ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, RAJAMPET (AN AUTONOMOUS INSTITUTION)

Thallapaka Panchayat, New Boyanapalli, Rajampet, Kadapa Dist., A.P. – 516126 (Approved by AICTE, New Delhi & Affiliated to Jawaharlal Nehru Technological University Anantapur, Anantapur)

Department of Electrical and Electronics Engineering

Minutes of Meeting of the Board of Studies of EEE Department held on 22/06/2014

Members Present:

Dr. M. Padma Lalitha

Dr. V.Madhusudhan

Mr. T.Murali

Mr. O.Hemakesavulu

Mr. P.Bhaskara Prasad

BOS-04-01: Ratification of Earlier minutes of BOS meeting held on12-05-2013.

BOS-04-02: The course structure and syllabi are finalized for UG as enclosed in Annexure-I.

BOS-04-03: The course structure and syllabi are finalized for PG as enclosed in Annexure-II.

BOS-04-04: Resolved to instruct the faculty members to identify the industries to be visited when dealing their subject.

BOS-04-05: Resolved to send the recommendations for the approval of the Academic Council.

Dr.M. PADMA LALITHA
Chairman

ANNEXURE-I

Curriculum for the Programmes under Autonomous Scheme					
Regulation	R 2014				
Department	Department of Electrical and Electronics Engineering				
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering				

I Year B.Tech

Subject Code	Subject Name	Hours/ Week				Maximum marks			
		L	Т	Р	C	Internal	External	Total	
1GC11	English	2	0	0	4	30	70	100	
1GC12	Engineering Physics	2	0	0	4	30	70	100	
1GC13	Engineering Chemistry	2	0	0	4	30	70	100	
1GC14	Mathematics – I	3	1	0	6	30	70	100	
1G311	Electronic Devices and circuits	3	1	0	6	30	70	100	
1G112	C Programming and Introduction to Data Structures	3	1	0	6	30	70	100	
1G513	Engineering Drawing	1	0	3	6	30	70	100	
1G312	Electronic Devices and circuits Lab	0	0	3	4	30	70	100	
1G114	C Programming and Data Structures Lab	0	0	3	4	30	70	100	
1GC16	Engineering Physics and Chemistry Lab	0	0	3	4	30	70	100	
1GC17	English Language and Communication Skills Lab	0	0	3	4	30	70	100	
1G411	Engineering and IT Workshop	0	0	3	4	30	70	100	
Total		16	3	18	56	360	840	1200	

Curriculum for the Programmes under Autonomous Scheme						
Regulation	R 2014					
Department	Department of Electrical and Electronics Engineering					
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering					

II Year B.Tech I Semester

Subject	Subject Name	Hours/ Week				Maximum marks			
Code		L	Т	Р	С	Internal	External	Total	
1GC32	Engineering Mathematics	4	0	0	4	30	70	100	
1G231	Switching Theory and Logic Design	4	1	0	4	30	70	100	
1G232	Electrical Machines-I	4	1	0	4	30	70	100	
1G233	Electrical Circuits-I	4	1	0	4	30	70	100	
1G536	Fluid Mechanics and Hydraulic Machines	4	1	0	4	30	70	100	
1G234	Electromagnetic Fields	4	1	0	4	30	70	100	
1G537	Fluid Mechanics and Hydraulic Machines Lab	0	0	3	2	30	70	100	
1G238	Electrical Machines-I Lab	0	0	3	2	30	70	100	
1G23B	Seminar - I	0	0	2	2	100	00	100	
	Total		5	8	30	340	560	900	

Curriculum for the Programmes under Autonomous Scheme					
Regulation	R 2014				
Department	Department of Electrical and Electronics Engineering				
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering				

II Year B.Tech II Semester

Subject	Subject Name	Hours/ Week			С	Maximum marks		
Code	Subject Name	L	Т	Р		Internal	External	Total
1G241	Electrical Machines-II	4	1	0	4	30	70	100
1G242	Electrical Circuits-II	4	1	0	4	30	70	100
1G343	Pulse and Digital Circuits	4	1	0	4	30	70	100
1G243	Generation of Electric Power	4	1	0	4	30	70	100
1G244	Linear Control Systems	4	1	0	4	30	70	100
1GC41	Mathematics – III	4	0	0	4	30	70	100
1G247	Electrical Circuits and Simulation Lab	0	0	3	2	30	70	100
	Advanced English Communication Skills Lab	0	0	3	2	30	70	100
1GC44	Soft Skills – I	2	0	0	2	30	70	100
	Total			6	30	270	630	900

Curriculum for the Programmes under Autonomous Scheme						
Regulation	R 2014					
Department	Department of Electrical and Electronics Engineering					
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering					

III Year B.Tech I Semester

Subject	Subject Name	Hours/ Week			С	Maximum marks			
Code	Subject Name		Т	Р	C	Internal	External	Total	
1G356	Linear and Digital Integrated Circuits Applications	4	1	0	4	30	70	100	
1G251	Electrical Machines-III	4	1	0	4	30	70	100	
1G252	Transmission of Electric Power	4	1	0	4	30	70	100	
1G253	Power Electronics	4	1	0	4	30	70	100	
1G254	Electrical and Electronics Measurements	4	1	0	4	30	70	100	
1GC52	Environmental Science	4	0	0	4	30	70	100	
1G255	Electrical Machines-II Lab	0	0	3	2	30	70	100	
1G256	Control systems Lab	0	0	3	2	30	70	100	
1G257	Seminar - II	0	0	2	2	100	00	100	
	Total			8	30	340	560	900	

Curriculum for the Programmes under Autonomous Scheme						
Regulation	R 2014					
Department	Department of Electrical and Electronics Engineering					
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering					

III Year B.Tech II Semester

Subject	Subject Name	Hours/ Week			С	Maximum marks		
Code	Subject Name	L	Т	Р		Internal	External	Total
1GA61	Managerial Economics and Financial Analysis	4	0	0	4	30	70	100
1G261	Power System Analysis	4	1	0	4	30	70	100
1G262	Utilization of Electrical Energy	4	1	0	4	30	70	100
1G366	Microprocessors and Microcontrollers	4	1	0	4	30	70	100
1G468	Computer System Architecture	4	1	0	4	30	70	100
1G263	Power System Operation and Control	4	1	0	4	30	70	100
1G264	Electrical Measurements Lab	0	0	3	2	30	70	100
1G265	Power Electronics and Simulation Lab	0	0	3	2	30	70	100
1GC62	Soft Skills – II	2	0	0	2	30	70	100
	Total			6	30	270	630	900

Curriculum for the Programmes under Autonomous Scheme						
Regulation	R 2014					
Department	Department of Electrical and Electronics Engineering					
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering					

IV Year B.Tech I Semester

Subject Code	Subject Name	Hours/ Wee				Maximum ma	marks	
	Subject Name	L	Т	Р	С	Internal	External	Total
1GA71	Management Science	4	1	0	4	30	70	100
1G271	Fundamentals of HVDC & FACTS Devices	4	1	0	4	30	70	100
1G272	Switch Gear and Protection	4	1	0	4	30	70	100
1G372	Digital Signal Processing	4	1	0	4	30	70	100
		E	lecti	ve-I				
1G273	Instrumentation							
1G274	High Voltage Engineering	4	1	0	4	30	70	100
1G275	Renewable Energy Sources							
		E	lectiv	/e-II				
1G47C	Soft Computing Techniques							
1G276	Reliability Engineering and Applications To Power Systems	4	1	0	4	30	70	100
1G57E	Optimization Techniques							
1G37B	Microprocessors and Microcontrollers Lab	0	0	3	2	30	70	100
1G277	Power Systems Lab	0	0	3	2	30	70	100
1G278	Comprehensive Electrical and Electronics Engineering	0	0	2	2	100	00	100
	Total	24	6	8	30	340	560	900

Curriculum for the Programmes under Autonomous Scheme					
Regulation	R 2014				
Department	Department of Electrical and Electronics Engineering				
Programme Code & Name	G2, B.Tech-Electrical & Electronics Engineering				

IV Year B.Tech II Semester

Subject Code	Cubicat Nama	Hours/ Week			С	Maximum marks			
	Subject Name	L	Т	Р	C	Internal	External	Total	
1G281	Power Semiconductor Drives	4	4 1 0		4	30	70	100	
1G282	Distribution of Electrical Power		1	0	4	30	70	100	
		I	Electi	ve-III					
1G283	Modern Control Theory			0		30	70	100	
1G284	Special Electrical Machines	4	1		4				
1G285	Principles of Power Quality								
		ı	Electi	ve-IV					
1G389	Embedded Systems								
1G286	Design of Electrical Systems	4	1	0	4	30	70	100	
1G287	Energy Auditing and Demand side Management								
1G288	Seminar - III	0	0	2	2	100	00	100	
1G289	Project work		0	12	12	30	70	100	
	Total				30	250	350	600	

ANNEXURE-II

		Curriculum for the Prog	rams un	ider Aut	tonomo	ous Schem	ne				
Regulation											
Department Department of Electrical				Il And Electronics Engineering							
Programme	e Code & Name	M.Tech-Electrical Power	Engine	ering							
			Semeste	er I							
CNO	C N		Hours/ Week Credit			Credit	Maximum marks				
S.NO Course Nan		ne	L	Т	Р	С	Internal	External	Total		
	THEORY										
1	Advanced F	Advanced Power System Analysis			0	4	40	60	100		
2		Power System Dynamics & Stability EHV AC/DC Transmission			0	4	40	60	100		
3					0	4	40	60	100		
	Reactive Po	ower Compensation &		_					100		
4	Manageme	-	4	0	0	4	40	60	100		
5	Elective-I			I							
i)		ues in Power Systems									
ii)	Embedded		4	0	0	4	40	60	100		
iii)	Power Qua	•	1			"					
6	Elective-II	· <i>y</i>		l	1	1		<u> </u>	1		
		essors & Micro									
i)	Controllers						40	60			
ii)		ntrol Theory	4		0	4			100		
,		<u> </u>		0							
iii)		liting , Conservation &									
		Management									
7	SEMINAR-I		1	0	0	2	40	60	100		
8		&Power Systems Lab	0	0	3	2	40	60	100		
	Tota		25	0	3	28		800			
			emeste			T	T = -				
S.NO	Course Nan	ne –	-	/ Week	1_	Credit	Maximun		1		
			L	T	Р	С	Internal	External	Total		
	THEORY										
1	<u>-</u>	& Control Of Power	4	0	0	4	40	60	100		
•	System		'			'	10		100		
2	Flexible AC	Transmission System	4	0	0	4	40	60	100		
3	Advanced F	Power System protection	4	0	0	4	40	60	100		
	Distributed	Generation & Micro									
4	Grid	Conclution & Million	4	0	0	4	40	60	100		
5	Elective-III					1		1			
i)		em Reliability									
ii)		wer Electronics	4	0	0	4	40	60	100		
iii)	Special Mag		"	J	"			00			
6	Elective-IV	orini (c)		<u> </u>	<u> </u>	1		1	1		
<u> </u>		ower Distribution &									
i)	Automation										
ii)			4	0	0	4	40	60	100		
iii)		Transients In Power Systems Restructured Power System									
	SEMINAR-II			0	0	2	40	60	100		
7			1	l U	U						
7 Q			0	0	2	2	<i>1</i> 0	1.60	100		
8		em Simulation Lab	0	0	3	2	40	60	100		

Curriculum for the Programmes under Autonomous Scheme							
Regulation R 2014							
Department Department of Electrical		And Electronics Engineering					
Programme Co	de & Name	M.Tech-Electrical Power	Engineering				
	Semester III & SEMESTER IV						
Sl.no	Course Name		Credits	Maximum marks			
Si.iio Course Name		ile		Internal	External	Total	
1 PROJECT WORK		16	G	RADE (A/	B/C)		
	TOT	AL	16		GRADE		

R 2014 Department of Electrical de & Name M.Tech-Electrical Power Course Name THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	System		P 0	Credit C	Maximum Internal	n marks External	Total
Course Name THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	Hours. L 4 4	/ Week T 0 0	P 0	Credit C			Total
Course Name THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	Hours. L 4 4	/ Week T 0	P 0	С			Total
THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4 4 4	T 0 0	P 0	С			Total
THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4 4 4	T 0 0	P 0	С			Total
THEORY Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4	0 0	0		Internal	External	Total
Advanced Power System Analysis Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4	0		4			
Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4	0		4			
Power System Control & Stability EHV AC/DC Transmission Reactive Power Compensation & Management Elective-I	4		_	4	40	60	100
Reactive Power Compensation & Management Elective-I		0	0	4	40	60	100
Management Elective-I	4	"	0	4	40	60	100
	'	0	0	4	40	60	100
		1	1	·			<u>,L</u>
Soft Computing Techniques	4	0					
Embedded Systems	4		0	4	40	60	100
Power Quality							
Elective-II					_		
Advanced Digital Signal Processing	1	0	0	4	40	60	100
Modern control Theory							
	'						100
		_					
			_				100
Machines &Power Systems Lab					40		100
	25	0	3	28		800	
	1			T	T		
Course Name							T
TUEODY	L	l	Р	C	Internal	External	Total
System	4	0	0	4	40	60	100
	4	0	0	4			100
							100
	4	0	0	4	40	60	100
		1	1	T	1		т —
<u> </u>	.		0	4	40		100
	4	0				60	100
<u> </u>					<u> </u>	<u> </u>	
						1	T
	1	0		1	40	40	100
-	- 4	U	0	4	40	00	100
	1	0	0	2	40	60	100
							100
rowei system simulation Lab	U	U	J	<u> </u>	40	00	100
				1	1	1	
	Advanced Digital Signal Processing Modern control Theory Energy Auditing, Conservation & Management SEMINAR-I Machines & Power Systems Lab Course Name THEORY Operation & Control Of Power	Advanced Digital Signal Processing Modern control Theory Energy Auditing , Conservation & Management SEMINAR-I Machines & Power Systems Lab Course Name THEORY Operation & Control Of Power System Flexible AC Transmission System Advanced Power System protection Energy Conversion Systems Elective-III Power System Dynamics Elective-IV Distribution Automation Transients In Power Systems Restructured Power System SEMINAR-II 1	Advanced Digital Signal Processing Modern control Theory	Advanced Digital Signal Processing Modern control Theory	Advanced Digital Signal Processing Modern control Theory	Advanced Digital Signal Processing Modern control Theory Energy Auditing , Conservation & Management SEMINAR-I SEMINAR-I Machines & Power Systems Lab Course Name Hours/ Week	Advanced Digital Signal Processing Modern control Theory

Curriculum for the Programmes under Autonomous Scheme							
Regulation		R 2014					
Department		Department of Electrical And Electronics Engineering					
Programme Co	de & Name	M.Tech-Electrical Power	Electrical Power Systems				
Semester III & SEMESTER IV							
Sl.no	Course Name		Credits	Maximum marks			
31.110				Internal	External	Total	
1	PROJECT WORK		16	GRADE (A/		B/C)	
TOTAL		16		GRADE			