6	3	20	280	420	700

University Nominee
(Dr.Y.Srinivasa Kishore Babu)

Subject Expert
(Dr.N.Viswanathan)

Subject Expert
(Dr.B.Ravi Kumar)

Internal Member
(Mr.T.AmarKiran)

Internal Member
(Ms.P.SugunaRatnamala)

Internal Member
(Mr.N.Vijaya Kumar)

Chairman-BOS
(Dr.D.Ravi Kishore)

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II SEMESTER

S. No.	Subject codes	Subject	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1		High Voltage Testing Techniques	3	1	-	3	40	60	100
2		High Voltage Alternating Current Transmission	3	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	-	3	40	60	100
5		(ELECTIVE-III) Partial Discharges in High Voltage Equipment							
		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							
		Power System Deregulation	3	1	-	3	40	60	100
		Flexible Alternating Current Transmission Systems							
7		Simulation Laboratory	--	--	3	2	40	60	100
		Total	18	6	3	20	280	420	700

Y.S.K
University Nominee
(Dr.Y.Srinivasa Kishore Babu)

T.A.K
Internal Member
(Mr.T.AmarKiran)

N.Vishwanathan
Subject Expert
(Dr.N.Viswanathan)

P.SugunaRatnamala
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N.Vijaya
Internal Member
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D.Ravi
Chairman-BOS
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II YEAR
I SEMESTER

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

II YEAR
II SEMESTER

S. No.	Subject codes	Subject	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1		Seminar - II	-	-	-	2	-	-	-
2		Project work - II	-	-	-	18	-	-	-
		Total	-	-	-	20	-	-	-

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