GMR Institute of Technology
An Autonomous Institute Affiliated to JNTU-GV

GMRIT Training Tomorrow's Engineers Today

1.2.1 New Courses Introduced

Department of Electrical and Electronics Engineering

INDEX

Department of Electrical & Electronics Engineering

Minimum Credits to be earned: 164 (for Regular Students)
131 (for Lateral Entry Students)

Seventh Semester							
1		Elective V (Professional Elective)		3	1	-	3
2		Elective VI (Professional Elective)		3	1	-	3
3		Elective VII (Open Elective III)		3	1	-	3
4	19EE701	Summer Internship II	1,2,5,6,10,12	-	-	-	1.5
5	19EE702	Project	1 to12,PSO1,PSO2	-	-	16	8
			Total	**9**	**3**	**16**	**18.5**
Eighth Semester							
1		Elective VIII (Professional Elective)		-	-	-	3
2		Elective IX (Open Elective IV)		-	-	-	3
3	19EE801	Full Semester Internship (FSI)	1,2,5,8,9,10,PSO1, PSO2	-	-	-	9
			Total	**-**	**-**	**-**	**15**

List of Electives

Elective V							
Career Path I, II, III and Other Core Electives							
1	19EEC13	Battery Management Systems	2,12, PSO1, PSO2	3	1	-	3
2	19EEC23	Hybrid Renewable Energy Systems Design	2,12, PSO1, PSO2	3	1	-	3
3	19EEC33	Communication and Security in Smart Grid	2,12, PSO1, PSO2	3	1	-	3
4	19EE010	Electrical Distribution Systems	2,3,PSO2	3	1	-	3
5	19EC401	Analog and Digital Communications	1,2	3	1	-	3
6	19IT304	Database Management Systems	1,2,3,12	3	1	-	3
7		MOOCs		-	-	-	3
Elective VI							
1	19EE011	Utilization of Electrical Energy	3,6,7,8	3	1	-	3
2	19EE012	Microprocessors and Microcontroller interfacing	2,3,10,PSO2	3	1	-	3
3	19EE013	Programmable Logic Controllers	2,3,PSO2	3	1	-	3
		MOOCs		-	-	-	3
Elective VII:Open Elective III							
1	19CE003	Solid Waste Management	3,7,12	3	1	-	3
2	19EE003	Fundamentals of Electrical Vehicle Technology	2,3,12	3	1	-	3
3	19ME003	Industrial Engineering and Management	1,11	3	1	-	3
4	19EC003	Interfacing and Programming with Arduino	1,2	3	1	-	3
5	19CS003	Data Science for Engineering Applications	2,3,4	3	1	-	3
6	19CH003	Industrial Ecology for Sustainable Development	2,6,7	3	1	-	3
7	19IT003	Fundamentals of Mobile Computing	1,7	3	1	-	3
8	19BS004	Advanced Materials of Renewable Energy	1,7	3	1	-	3
9	19BS005	Applied Linear Algebra for Engineers	1,12	3	1	-	3
Elective VIII (Professional Elective)							
1	19EE014	Power system Deregulation	2,3,PSO2	-	-	-	3
2	19EE015	Energy Audit, Conservartion & Management	2,3,12,PSO2	-	-	-	3
3	19EE016	High Voltage Engineering	2,3,PSO2	-	-	-	3
Elective IX (Open Elective IV)							
1	19CE019	Green Buildings	1,7,12	-	-	-	3

Comment [U1]: Approved in 13th BoS, EEE conducted on 19.12.2020

Comment [U2]: Approved in 13th BoS, EEE conducted on 19.12.2020

Comment [U3]: Approved in 15th BoS, EEE conducted on 26.03.2022

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Comment [U5]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U6]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U7]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U8]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U9]: Approved in 15th BoS, EEE conducted on 26.03.2022

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Comment [U11]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U12]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U13]: Approved in 15th BoS, EEE conducted on 26.03.2022

Comment [U14]: Approved in 15th BoS, EEE conducted on 26.03.2022

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2	19EE017	Sustainable Energy	1,2,12	-	-	-	3
3	19ME019	Total Quality Management	1,11	-	-	-	3
4	19EC011	Communication Technologies	1,2	-	-	-	3
5	19CS020	Applications of Artificial Intelligence	2,3,6,7	-	-	-	3
6	19CH016	Green Technologies	1,6,7	-	-	-	3
7	19IT015	Human Computer Interaction	1,7	-	-	-	3
8	19BS006	Handling of Industrial waste and waste water	1,7	-	-	-	3
Audit Course							
1	19AT001	Communication Etiquette in Workplaces	-	-	-	-	-
2	19AT002	Contemporary India: Economy, Policy and Society	-	-	-	-	-
3	19AT003	Design The Thinking	-	-	-	-	-
4	19AT004	Ethics and Integrity	-	-	-	-	-
5	19AT005	Indian Heritage and Culture	-	-	-	-	-
6	19AT006	Human Values and Professional Etheics	-	-	-	-	-
7	19AT007	Intellectual Property Rights and Patents	-	-	-	-	-
8	19AT008	Introduction to Journalism	-	-	-	-	-
9	19AT009	Mass Media Communication	-	-	-	-	-
10	19AT010	Science, Technology and Development	-	-	-	-	-
11	19AT011	Social Responsibility	-	-	-	-	-
12	19AT012	The Art of Photography and Film Making	-	-	-	-	-
13	19AT013	Gender Equality for Sustainbility	-	-	-	-	-
14	19AT014	Women in Leadership	-	-	-	-	-
15	19AT015	Introduction to Research Methodology	-	-	-	-	-
16	19AT016	Climate Changes and Circular Economy					
B. Tech. (Honors)							
Domain I: AI in Electrical and Electronics Engineering							
01	19EEH11	Computational Intellegence in Electrical Engineering	2,12, PSO2	4	-	-	4
02	19EEH12	Data analytics in Electrical Engineering	2,12	4	-	-	4
03	19EEH13	Internet of Things in Electrical Engineering	2,12,PSO1	4	-	-	4
04	19EEH14	Introduction to Smart Cities	2,12,PSO2	4	-	-	4
Domain II: Power Systems							
01	19EEH21	Design and Layout of Power Systems	2,3,8	4	-	-	4
02	19EEH22	Distributed Generation Technologies	2,6,7,8,PSO2	4	-	-	4
03	19EEH23	Distribution System Planning and Automation	2,3,6,PSO2	4	-	-	4
04	19EEH24	Power Quality	2,3,8,PSO2	4	-	-	4
Domain III: Control Systems							
01	19EEH31	Adaptive Control Systems	2,3,PSO1,PSO2	4	-	-	4
02	19EEH32	Introduction to Autonomous Vehicles	2,3,PSO2	4	-	-	4
03	19EEH33	Introduction to Robust Control Systems	2,3,PSO1,PSO2	4	-	-	4
04	19EEH34	Optimal Control Systems	2,3,PSO1,PSO2	4	-	-	4
Domain IV: Power Electronics and Drives							
01	19EEH41	Advanced Power Electronics	2,3,PSO1,PSO2	4	-	-	4
02	19EEH42	Flexible AC Transimission Systems	2,3,PSO1	4	-	-	4
03	19EEH43	Power Electronic Control of DC Drives	2,3,PSO2	4	-	-	4
04	19EEH44	Power Electronic Control of AC Drives	2,3,PSO2	4	-	-	4
B. Tech. (Minors)							
Energy Science & Technology							
01	19CHM11	Foundation of Energy Science and Technology	1,2,3,5,7,12	4	-	-	4
02	19CHM12	Energy Generation from Waste	1,2,3,4,5	4	-	-	4
03	19CHM13	Energy Storage Systems	1,2,3,6,7	4	-	-	4
04	19CHM14	Hydrogen Energy and Fuel Cells	1,2,3,7	4	-	-	4
Nano Science & Technology							
01	19CHM21	Introduction and Characterization of Nano Materials	1,2,3,7	4	-	-	4

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Comment [U19]: Approved in 15th BoS, EEE conducted on 26.03.2022

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02	19CHM22	Carbon Nanostructures and Applications	1,3,4,5	4	-	-	4
03	19CHM23	Energy, Environment & Biomedical Nanotechnology	1,2,3,7	4	-	-	4
04	19CHM24	Industrial Applications of Nano Technology	2,3,5,7	4	-	-	4
Environmental Engineering							
01	19CEM11	Watershed Management	6,7	4	-	-	4
02	19CEM12	Industrial Pollution Control and Engineering	3,6,7	4	-	-	4
03	19CEM13	Solid and Hazardous Waste Management	1,3,6,7	4	-	-	4
04	19CEM14	Ecology and Environmental Assessment	1,3,6,7	4	-	-	4
Artificial Intelligence & Machine Learning							
01	19CSM11	Fundamentals of AI & Machine Learning	1,12	4	-	-	4
02	19CSM12	Feature Engineering for Machine Learning	1,2,3	4	-	-	4
03	19CSM13	Exploratory Data Analytics	1,4	4	-	-	4
04	19CSM14	Deep Learning	1,2,4	4	-	-	4
Cyber Security							
01	19CSM21	Fundamentals of Security	1,2	4	-	-	4
02	19CSM22	Management of Information Security	3,6,7	4	-	-	4
03	19CSM23	Cyber Security	1,3,4	4	-	-	4
04	19CSM24	Cloud Security	2,3	4	-	-	4
Data Science & Analytics							
01	19CSM31	Data Cleaning	2,3,4	4	-	-	4
02	19CSM32	Data Engineering	1,2,3,4	4	-	-	4
03	19CSM33	Text Analytics	1,2,4	4	-	-	4
04	19CSM34	Social Network and Semantic Analysis	2,4	4	-	-	4
Computer Systems Programming							
01	19CSM41	Programming Fundamentals	1,2,3	4	-	-	4
02	19CSM41	Data Structures & Algorithms	1,2,3,4	4	-	-	4
03	19CSM41	Fundamentals of Databases	1,4	4	-	-	4
04	19CSM41	Fundamentals of Computer Networks & Operating Systems	1,2,3	4	-	-	4
Digital IC Design							
01	19ECM11	Fundamentals of VLSI Design	1,2,3	4	-	-	4
02	19ECM12	Digital Design using HDL	1,2,3	4	-	-	4
03	19ECM13	FPGA Technology	1,2	4	-	-	4
04	19ECM14	Analog and Mixed Signal Design	1,2	4	-	-	4
Industrial Automation							
01	19ECM21	Microcontrollers and Interfacing	1,2,3	4	-	-	4
02	19ECM22	Sensors and Data Acquisition System	1,2	4	-	-	4
03	19ECM23	Fundamentals of Labview	1,2	4	-	-	4
04	19ECM24	Medical Robotics	1,2,3	4	-	-	4
Communications and Networking							
01	19ECM31	Principles of Communications	1,2	4	-	-	4
02	19ECM32	Coding Theory and Practice	1,2	4	-	-	4
03	19ECM33	Ad-hoc and Wireless Sensor Networks	1,2,3	4	-	-	4
04	19ECM34	Fundamentals of Multimedia Networking	1,2,3	4	-	-	4
Avionics							
01	19ECM41	Principles of Aerodynamics	1,2	4	-	-	4
02	19ECM42	Aircraft Electrical Systems	1,2	4	-	-	4
03	19ECM43	Aircraft Instrument Systems	1,2	4	-	-	4
04	19ECM44	Aircraft Communication and Navigational Systems	1,2	4	-	-	4
Geographic Information System							
01	19ECM51	Sensors and Sensing Technology	1,2	4	-	-	4
02	19ECM52	Geographic Information Systems	1,2	4	-	-	4
03	19ECM53	Digital Image Processing	1,2	4	-	-	4

04	19ECM54	Lidar Systems	1,2	4	-	-	4
Cloud Application Development							
01	19ITM11	Introduction to Cloud Computing	6,7,12	4	-	-	4
02	19ITM12	Introduction to Web Development with HTML, CSS, JavaScript	1,2,3,9,12	4	-	-	4
03	19ITM13	Developing Cloud Native Applications	5,8,10	4	-	-	4
04	19ITM14	Developing Cloud Apps with Node.js and React	5,8,10	4	-	-	4
Robotics and Automation							
01	19MEM11	Introduction to Robotics	1,2,3	4	-	-	4
02	19MEM12	Drives and Sensors	1,2,3,4	4	-	-	4
03	19MEM13	Control Systems for Robotics	1,2,3,4	4	-	-	4
04	19MEM14	Machine Learning for Robotics	2,5	4	-	-	4
Industrial Systems Engineering							
01	19MEM21	Industrial Management	1,10,11,12	4	-	-	4
02	19MEM22	Fundamentals of Operations Research	1,2,3,5	4	-	-	4
03	19MEM23	Enterprise Resource Planning	1,2,3,5,11,12	4	-	-	4
04	19MEM24	Production Planning and Control	1,2,3,5,11,12	4	-	-	4

Department of Electrical & Electronics Engineering
Minimum Credits to be earned: 160 (for Regular Students)
127 (for Lateral Entry Students)

Fifth Semester							
1	20IT306	Fundamentals of Object Oriented Programming	1,2,3,4,5	3	-	2	4
2	20EE502	Control Systems	2,3,4,5,PSO1,PSO2	3	-	2	4
3	20EE503	Electrical Drives	2,3,PSO2	3	1	-	3
4	20EE504	Power System Protection	2,3,PSO2	3	1	-	3
5		Elective I (Professional Elective)		3	1	-	3
6		Elective II (Open Elective I)		3	1	-	3
7	20EE507	Power Electronics and Drives Lab	4,5	-	-	3	1.5
8	20TPX01	Term Paper	1,4,10,12	-	-	3	1.5
9	20ESX02	Employability Skills II	1,2,5,8,10,12	1	1	1	-
10	20HSX12	CC & EC Activities II	6,7,9,10	-	-	1	-
11	20SIX01	Summer Internship I	1,2,8,10,12				1.5
			Total	**19**	**5**	**12**	**24.5**
Sixth Semester							
1	20HSX10	Engineering Economics and Project Management	11,12	3	1	-	3
2	20EE602	Power System Analysis and Control	2,3,PSO1,PSO2	3	1	-	3
3	20EE603	Utilization of Electrical Energy	3,6,7,8	3	1	-	3
4		Elective III (Professional Elective)		3	-	2	4
5		Elective IV (Open Elective II)		3	1	-	3
6	20EE606	Power Systems Lab	4,5	-	-	3	1.5
7	20MPX01	Mini Project	1 to12,PSO1,PSO2	-	-	3	1.5
8	20ESX02	Employability Skills II	1,2,5,8,10,12	1	1	1	3
9	20HSX12	CC & EC Activities II	6,7,9,10	-	-	1	1
10		Audit Course	12	-	-	-	-
			Total	**16**	**5**	**10**	**23**

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List of Electives

Elective I							
Career Path I, II, III and Other Core Electives							
1	20EEC11	Electrical Vehicle Technologies	2,3,12,PSO2	3	1	-	3
2	20EEC21	Green Energy Technologies	2,3,12	3	1	-	3
3	20EEC31	Micro and Smart Grid Technologies	2,3,12,PSO2	3	1	-	3
4	20EE004	Electrical Machine Design	2,3	3	1	-	3
5	20EE005	High Voltage DC Transmission	2,3,PSO2	3	1	-	3
6	20EE006	Special Electrical Machines	2,3,PSO2	3	1	-	3
7		MOOCs		-	-	-	3
Elective II: Open Elective I							
1	20CE001	Disaster Management	2,7	3	1	-	3
2	20EE001	Electrical Installation, Safety and Auditing	2,3,6,8	3	1	-	3
3	20ME001	Fundamentals of Optimization Techniques	1,2	3	1	-	3
4	20EC001	Sensors for Engineering Applications	1	3	1	-	3
5	20CS001	Fundamentals of Artificail Intellegence	1,2,3	3	1	-	3
6	20CH001	Energy Conversion and Storage Devices	1,3,6,7	3	1	-	3
7	20IT001	Fundamentals of Multimedia	1,5,7	3	1	-	3
8	20BS001	Nano Materials and Technology	1,12	3	1	-	3
Elective III							
Career Path I, II, III and Other Core Electives							
1	20EEC12	Electric Vehicle Drive Train Systems	2,3,12,PSO2	3	-	2	4
2	20EEC22	Power Electronic Applications to Green Energy Systems	2,3,5,12,PSO2	3	-	2	4
3	20EEC32	Control and Instrumentation of Smart Grid Systems	3,4,5,12,PSO2	3	-	2	4
4	20EE007	Advanced Control Systems	2,3,4,5,PSO1,PSO2	3	-	2	4
5	20EE008	Discrete Signal Processing	2,3,4,5,PSO1,PSO2	3	-	2	4
6	20EE009	Machine Modelling and Steady State Analysis	2,3,4,5	3	-	2	4
Elective IV : Open Eletive II							
1	20CE002	Air Pollution and Environmental Impact Assessment	6,7,12	3	1	-	3
2	20EE002	Renewable Energy Sources	2,7	3	1	-	3
3	20ME002	Principles of Entrepreneurship	1,11	3	1	-	3
4	20EC002	Electronics for Agriculture	1,2	3	1	-	3
5	20CS002	Fundamental of Machine Learning	2,3	3	1	-	3
6	20CH002	Industrial Safety and Hazard Management	1,2,3,6,8	3	1	-	3
7	20IT002	Fundamentals of Cloud Computing	1,7	3	1	-	3
8	20BS002	Advanced Numerical Techniques	1,2	3	1	-	3
9	20BS003	Functional Materials and Applications	1,4	3	1	-	3
Audit Course							
1	20AT001	Communication Etiquette in Workplaces	-	-	-	-	-
2	20AT002	Contemporary India: Economy, Policy and Society	-	-	-	-	-
3	20AT003	Design The Thinking	-	-	-	-	-
4	20AT004	Ethics and Integrity	-	-	-	-	-
5	20AT005	Indian Heritage and Culture	-	-	-	-	-
6	20AT006	Human Values and Professional Etheics	-	-	-	-	-
7	20AT007	Intellectual Property Rights and Patents	-	-	-	-	-
8	20AT008	Introduction to Journalism	-	-	-	-	-
9	20AT009	Mass Media Communication	-	-	-	-	-
10	20AT010	Science, Technology and Development	-	-	-	-	-
11	20AT011	Social Responsibility	-	-	-	-	-
12	20AT012	The Art of Photography and Film Making	-	-	-	-	-
13	20AT013	Gender Equality for Sustainbility	-	-	-	-	-
14	20AT014	Women in Leadership	-	-	-	-	-

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15	20AT015	Introduction to Research Methodology	-	-	-	-	-
16	20AT016	Climate Chnages and Circular Economy					
B. Tech. (Honors)							
Domain I: AI in Electrical and Electronics Engineering							
01	20EEH11	Computational Intellegence in Electrical Engineering	1,2,12,PSO2	4	-	-	4
02	20EEH12	Data analytics in Electrical Engineering	1,2,12	4	-	-	4
03	20EEH13	Internet of Things in Electrical Engineering	1,2,12, PSO1	4	-	-	4
04	20EEH14	Introduction to Smart Cities	1,2,12, PSO2	4	-	-	4
Domain II: Power Systems							
01	20EEH21	Design and Layout of Power Systems	1,2,3,8	4	-	-	4
02	20EEH22	Distributed Generation Technologies	1,2,6,7,8, PSO2	4	-	-	4
03	20EEH23	Distribution System Planning and Automation	2,3,6, PSO2	4	-	-	4
04	20EEH24	Power Quality	2,3,8, PSO2	4	-	-	4
Domain III: Control Systems							
01	20EEH31	Adaptive Control Systems	2,3,PSO1,PSO2	4	-	-	4
02	20EEH32	Introduction to Autonomous Vehicles	2,3, PSO2	4	-	-	4
03	20EEH33	Introduction to Robust Control Systems	2,3, PSO1,PSO2	4	-	-	4
04	20EEH34	Optimal Control Systems	2,3, PSO1,PSO2	4	-	-	4
Domain IV: Power Electronics and Drives							
01	20EEH41	Advanced Power Electronics	2,3, PSO1,PSO2	4	-	-	4
02	20EEH42	Flexible AC Transimission Systems	2,3, PSO1	4	-	-	4
03	20EEH43	Power Electronic Control of DC Drives	2,3,PSO2	4	-	-	4
04	20EEH44	Power Electronic Control of AC Drives	2,3,PSO2	4	-	-	4
B. Tech. (Minors)							
Energy Science & Technology							
01	20CHM11	Foundation of Energy Science and Technology	1,2,3,5,7,12	4	-	-	4
02	20CHM12	Energy Generation from Waste	1,2,3,4,5	4	-	-	4
03	20CHM13	Energy Storage Systems	1,2,3,6,7	4	-	-	4
04	20CHM14	Hydrogen Energy and Fuel Cells	1,2,3,7	4	-	-	4
Nano Science & Technology							
01	20CHM21	Introduction and Characterization of Nano Materials	1,2,3,7	4	-	-	4
02	20CHM22	Carbon Nanostructures and Applications	1,3,4,5	4	-	-	4
03	20CHM23	Energy, Environment & Biomedical Nanotechnology	1,2,3,7	4	-	-	4
04	20CHM24	Industrial Applications of Nano Technology	2,3,5,7	4	-	-	4
Environmental Engineering							
01	20CEM11	Watershed Management	6,7	4	-	-	4
02	20CEM12	Industrial Pollution Control and Engineering	3,6,7,12	4	-	-	4
03	20CEM13	Solid and Hazardous Waste Management	1,3,6,7	4	-	-	4
04	20CEM14	Ecology and Environmental Assessment	1,3,6,7	4	-	-	4
Artificial Intelligence & Machine Learning							
01	20CSM11	Fundamentals of AI & Machine Learning	1,12	4	-	-	4
02	20CSM12	Feature Engineering for Machine Learning	1,2,3	4	-	-	4
03	20CSM13	Exploratory Data Analytics	1,4	4	-	-	4
04	20CSM14	Deep Learning	1,2,4	4	-	-	4
Cyber Security							
01	20CSM21	Fundamentals of Security	1,2	4	-	-	4
02	20CSM22	Management of Information Security	3,6,7	4	-	-	4
03	20CSM23	Cyber Security	1,3,4	4	-	-	4
04	20CSM24	Cloud Security	2,3	4	-	-	4
Data Science & Analytics							
01	20CSM31	Data Cleaning	2,3,4	4	-	-	4
02	20CSM32	Data Engineering	1,2,3,4	4	-	-	4
03	20CSM33	Text Analytics	1,2,4	4	-	-	4

Comment [U52]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U53]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U54]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U55]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

04	20CSM34	Social Network and Semantic Analysis	2,4	4	-	-	4
Computer Systems Programming							
01	20CSM41	Programming Fundamentals	1,2,3	4	-	-	4
02	20CSM41	Data Structures & Algorithms	1,2,3,4	4	-	-	4
03	20CSM41	Fundamentals of Databases	1,4	4	-	-	4
04	20CSM41	Fundamentals of Computer Networks & Operating Systems	1,2,3	4	-	-	4
Digital IC Design							
01	20ECM11	Fundamentals of VLSI Design	1,2,3	4	-	-	4
02	20ECM12	Digital Design using HDL	1,2,3	4	-	-	4
03	20ECM13	FPGA Technology	1,2	4	-	-	4
04	20ECM14	Analog and Mixed Signal Design	1,2	4	-	-	4
Industrial Automation							
01	20ECM21	Microcontrollers and Interfacing	1,2,3	4	-	-	4
02	20ECM22	Sensors and Data Acquisition System	1,2	4	-	-	4
03	20ECM23	Fundamentals of Labview	1,2	4	-	-	4
04	20ECM24	Medical Robotics	1,2,3	4	-	-	4
Communications and Networking							
01	20ECM31	Principles of Communications	1,2	4	-	-	4
02	20ECM32	Coding Theory and Practice	1,2	4	-	-	4
03	20ECM33	Ad-hoc and Wireless Sensor Networks	1,2,3	4	-	-	4
04	20ECM34	Fundamentals of Multimedia Networking	1,2,3	4	-	-	4
Avionics							
01	20ECM41	Principles of Aerodynamics	1,2	4	-	-	4
02	20ECM42	Aircraft Electrical Systems	1,2	4	-	-	4
03	20ECM43	Aircraft Instrument Systems	1,2	4	-	-	4
04	20ECM44	Aircraft Communication and Navigational Systems	1,2	4	-	-	4
Geographic Information System							
01	20ECM51	Sensors and Sensing Technology	1,2	4	-	-	4
02	20ECM52	Geographic Information Systems	1,2	4	-	-	4
03	20ECM53	Digital Image Processing	1,2	4	-	-	4
04	20ECM54	Lidar Systems	1,2	4	-	-	4
Cloud Application Development							
01	20ITM11	Introduction to Cloud Computing	6,7,12	4	-	-	4
02	20ITM12	Introduction to Web Development with HTML, CSS, JavaScript	1,2,3,9,12	4	-	-	4
03	20ITM13	Developing Cloud Native Applications	5,8,10	4	-	-	4
04	20ITM14	Introduction to Cloud Computing	6,7,12	4	-	-	4
Robotics and Automation							
01	20MEM11	Introduction to Robotics	1,2,3	4	-	-	4
02	20MEM12	Drives and Sensors	1,2,3,4	4	-	-	4
03	20MEM13	Control Systems for Robotics	1,2,3,4	4	-	-	4
04	20MEM14	Machine Learning for Robotics	2,5	4	-	-	4
Industrial Systems Engineering							
01	20MEM21	Industrial Management	1,10,11,12	4	-	-	4
02	20MEM22	Fundamentals of Operations Research	1,2,3,5	4	-	-	4
03	20MEM23	Enterprise Resource Planning	1,2,3,5,11,12	4	-	-	4
04	20MEM24	Production Planning and Control	1,2,3,5,11,12	4	-	-	4

Department of Electrical & Electronics Engineering
Minimum Credits to be earned: 160 (for Regular Students)
127 (for Lateral Entry Students)

Third Semester							
1	21MA302	Engineering Mathematics III	1,4,5	3	-	2	4
2	21EE302	DC Machines and Transformers	1,2	3	1	-	3
3	21EE303	Electrical Circuit Analysis	1,2,PSO1	3	1	-	3
4	21EE304	Electromagnetic Field Theory	1,2	3	1	-	3
5	21EE305	Measurements and Instrumentation	1,2,3	3	1	-	3
6	21EE306	Semiconductor Devices and Circuits	1,2, 3, 4,5	3	-	2	4
7	21EE307	DC Machines Lab	4	-	-	3	1.5
8	21EE308	Electrical Circuits and Simulation Lab	4,5	-	-	3	1.5
9	21BEA01	Environmental Studies	1,6,7,12	-	-	-	-
10	21ESX01	Employability Skills I	1,2,5,8,10,12	1	1	1	-
11	21HSX11	CC & EC Activities I	6,7,9,10	-	-	1	-
			Total	**19**	**5**	**12**	**23**
Fourth Semester							
1	21EE401	AC Machines	1,2	3	1	-	3
2	21EE402	Linear and Digital Integrated Circuits	1,2,4	3	-	2	4
3	21EE403	Power Electronics	2,3,PSO1,PSO2	3	1	-	3
4	21EE404	Power Generation, Transmission and Distribution	1, 2,6	3	1	-	3
5	21EE405	Signals and Systems Theory	3,5,PSO1	3	1	-	3
6	21EE406	AC Machines Lab	4	-	-	3	1.5
7	21EE407	Measurements and Instrumentation Lab	4	-	-	3	1.5
8	21ESX01	Employability Skills I	1,2,5,8,10,12	1	1	1	3
9	21HSX11	CC & EC Activities I	6,7,9,10	-	-	1	1
			Total	**16**	**5**	**10**	**23**

Comment [U56]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U57]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U58]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U59]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U60]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U61]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U62]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U63]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U64]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U65]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U66]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U67]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U68]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U69]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U70]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Comment [U71]: Approved in 14th BoS of EEE, Conducted on 04.09.2021.

Date: 19/12/2020

MINUTES OF MEETING

Meeting Title	13th BoS Meeting	**Date**	19/12/2020
Department	EEE	**Start Time**	11:30 AM
Place / Venue	Virtual – Microsoft Teams	**Stop Time**	03:30 PM

Participants

S. No.	Name	Designation	Signature
1	Mr. B. Venkat Rao	Scientist-E Naval Science & Technological Laboratory, Visakhapatnam	
2	Mr. K. Koteswara Rao	SC/ENG-SG Head, SR, SDSC SHAR(ISRO), Sriharikota	
3	Dr. G. Yesuratnam	Professor/EEE University College of Engineering, OU-Hyderabad	
4	Dr. G. V. Marutesheswar	Professor/EEE Sri Venkateswara University, Tirupathi	
5	Dr. Gopi Chand Naik	Professor/EEE Andhra University, Visakhapatnam	
6	Dr. N. Kumarappan	Professor and Head, Dept. of Electrical and Electronics Engineering, Annamalai University, Annamalainagar	
7	Mr. P. Nishanth	Senior Engineer R&D Division, BHEL, Hyderabad	
8	Dr. P. Bharani Chandra Kumar	Professor & HoD	
9	Dr. Chandra Sekhar	Professor	
10	Dr. P. Ramana		
11	Dr. T.S. Kishore	Associate Professor	
12	Dr. K.V.S. Prasad		
13	Dr. Rajeshkumar Patnaik		
14	Dr. K. Karthick		
15	Dr. D. Danalakshmi		
16	Dr. T.S.L.V. Ayya Rao	Sr. Assistant Professor	
17	Dr. G. Indira Kishore		

18	Dr. L. V. Suresh Kumar		
19	Dr. S.P. Mishra		
20	Mr. J.S.V. Siva Kumar		
21	Dr. P. Upendra Kumar	Assistant Professor	
22	Dr. M. Premkumar		
23	Mr. V. Srikanth Babu		
24	Mr. M. Vinay Kumar		
25	Mr. M. Venkatesh		
26	Mr. R. Ramakrishna		
27	Mr. D. Rajesh Babu		
28	Mr. R. Vijaya Krishana		
29	Mr. J. Ravi Kumar		
30	Mr. NSS. Ramakrishna		

Agenda

1. Academic Regulation 2020
2. Curriculum design and development 2020 under Academic Regulation 2020
3. Syllabus (first four semesters) in Curriculum under Academic Regulation 2020
4. Modifications in Academic Regulation 2019
5. Revised Curriculum under Academic Regulation 2019
6. Changes in the Syllabus in 3rd and 4th Semesters in Curriculum under Academic Regulation 2019
7. Any other matter

Agenda points were discussed and the MOM is as follows:

S.No.	Points Discussed	Remarks
1	Dr. P. Bharani Chandra Kumar welcomes the gathering, and Dr. P. Ramana briefed about the agenda of the BoS meeting.	Dr PR, Dr PBCK
2	The curriculum design and development of both AR19 and AR20 was briefed to all BoS members and faculty members	Dr PR
3	The difference between AR19 and AR20 is also brought to the notice of all BoS members. Briefly, discussed about the APSCHE curriculum.	Dr PR
4	The BoS members suggested to mention the mark distribution between the theory and laboratory component for the integrated courses.	Dr GVM, Dr GY
5	The BoS members suggested to keep Electrical Circuit Analysis and its respective laboratory as a two separate courses. And, also suggested to keep the Semiconductor devices and circuits as an integrated course.	Dr GVM, Dr GY
6	The BoS members inquired about the theory and its laboratory component in the same semester. The HoD and Dr PR has explained the situation of why theory and laboratory are placed in the same semester. In addition, the BoS members are felt that the number of courses is more in third semester. The HoD also explained about the practical difficulty in reducing the course in third and fourth semester.	Mr KKR, Dr PBCK, Dr PR
7	All the members of BoS felt that DC machine laboratory should shift to the third semester. And, they asked to shift the Measurement and Instrumentation lab or semiconductor & devices laboratory to the fourth semester.	All Members
8	The BoS members felt that the academic load in 7th and 8th semester is very much less than the 2nd and 3rd year loads. And, they also told that for average students, it will be tough to study since they are just coming to the respective department. The HoD explained that due to the	Mr KKR, Dr PBCK

	placement activities and APSCHE guidelines, the work load is reduced during final year.	
9	Dr PR and Dr PBCK briefed the evolution of career path courses and its importance to the BoS members. The BoS members appreciated the effort taken by the department with regard to the career path courses.	All members
10	HoD briefed about B. Tech. (Regular/Minor/Honors). One of the BoS members raised the question about the usefulness of the B.Tech. (Minor). He suggested to discuss with the higher authority before implementing this scheme.	Dr GVM, Dr. PBCK
11	One of the BoS members suggested to keep some essential courses such as computation fluid dynamics, thermodynamics, etc. in open elective courses.	Mr KKR
12	Suggested to keep calibration related topics in Measurement and Instrumentation or its respective laboratory.	Mr KKR
13	Suggested to include electronic instruments as a separate unit in Measurements and Instrumentation subject.	Dr KA
14	Suggested to include Magnetic Circuits in EMFT subject.	Dr KA
15	One of the BoS member suggested to keep B.L.Theraja as a reference text book in DC Machines and Transformers and as well as in AC Machines. The same member is also suggested to keep Electric Power Generation, Transmission and Distribution by S. N. Singh in the subject Power Generation, Transmission and Distribution.	Dr KA
16	Suggested to include Signals and Systems Theory as an elective course instead of core course if possible.	Dr KA
18	One of the BoS member advised that while mapping POs to various subjects, utmost care should be taken.	Dr KA
19	Suggested to change the title of Unit-III in Measurement and Instrumentation course as "Potentiometers and Bridges".	Dr GY
20	Suggested to shift the conventional speed control techniques of Induction motor to electrical drives course.	Gr GVM
21	The BoS members felt that the contents in Power generation, transmission, and distribution course is somewhat high. Also suggested to reduce some content wherever possible.	Dr GY, Dr GVM, Dr KA
22	Dr PR also discussed about the extra courses to get B.Tech. (Honors) degree and the syllabus of the same. The BoS members are satisfied with all the selected courses.	Dr PR
23	Suggested to recheck the content in Data analytic course since the topic "probability" is already covered in Signal and Systems Theory.	Mr KKR

Signature of HOD

Date: 04/09/2021

MINUTES OF MEETING

Meeting Title	14th BoS Meeting	**Date**	04/09/2021
Department	EEE	**Start Time**	11:15 AM
Place / Venue	Virtual - Microsoft Teams	**Stop Time**	04:00 PM

Participants

S. No.	Name	Designation	Signature
1.	Dr. G. Yesuratnam	Professor/EEE University College of Engineering, OU-Hyderabad	Attended through online
2.	Dr. Gopi Chand Naik	Professor/EEE Andhra University, Visakhapatnam	Attended through online
3.	Dr. N. Kumarappan	Professor and Head/EEE, Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu	Attended through online
4.	Mr. B. Venkat Rao	Scientist-E Naval Science & Technological Laboratory, Visakhapatnam	Attended through online
5.	Mr. P. Nishanth	Senior Engineer R&D Division, BHEL, Hyderabad.	Attended through online
6.	Dr. P. Bharani Chandra Kumar	Professor & HoD	
7.	Dr. Chandra Sekhar	Professor	
8.	Dr. P. Ramana		
9.	Dr. T.S. Kishore	Associate Professor	
10.	Dr. K.V.S. Prasad		
11.	Dr. Rajeshkumar Patnaik		
12.	Dr. K. Karthick		
13.	Dr. D. Danalakshmi		
14.	Dr. T.S.L.V. Ayya Rao	Sr. Assistant Professor	
15.	Dr. G. Indira Kishore		
16.	Dr. L. V. Suresh Kumar		
17.	Dr. S.P. Mishra		
18.	Dr.Ch. Hemanth Kumar		
19.	Dr.M. Rambabu		
20.	Mr. J.S.V. Siva Kumar		

21.	Dr.N.V.A. Ravi Kumar		
22.	Dr. P. Upendra Kumar	Assistant Professor	
23.	Mr. V. Srikanth Babu		
24.	Dr. M. Vinay Kumar		
25.	Mr. M. Venkatesh		
26.	Mr. R. Ramakrishna		
27.	Mr. D. Rajesh Babu		
28.	Mr. R. Vijaya Krishna		
29.	Mr. J. Ravi Kumar		
30.	Mr. NSS. Ramakrishna		
31.	Dr. P. Praveen Kumar		
32.	Mr.V. Manoj		
33.	Mr. P.V.V. Pawan Kumar		

Agenda

1. Academic Regulation 2019 and 2020 (AR 2019, AR2020).
2. Curriculum 2019, 2020(Modifications).
3. Syllabi for the B.Tech 5th and 6th semesters under AR 2019 and AR 2020, B.Tech Honors.
4. Any other modifications in the existing Curriculum and Syllabi in AR 2016, if any.
5. Any other matter

Agenda points were discussed and the MOM is as follows:

S. No.	Points Discussed	Remarks
1	Dr. P. Bharani Chandra Kumar welcomes the gathering, and Dr. P. Ramana briefed about the agenda of the BoS meeting.	Dr PR, Dr PBCK
2	The curriculum modifications of both AR19 and AR20 was briefed to all BoS members and faculty members	Dr PR
3	The details of Honors and Minors were briefed to all BoS members.	Dr PR
4	The BoS members suggested to rename the course "Introduction to Sustainability".	Dr NK, Dr GY
5	The BoS members suggested to rename the course "Electrical Installation and safety" as "Electrical Audit and Safety".	Dr NK, Dr GY
6	The BoS members suggested to check the availability of text book for the Career path, Honors and Minor courses.	All Members
7	The BoS members suggested to move the power quality course from honors to elective / core course.	Dr NK, Dr GY
8	Dr PBCK and Dr PR briefed about career path courses, honors, minor courses and its importance to the BoS members. The BoS members appreciated the efforts taken by the department with regard to the career path courses, honors and minor courses.	All members
9	One of the BoS members suggested to change the course "Artificial Intelligence" as "Computational Intelligence" and the text books 1 & 3 prescribed in the syllabus need to be reviewed.	Dr NK
10	The BoS members suggested that Electronics can be added as one category of course in honors.	Dr NK, Dr GY
11	One of the BoS members suggested to review the title "Electric Drives and Controllers for EVs in minor courses.	Dr NK

12	One of the BoS members suggested that Computer Vision in UVs course in minor may require some prerequisite. The syllabus should be framed accordingly.	Dr NK
13	The BoS members suggested to remove the power system transient's part from the course of "Power System Protection" and distribute the remaining portion into four units.	Dr GY, Dr NK
14	The BoS members suggested that the simulation experiments can be added in the Power Systems lab.	Dr GY, Dr NK
15	One of the BoS members suggested to specify the type of forecasting in Unit IV of category 1 major course "20EE4111 Artificial Intelligence in Electrical Engineering" and select suitable text book for the course.	Dr NK
16	One of the BoS members suggested to incorporate the text book Allen J. Wood, and Bruce F. Wollenberg in Power System Analysis and Control subject.	Dr NK
17	Green Energy technologies course Unit titles should be changed.	Dr NK
18	The basics of engineering syllabus modification is brought to the notice of BoS members. The swapping of Unit 3 & 4 to Unit 1 & 2 is accepted by them.	All members
19	The Head of the department brought to the notice to all the BoS members about the question bank method instead of question paper setting method. The suggestions from BoS members were asked. The BoS members agreed to question bank method and suggested to take more care during the preparation of question bank to each course.	All members
20	The minor modifications in COs of the courses in AR16 are brought to the notice to BoS and got approval from them.	All members
21	The transitory regulations of the students who are detained in AR16 and joined in AR19 has been discussed and BoS members approved the same. • Devupalli Chandu (18341A0223), AR-16 student Re-joined with AR-19 from First Semester, has to acquire 174 credits. • Yagati Anandarao (18341A0284), AR-16 student Re-joined with AR-19 from Second Semester, has to acquire 174 credits. The following courses have been identified to compensate the balance 4 credits in AR-19 regulation. a) Electrical Engineering Lab ---- 2 credits (4th sem) b) Electrical systems and simulation lab --- 2 credits (7th sem)	All members

Signature of HOD

Date: 26/03/2022

MINUTES OF MEETING

Meeting Title	15th BoS Meeting	**Date**	26/03/2022
Department	EEE	**Start Time**	10:30 AM
Place / Venue	Virtual – Microsoft Teams	**Stop Time**	01:15 PM

Members Present

S. No.	Name	Designation	Signature
1.	Dr. G. Yesuratnam	Professor, Dept. of Electrical Engineering University College of Engineering, OU-Hyderabad	
2.	Dr. Gopi Chand Naik	Professor, Dept. of Electrical Engineering, Andhra University, Visakhapatnam.	
3.	Dr. N. Kumarappan	Professor and Head, Dept. of Electrical and Electronics Engineering, Annamalai University, Annamalai Nagar	
4.	Dr. M. Nageswara Rao	Associate Professor, Department of EEE, University College of Engineering (A), JNTUK, Kakinada.	
5.	Mr. B. Venkat Rao	Scientist -D, Electrical Engineering Department, Naval Science & Technological Laboratory Visakhapatnam	
6.	Mr. P. Nishanth	Senior Engineer R&D Division, BHEL, Hyderabad	
7.	Dr P Ramana	Professor & HoD	
8.	Dr G Chandra Sekhar	Professor	
9.	Dr T S Kishore	Associate Professor	
10.	Dr Rajesh Kumar Patnaik		
11.	Dr K Karthick		
12.	Dr D Danalakshmi		

13.	Dr G Indira Kishore	Sr. Assistant Professor	
14.	Dr T S L V Ayya Rao		
15.	Dr Ch Hemanth Kumar		
16.	Dr L V Suresh Kumar		
17.	Dr S P Misra		
18.	Dr N V A Ravi Kumar		
19.	Dr M Vinay Kumar		
20.	Dr M Rambabu		
21.	Mr J S V Siva Kumar		
22.	Dr P Upendra Kumar	Assistant Professor	
23.	Dr P Praveen Kumar		
24.	Mr M Venkatesh		
25.	Mr R Rama Krishna		
26.	Mr R Vijaya Kishna		
27.	Mr D Rajesh Babu		
28.	Mr J Ravi Kumar		
29.	Mr NSS Rama Krishna		
30.	Mr V Manoj		

Agenda

1. Finalization of the course titles and syllabus for 7th & 8th semesters as per AR 19 and AR 20 curriculum
2. Finalization of titles and Syllabus for Honors and Minors degrees as for AR 19 and AR 20
3. Approval of substitute / equivalent courses for readmitted students (2021-22 & 2022-23) as per the transitory regulations
4. Updating and finalization of the program wise subject expert lists for question paper setting, valuation etc.
5. Initiate the preparation of Question Bank for all the semester end exams
6. Any other point

Agenda points were discussed and the MOM is as follows:

S. No.	Points Discussed	Remarks
1	Dr. P. Ramana Professor & HoD welcomes the gathering, and Dr. L. V. Sureshkumar briefed about the agenda of the BoS meeting.	Dr PR, Dr LVS
2	The semester wise credits distribution and curriculum of AR19 & AR20 has been discussed	All Members
3	The details of Honors and Minors were briefed to all BoS members.	Dr PR
4	The seventh and eighth semester courses, honors, minors, open electives, and career path / professional / core electives in AR19 & AR20 regulation courses have all been carefully reviewed by all the BoS members.	All Members
5	One of the members of the BoS suggested that the Elective V course "Battery Management Systems" contain content that is primarily relevant to chemical engineering. The syllabus should cover topics related to storage systems. It is necessary to verify the textbook's availability.	Dr NK
6	Dr. N. Kumarappan, a member of the BoS, proposed adding the Indian publisher's textbook for the "Hybrid Renewable Energy Systems Design" course in Elective V list.	Dr NK
7	The BoS members suggested that for the course "Communication and Security in the Smart Grid," fundamental topics be added to unit 1. Second text book should be replaced in the given list.	Dr NK, Dr MNR
8	In the course "Electrical Distribution Systems" the FACT devices can also be added	Dr NK
9	In the course "Energy Audit, Conservation, and Management," it is necessary to verify the relevance of the second text book and reference book.	Dr NK, Dr GCN
10	The content relevant to ARM processors can be added to Unit IV of the course "Microprocessors and Microcontroller Interfacing." Additionally, a text book covering ARM processor topics should be included.	Dr NK
11	The BoS members appreciated the effort taken by the department with regard to the career path courses, honors and minors courses.	All members
12	The third text book can be removed from the text book list for the course "Programmable Logic Controllers."	Dr NK
13	"Power system Deregulation" course in Elective VIII, Change the name of the unit I as "Fundamentals of deregulation" instead of "Optimal flow". Units II and III have been found to be irrelevant to the course and must be restructured.	Dr NK
14	Prabha Kundur's "Power System Stability and Control" text book can be added to the "Power System Dynamics and Control" course. There are a few topics that look like they belong in a PG level course.	Dr NK
15	A few topics in Unit III should be shifted to Unit IV for the "High Voltage Engineering" course. C L Wadhwa text book	Dr NK

	should be moved from reference book list to text book list	
16	The transitory regulations for students (163454A0217-I Lakshman Rao, 14341A0282-A Praveen, 15341A0276-P Sowjanya, 17341A0282-Y Ashok Kumar) who were re-admitted due to a lack of attendance (transfer of students from one regulation to another) were discussed. All the BoS members agreed and approved the transitory regulations presented by HoD.	All members
17	The list of external subject experts has been shared to all members of the BoS. The new initiative of developing a question bank in preparation of question paper for the end-of-semester examinations was discussed. The members of the BoS suggested to form a subject expert team to finalize the question bank. The team should ensure that the curriculum requirements are met. Additionally, they suggested to ensure the confidentiality of the prepared questions.	All members
18	The BoS members suggested to check the course (Minor category Course) names similarity.	All members
19	The changes in COs and minor modifications to the syllabus content for AR19/AR20 courses up to the sixth semester have been discussed and approved.	All members
20	The modifications in PG regulation have been discussed and approved by all members.	All members
21	The automation of the post examination process i.e., On screen marking and online assessment has been discussed. The MOOC's course platforms has been identified.	All members

Signature of HOD