



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

4 Years B.Tech. (Electrical & Electronics Engineering) Course Structure : (2017-18)

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

I YEAR

I SEMESTER

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination		
			L	T	P		Maximum Marks		
						Int.	Ext.	Total	
1.		English – I	3	0	0	3	40	60	100
2.		Mathematics-I	3	0	0	3	40	60	100
3.		Computer Programming	3	1	0	3	40	60	100
4.		Engineering Mechanics	3	1	0	3	40	60	100
5.		Mathematics-II	3	0	0	3	40	60	100
6.		Professional Ethics & Human Values	0	0	0	1	40	60	100
7.		English Communication Skills Lab I	0	0	3	2	50	50	100
8.		Computer Programming Lab	0	0	3	2	50	50	100
9.		Engineering Workshop & IT Workshop	0	0	3	2	50	50	100
Total			15	2	9	22	390	510	900

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
(Ms.P.Suguna Ratnamala)

Internal Member
(Mr.N.Vijaya Kumar)

Chairman-BOS
(Dr.D.Ravi Kishore)



GODAVARI 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.

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I YEAR

II SEMESTER

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination		
			L	T	P		Int.	Ext.	Total
1.		English-II	3	0	0	3	40	60	100
2.		Engineering Physics	3	1	0	3	40	60	100
3.		Engineering Drawing	0	0	3	3	40	60	100
4.		Environmental Studies	3	0	0	3	40	60	100
5.		Data Structures Through C	3	1	0	3	40	60	100
6.		Engineering Chemistry	3	0	0	3	40	60	100
7.		English Communication Skills Lab II	0	0	3	2	50	50	100
8.		Engineering Physics Lab	0	0	3	2	50	50	100
9.		Data Structures Through CLab	0	0	3	2	50	50	100
Total			15	2	12	24	390	510	900

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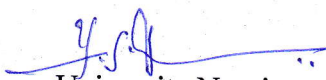
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II YEAR


I SEMESTER

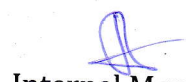
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.		Electrical Circuits Analysis – I	3	1	0	3	40	60	100
2.		Electro Magnetic Field	3	0	0	3	40	60	100
3.		Electrical Machines – I	3	1	0	3	40	60	100
4.		Mathematics III	3	0	0	3	40	60	100
5.		Fluid Mechanics & Hydraulic Machinery	3	0	0	3	40	60	100
6.		Electronic Devices & circuits	3	0	0	3	40	60	100
7.		Soft Skills – I	1	0	2	1	40	60	100
8.		Electronic Devices & Circuits Lab	0	0	3	2	50	50	100
9.		Fluid Mechanics & Hydraulic Machines Lab	0	0	3	2	50	50	100
Total			19	2	8	23	380	520	900

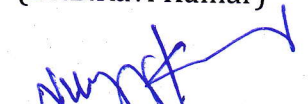

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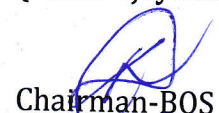

Subject Expert
(Dr.N.Viswanathan) 8/3/18


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II Year

II Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination		
			L	T	P		Int.	Ext.	Total
1.		Electrical Circuit analysis – II	3	1	0	3	40	60	100
2.		Power Systems – I	3	0	0	3	40	60	100
3.		Electrical Machines – II (Through MOOCS)	3	1	0	3	40	60	100
4.		Electrical Measurements	3	0	0	3	40	60	100
5.		Switching Theory and Logic Design	3	0	0	3	40	60	100
6.		Pulse & Digital Circuits	3	0	0	3	40	60	100
7.		Electrical Machines – I Lab	0	0	3	2	50	50	100
8.		Electrical Circuits Lab	0	0	3	2	50	50	100
Total			18	2	6	22	340	460	800

Mini Project-I/Summer Internship / Training - To be done during summer vacation after II-II semester

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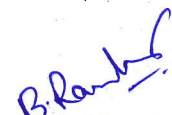
III Year


I Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.		Managerial Economics and Financial Analysis	3	0	0	3	40	60	100
2.		Control Systems	3	1	0	3	40	60	100
3.		Power Systems-II	3	1	0	3	40	60	100
4.		Special Electrical Machines	3	0	0	3	40	60	100
5.		Power Electronics	3	0	0	3	40	60	100
6.		Linear & Digital IC Applications	3	0	0	3	40	60	100
7.		Soft Skills - II	1	0	2	1	40	60	100
8.		Electrical Machines-II Lab	0	0	3	2	50	50	100
9.		Electrical Measurements Lab	0	0	3	2	50	50	100
10.		Mini Project - I	0	0	3	2	100	-	100
Total			19	2	11	25	480	520	1000



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III Year

II Semester

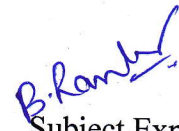
S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.		Switch-gear and Protection	3	0	0	3	40	60	100
2.		Power System Analysis	3	1	0	3	40	60	100
3.		OPEN ELECTIVE	3	0	0	3	40	60	100
4.		Power Semiconductor Drives	3	1	0	3	40	60	100
5.		Signals and systems	3	0	0	3	40	60	100
6.		Microprocessors & Micro-controllers and its Applications	3	0	0	3	40	60	100
7.		Power Electronics Lab	0	0	3	2	50	50	100
8.		Control Systems Lab	0	0	3	2	50	50	100
9.		IPR & Patents	2	0	0	1	50	50	100
Total			20	2	6	23	390	510	900



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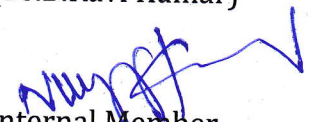
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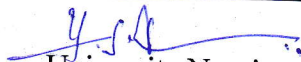


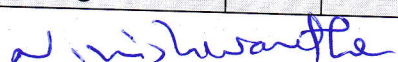
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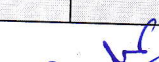
IV Year


I Semester


S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.		Utilization of Electrical Energy	3	0	0	3	40	60	100
2.		Renewable Energy Sources and Systems	3	0	0	3	40	60	100
3.		Power System Operation & Control	3	1	0	3	40	60	100
4.		Elective-I	3	0	0	3	40	60	100
		High Voltage Engineering							
		Electronic Instrumentation and Automation System							
		HVDC Transmission							
		Electrical Distribution Systems							
5.		Elective - II	3	0	0	3	40	60	100
		Electrical Machine Modeling & Analysis							
		Switching Mode Power Converters							
		Optimization Techniques							
		EHV Transmission							
6.		Elective - III	3	0	0	3	40	60	100
		Advanced Control Systems.							
		Flexible Alternating Current							



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		Transmission systems							
		Power Quality							
		Smart Grid							
7.		Power Systems Lab	0	0	3	2	50	50	100
8.		Microprocessors & Micro- Controllers and its Applications Lab	0	0	3	2	50	50	100
9.		Electrical Simulation Lab	0	0	3	2	50	50	100
10.		Mini Project II	0	0	3	2	100	-	100
Total			18	1	12	26	490	510	1000


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

IV Year

II Semester

S. No.	Subject Code	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
			L	T	P		Int.	Ext.	Total
1.		Energy Audit, Conservation & Management	3	0	0	3	40	60	100
2.		Elective – IV	3	0	0	3	40	60	100
		VLSI Design							
		Embedded Systems							
		Digital Control Systems							
		PLC and its Applications							
		OOPS through JAVA							
		DBMS							
	UNIX and Shell Programming								
	Neural Fuzzy Systems								
3.		Project Work	0	0	3	9	60	140	200
Total			6	0	3	15	140	260	400

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8/3/18

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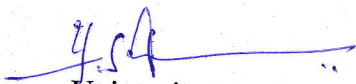
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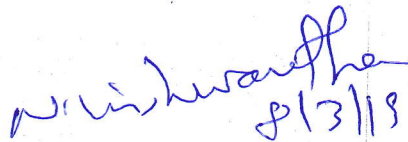
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OPEN ELECTIVES

S.NO	Course code	Title of the course	L-T-P	Credits	Pre-Requisite	Offered By
1		Building Technology	3-0-0	3	NIL	CE
2		Environmental Pollution & Control	3-0-0	3	NIL	MIN
3		Social Networks	3-0-0	3	NIL	CSE
4		Cyber Security	3-0-0	3	NIL	CSE
5		Basic Automobile Engineering	3-0-0	3	NIL	AME
6		Hybrid Vehicles	3-0-0	3	NIL	AME
7		Thermal Energy	3-0-0	3	NIL	MECH
8		Robotics	3-0-0	3	NIL	MECH
9		Principles of Management	3-0-0	3	NIL	DMS
10		Internet of Things (IOT)	3-0-0	3	NIL	ECE



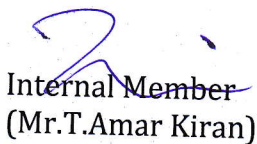
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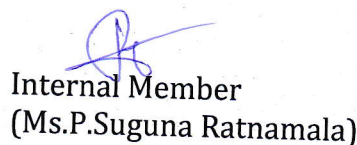
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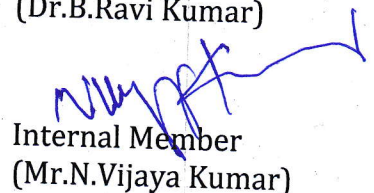
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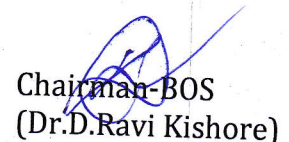
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