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GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR
NIRF rank- 94
QS rank002D
Total subjects of EE of Adamas University -71
Subjects Match with GJUS&T- 34
Percentage – 47.88%

Modified Course Structure A.Y. 2020 – 21 of B. Tech (Electrical Engineering)

Semester I								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	MTH11501	Engineering Mathematics – I	3	1	0	4	4
2	Theory	PHY11201	Applied Science	3	0	0	3	3
3	Theory	CSE11001/ GEE11001	Introduction to Programming/ Electrical and Electronics Technology	3	0	0	3	3
4	Theory	ENG11053	HSSM – I (English Communication – I)	3	0	0	3	3
5	Theory	BIT11003	Life Sciences	3	0	0	3	3
6	Practical	PHY12202	Applied Science Lab	0	0	3	3	2
7	Practical	CSE12002/ GEE12002	Programming Lab/ Electrical and Electronics Technology Lab	0	0	3	3	2
8	Practical	CEE12001/ MEE12001	Engineering Drawing and CAD/ Engineering Workshop	0	0	3	3	2
9	Practical	ENG12043	Communication and Collaboration Skill – I	0	0	2	2	1
10	Practical	GEE14003	Capstone Project – I	0	0	2	2	1
11	Practical	DGS11001	Design Thinking	2	0	0	2	2
			Total	**17**	**1**	**13**	**31**	**26**

Semester II								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	MTH11502	Engineering Mathematics – II	3	1	0	4	4
2	Theory	GEE11001/ CSE11001	Electrical and Electronics Technology/ Introduction to Programming	3	0	0	3	3
3	Theory	MEE11002	Engineering Mechanics	3	1	0	4	4
4	Theory	EVS11107	Environmental Science	3	0	0	3	3
5	Practical	GEE12002/ CSE12002	Electrical and Electronics Technology Lab/ Programming Lab	0	0	3	3	2
6	Practical	MEE12001/ CEE12001	Engineering Workshop/ Engineering Drawing and CAD	0	0	3	3	2
7	Practical	ENG12044	Communication and Collaboration Skill – II	0	0	2	2	1
8	Practical	GEE14004	Capstone Project – II	0	0	2	2	1
9	Practical	IDP14001	Interdisciplinary Project	0	0	5	5	3
			Total	**12**	**2**	**15**	**29**	**23**

Semester III								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	MTH11526	Engineering Mathematics – III (Transform Calculus and Special Functions)	3	0	0	3	3
2	Theory	ECO11505	HSSM – IV (Economics for Engineers)	3	0	0	3	3
3	Theory	EEE11001	Professional Core – I: Electric Circuits	3	0	0	3	3
4	Theory	EEE11002	Professional Core – II: Electrical and Electronic Measurement	3	0	0	3	3
5	Theory	EEE11003	Professional Core – III: Electrical Machines – I	3	1	0	4	4
6	Practical	EEE12004	Professional Core Lab: Electric Circuits Lab	0	0	3	3	2
7	Practical	EEE12005	Professional Core Lab: Electrical and Electronic Measurement Lab	0	0	3	3	2
8	Practical	EEE12006	Professional Core Lab: Electrical Machines – I Lab	0	0	3	3	2
9	Practical	GEE14005	Capstone Project – III	0	0	2	2	1
10	Practical	SOC14100	Community Service#	--	--	--	--	1
11	Practical	EIC11001	Venture Ideation	2	0	0	2	2
			Total	**15**	**1**	**11**	**29**	**26**

CS Activity will be taken up during the summer break after 2nd semester, and will be evaluated in the 3rd semester.

Semester IV								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	MTH11530	Engineering Mathematics – IV (Numerical Techniques)	3	0	0	3	3
2	Theory	EEE11007	Professional Core – IV: Electrical Machines – II	3	0	0	3	3
3	Theory	EEE11008	Professional Core – V: Microprocessor and Microcontroller	3	0	0	3	3
4	Theory	EEE11009	Professional Core – VI: Analog and Digital Electronics	3	0	0	3	3
5	Theory	PSG11021	Human Values and Professional Ethics	2	0	0	2	2
6	Practical	MTH12531	Numerical Techniques Lab	0	0	3	3	2
7	Practical	EEE12010	Professional Core Lab: Electrical Machines – II Lab	0	0	3	3	2
8	Practical	EEE12011	Professional Core Lab: Microprocessor and Microcontroller Lab	0	0	3	3	2
9	Practical	EEE12012	Professional Core Lab: Analog and Digital Electronics Lab	0	0	3	3	2
10	Practical	GEE14006	Capstone Project – IV	0	0	2	2	1
			Total	**14**	**0**	**14**	**28**	**23**

Semester V								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	EEE11013	Professional Core – VII: Power Systems – I	3	0	0	3	3
2	Theory	EEE11014	Professional Core – VIII: Control Systems	3	0	0	3	3
3	Theory	EEE11015	Professional Core – IX: Power Electronics	3	0	0	3	3
4	Theory	EEE11016/ EEE11017/ EEE11018	Professional Elective – I: A. Special Electrical Machines B. Electromagnetic Field Theory C. Electric Vehicle	3	0	0	3	3
5	Practical	EEE12019	Professional Core Lab: Electrical Machine Design Lab	0	0	3	3	2
6	Practical	EEE12020	Professional Core Lab: Power Systems – II Lab	0	0	3	3	2
7	Practical	EEE12021	Professional Core Lab: Control Systems Lab	0	0	3	3	2
8	Practical	EEE12022	Professional Core Lab: Power Electronics Lab	0	0	3	3	2
9	Practical	GEE14007	Capstone Project – V	0	0	2	2	1
			Total	**12**	**0**	**11**	**26**	**21**

Semester VI								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	EEE11023	Professional Core – XI: Power Systems – II	3	0	0	3	3
2	Theory	EEE11024	Professional Core – XII: Modern Control Systems	3	0	0	3	3
3	Theory	EEE11025/ EEE11026/ EEE11027	Professional Elective – II: A. Power Generation Economics B. Digital Signal Processing C. Sensors and Transducers	3	0	0	3	3
4	Theory		Open Elective – I	3	0	0	3	3
5	Practical	EEE12028	Professional Core Lab: Power Systems – II Lab	0	0	3	3	2
6	Practical	EEE12029	Professional Core Lab: Modern Control Systems Lab	0	0	3	3	2
7	Practical	EEE12030/ EEE12031/ EEE12032	Professional Elective - II Lab: A. Power Generation Economics B. Digital Signal Processing C. Sensors and Transducers	0	0	3	3	2
8	Practical	EEE15033	Technical Seminar	0	0	2	2	1
			Total	**12**	**0**	**11**	**23**	**19**

Semester VII								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	MGT11402	HSSM – V (Industrial Management)	3	0	0	3	3
2	Theory	EEE11034	Professional Core – XIII: Electric Drives	3	0	0	3	3
3	Theory	EEE11035/ EEE11036/ EEE11037	Professional Elective - II Lab: A. HVDC Transmission Systems B. Power System Dynamics C. High Voltage Engineering	3	0	0	3	3
4	Theory		Open Elective – II	3	0	0	3	3
5	Practical	EEE12038	Professional Core Lab: Electric Drives Lab	0	0	3	3	2
6	Practical	EEE14039	Minor Project	0	0	6	6	3
7	Practical	EEE14040	Summer Internship*	--	--	--	--	2
			Total	**12**	**0**	**9**	**21**	**19**

* Summer internship will be done at the end of 6th semester and will be evaluated in the 7th semester.

Semester VIII								
Sl. No.	**Type**	**Course Code**	**Course Title**	**L**	**T**	**P**	**Contact Hrs/Wk**	**Credits**
1	Theory	EEE14041	Industry Work Experience/ SIRE**/ Major Project	0	0	12	12 (for Major Project only)	4
2	Theory	EEE15042	Comprehensive Viva Voce	--	--	--	--	2
			Total	**0**	**0**	**12**	**12**	**6**

** SIRE: Scientific Investigation & Research Experience

Total Credits = 163

Total Credit Distribution Semester Wise:

Semester	**I**	**II**	**III**	**IV**	**V**	**VI**	**VII**	**VIII**	**Total Credits**
Credits	26	23	26	23	21	19	19	6	**163**