

Bachelor of Electrical Engineering (EEUG) for 2014 & 2015 Batch

Prog	S. No.	Sem	Course Code	Course	L	T	P	CRCRed it	Total Credit	Cumm Credit
EEUG	1	3	3CH104	Green Technology (Environmental Science)	3	0	0	3		
EEUG	2	3	3EC105	Electromagnetic Field Theory	3	0	0	3		
EEUG	5	3	3EE103	Electrical Machine -I	3	0	0	3		
EEUG	6	3	3EE104	Electrical Machine –I Lab	0	0	3	1		
EEUG	7	3	3EE105	Network Analysis and Synthesis	3	1	0	4		
EEUG	8	3	3MA105	Transform Calculus	3	0	0	3		
EEUG	3	3	3EC107	Semiconductor Devices	3	0	0	3		
EEUG	4	3	3EC108	Semiconductor Devices Lab	0	0	3	1		
EEUG	9	3		Semester Total	15	3	6	21	21	66
EEUG										
EEUG	1	4	4CH105	Bio- Science	3	0	0	3		
EEUG	2	4	4EC103	Digital Logic and Circuits	3	1	0	4		
EEUG	3	4	4EC111	Analog Electronics	3	1	0	4		
EEUG	4	4	4EC112	Digital and Analog Electronics Lab	0	0	3	1		
EEUG	5	4	4EE110	Electrical Machine -II	3	1	0	4		
EEUG	6	4	4EE111	Electrical Machine -II Lab	0	0	3	1		
EEUG	7	4	4MA108	Numerical Methods for Engineers	3	0	0	3		
EEUG	8	4	4GE105	EAA - I NSS				0		
EEUG	9	4		Semester Total	15	3	6	20	20	86
EEUG										
EEUG	1	5	5EC109	Signal and System Analysis	3	1	0	4		
EEUG	2	5	5EC156	Communication System	3	1	0	4		
EEUG	3	5	5EE112	Electrical Measurement and Instruments	3	0	0	3		
EEUG	4	5	5EE113	Electrical Measurement and Instruments Lab	0	0	3	1		
EEUG	5	5	5EE114	Control Systems	3	1	0	4		
EEUG	6	5	5EE115	Control Systems Lab	0	0	3	1		
EEUG	7	5	5EE118	Power System - I	3	1	0	4		
EEUG	8	5		Semester Total	15	3	12	21	21	107

EEUG										
EEUG	1	6	6EE116	Power Electronics	3	0	0	3		
EEUG	2	6	6EE117	Power Electronics Lab	0	0	3	1		
EEUG	3	6	6EE119	Power System-II	3	1	0	4		
EEUG	4	6	6EE125	Microprocessor and Microcontrollers	3	1	0	4		
EEUG	5	6	6EE126	Microprocessor and Microcontrollers Lab	0	0	3	1		
EEUG	6	6	6EE191	Minor Project-I	0	0	3	1		
EEUG	7	6	6EE1XX	Departmental Elective-I	3	0	0	3		
EEUG	8	6	6EE1XX	Departmental Elective-II	3	0	0	3		
EEUG	9	6	6GE103	Industrial Interaction and Soft Skill Development	0	0	3	0		
EEUG	10	6	6GE106	EAA-II NSS				0		
EEUG	11	6		Semester Total	15	3	9	20	20	127
EEUG										
EEUG	1	7	7EE121	Power System Protection	3	1	0	4		
EEUG	2	7	7EE122	Power System Protection Lab	0	0	3	1		
EEUG	3	7	7EE1XX	Departmental Elective-III	3	0	0	3		
EEUG	4	7	7EE1XX	Departmental Elective-IV	3	0	0	3		
EEUG	5	7	7XX1XX	Engineering-I/HSS/Science/(Elective)	3	0	0	3		
EEUG	6	7	7XX1XX	Engineering-II/HSS/Science/(Elective)	3	0	0	3		
EEUG	7	7	7EE193	Minor Project-II	0	0	6	2		
EEUG	8	7	7EE192	Industrial Training (4 to 6 Weeks after 6 th Sem.)	0	0	3	1		
EEUG	9	7		Semester Total				20	20	147
EEUG	1	8	8EE195	Major Project	0	0	60	20		
EEUG	2	8	8EE196	Comprehensive Viva	0	0	6	2		
EEUG				Semester Total				22	22	169
EEUG										
EEUG				Departmental Electives						
EEUG	1	EL-1	CS155	Computer Architecture	3	0	0	3	TH	
EEUG	2	EL-1	EE151	Utilization & Traction	3	0	0	3	TH	
EEUG	3	EL-1	EE152	Electrical Design, Estimation & Costing	3	0	0	3	TH	

EEUG	4	EL-1	EE153	Special Electrical Machines	3	0	0	3	TH		
EEUG	5	EL-1	ME1xx	Energy Conversion	3	0	0	3	TH		
EEUG	6	EL-1	PH103	Materials Science & Technology	3	0	0	3	TH		
EEUG	7	EL-2	EC119	Digital Communication	3	0	0	3	TH		
EEUG	8	EL-2	EE154	Electrical Machines Design	3	0	0	3	TH		
EEUG	9	EL-2	EE155	Industrial Drives and Control	3	0	0	3			
EEUG	10	EL-2	EE156	Power Plant Engineering	3	0	0	3	TH		
EEUG	11	EL-2	EE157	Modern Control Theory	3	0	0	3	TH		
EEUG	12	EL-3	EE158	Power Systems Dynamics & Reliability	3	0	0	3	TH		
EEUG	13	EL-3	EE159	Computer Aided Power System Design	3	0	0	3	TH		
EEUG	14	EL-3	EE160	Power System Design	3	0	0	3	TH		
EEUG	15	EL-3	EE161	Microprocessor & Microcontrollers	3	0	0	3	TH		
EEUG	16	EL-3	EE162	Microcontrollers & Its Applications	3	0	0	3	TH		
EEUG	17	EL-3	EE163	Digital Control System	3	0	0	3	TH		
EEUG	18	EL-3	EE164	Advance Control Theory	3	0	0	3	TH		
EEUG	19	EI-4	CS158	Image Processing	3	0	0	3	TH		
EEUG	20	EI-4	EC117	Digital Signal Processing	3	0	0	3	TH		
EEUG	21	EI-4	EE165	Modern Power Operation & Control	3	0	0	3	TH		
EEUG	22	EI-4	EE166	HVDC Transmission	3	0	0	3	TH		
EEUG	23	EI-4	EE167	Flexible AC Transmission Systems (FACTS)	3	0	0	3	TH		
EEUG	24	EI-4	EE168	PLC and SCADA	3	0	0	3	TH		
EEUG	25	EI-4	EE169	SCADA and Energy Management Systems	3	0	0	3	TH		
EEUG	26	EI-4	EE170	Advance Instrumentation	3	0	0	3	TH		
EEUG	27	EI-4	EE171	Process Control	3	0	0	3	TH		
EEUG	28	EI-4	EE172	Process Control & Instrumentation	3	0	0	3	TH		
EEUG	29	EI-4	EE173	Performance Specifications & Control System Design	3	0	0	3	TH		
EEUG			Alternate Course For 8th sem (Without External Internship)								
EEUG	1	8	8EE197	Major Project	0	0	24	8			
EEUG	2	8	8EE196	Comprehensive Viva	0	0	6	2			
EEUG	2	8	7EE1XX	Departmental Elective-V	3	0	0	3			
EEUG	2	8	7EE1XX	Departmental Elective-VI	3	0	0	3			

EEUG	2	8	7EE1XX	Departmental Elective-VII	3	0	0	3	
EEUG	2	8	7EE1XX	Engineering -IV/HSS/Science/Department(Elective)	3	0	0	3	
EEUG	2	8		Semester Total				22	22

Department Of Electrical Engineering

B.Tech –EE Course Structure For 2015 Batch Onwards

EEUG				List For B.Tech- EE: Departmental/ Open Electives					
EEUG	1	EL	XEE151	Utilization & Traction	3	0	0	3	TH
EEUG	2	EL	XEE152	Electrical Drawing, Estimation & Costing	3	0	0	3	TH
EEUG	3	EL	XEE153	Special Electrical Machines	3	0	0	3	TH
EEUG	4	EL	XEE154	Electrical Machines Design	3	0	0	3	TH
EEUG	5	EL	XEE155	Industrial Drives and Control	3	0	0	3	TH
EEUG	6	EL	XEE157	Modern Control Theory	3	0	0	3	TH
EEUG	7	EL	XEE158	Power Systems Dynamics & Reliability	3	0	0	3	TH
EEUG	8	EL	XEE159	Computer Aided Power System Design	3	0	0	3	TH
EEUG	9	EL	XEE160	Power System Design	3	0	0	3	TH
EEUG	10	EL	XEE161	Microprocessor & Microcontrollers	3	0	0	3	TH
EEUG	11	EL	XEE162	Microcontrollers & Its Applications	3	0	0	3	TH
EEUG	12	EL	XEE163	Digital Control System	3	0	0	3	TH
EEUG	13	EL	XEE164	Advance Control Theory	3	0	0	3	TH
EEUG	14	EL	XEE165	Modern Power Operation & Control	3	0	0	3	TH
EEUG	15	EL	XEE166	HVDC Transmission	3	0	0	3	TH
EEUG	16	EL	XEE167	Flexible AC Transmission Systems (FACTS)	3	0	0	3	TH
EEUG	17	EL	XEE168	PLC and SCADA	3	0	0	3	TH
EEUG	18	EL	XEE169	SCADA and Energy Management Systems	3	0	0	3	TH
EEUG	19	EL	XEE170	Advance Instrumentation	3	0	0	3	TH
EEUG	20	EL	XEE171	Process Control	3	0	0	3	TH
EEUG	21	EL	XEE172	Process Control & Instrumentation	3	0	0	3	TH
EEUG	22	EL	XEE173	Performance Specifications & Control System Design	3	0	0	3	TH
EEUG	23	EL	XCS155	Computer Architecture	3	0	0	3	TH
EEUG	24	EL	XCS158	Image Processing	3	0	0	3	TH
EEUG	25	EL	XEC 117	Digital Signal Processing	3	0	0	3	TH
EEUG	26	EL	XEC 119	Digital communication	3	0	0	3	TH

EEUG	27	EL	XME164	Power Plant Engineering	3	0	0	3	TH	
EEUG	28	EL	XME1XX	Energy Conversion	3	0	0	3	TH	
EEUG	29	EL	XPH103	Materials Science & Technology	3	0	0	3	TH	