



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

DEPARTMENT OF EEE									
Y23 M.TECH (POWER ELECTRONICS AND POWER SYSTEM) STRUCTURE									
Sl	CODE	COURSE TITLE	CATEGORY	L	T	P	S	Cr	CH
1	23UC5201	PROFESSIONAL COMMUNICATION SKILLS	AUC	0	0	4	0	0	4
2	23EE5207	MATLAB PROGRAMMING FOR ENGINEERS	AUC	0	0	4	0	0	4
Total Credits(AUDIT COURSES)								0	
3	23EE5101	PYTHON PROGRAMMING FOR ELECTRICAL SYSTEMS	ESC	3	0	2	0	4	5
Total Credits(ENGINEERING SCIENCE COURSES)								4	
4	23EE5102	ADVANCED POWER CONVERTERS	PCC	2	0	2	4	4	8
5	23EE5111	MODELLING AND ANALYSIS OF ELECTRICAL MACHINES	PCC	3	1	0	0	4	5
6	23EE5104	POWER SYSTEM STABILITY& CONTROL	PCC	3	0	2	0	4	4
7	23EE5212	ADVANCED ELECTRIC DRIVES	PCC	3	1	0	0	4	4
8	23EE5213	DIGITAL CONTROLLERS	PCC	2	1	0	0	3	3
Total Credits (PROFESSIONAL CORE COURSES)								19	
9		PROFESSIONAL ELECTIVE 1	PE-1	2	0	2	0	3	4
10		PROFESSIONAL ELECTIVE 2	PE-2	2	0	2	0	3	4
11		PROFESSIONAL ELECTIVE 3	PE-3	3	1	0	0	4	5
12		PROFESSIONAL ELECTIVE 4	PE-4	3	0	0	0	3	3
13		PROFESSIONAL ELECTIVE 5	PE-5	3	0	0	0	3	0
Total Credits (PROFESSIONAL ELECTIVE COURSES)								16	
14		OPEN ELECTIVE	OE	3	0	0	0	3	0
Total Credits(OPEN ELECTIVE COURSES)								3	
15	23IE5201	ESSENTIALS OF RESEARCH DESIGN	PRI	1	1	0	0	2	2
16	23IE5149	TERM PAPER	PRI	0	0	8	0	4	8
17	23IE6150	DISSERTATION-(PART 1)	PRI	0	0	32	0	16	32
18	23IE6250	DISSERTATION-(PART 2)	PRI	0	0	32	0	16	32
	23IE6251	INTERNSHIP	PRI	0	0	32	0	16	32
Total Credits(PRI COURSES)								38	
TOTAL CREDITS								80.00	

ELECTIVE-1									
23EE51F1	OPTIMIZATION TECHNIQUES	PE-1	2	0	2	0	3	4	
23EE51F2	RELIABILITY ENGINEERING & APPLICATION TO POWER SYSTEMS	PE-1	2	0	2	0	3	4	



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ELECTIVE-2								
23EE51B1	EV BATTERIES & CHARGING SYSTEM	PE-2	2	0	2	0	3	4
23EE51B2	ENERGY STORAGE SYSTEMS	PE-2	2	0	2	0	3	4
ELECTIVE-3								
23EE52C1	FAULT DIAGNOSIS AND CONTROL OF ELECTRIC VEHICLE	PE-3	3	1	0	0	4	5
23EE52C2	ENERGY CONSERVATION & AUDIT	PE-3	3	1	0	0	4	5
ELECTIVE-4								
23EE52H1	DIGITAL SIMULATION OF POWER ELECTRONIC SYSTEMS	PE-4	3	0	0	0	3	3
23EE52H2	SWITCHED MODE POWER SUPPLY AND PWM TECHNIQUES	PE-4	3	0	0	0	3	3
ELECTIVE-5								
23EE53E1	BATTERY MANAGEMENT SYSTEMS	PE-5	3	0	0	0	3	0
23EE53E2	GREEN BUILDINGS AND SMART CITIES	PE-5	3	0	0	0	3	0

OPEN ELECTIVE

23OEBT01M	IPR & PATENT LAWS	OE	3	0	0	0	3	3
23OECE03	SOLID AND HAZARDOUS WASTE MANAGEMENT	OE	4	0	0	0	4	4
23OECE05	DISASTER MANAGEMENT	OE	4	0	0	0	4	4



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ELECTIVE-1								
23EE51A1	ELECTRIC VEHICLE POWER TRAIN DESIGN	PE-1	2	0	2	0	3	4
23EE51A2	GRID INTEGRATION OF RENEWABLE ENERGY SYSTEMS	PE-1	2	0	2	0	3	4
ELECTIVE-2								
23EE51B1	EV BATTERIES & CHARGING SYSTEM	PE-2	2	0	2	0	3	4
23EE51B2	ENERGY STORAGE SYSTEMS	PE-2	2	0	2	0	3	4
ELECTIVE-3								
23EE52C1	FAULT DIAGNOSIS AND CONTROL OF ELECTRIC VEHICLE	PE-3	3	1	0	0	4	5
23EE52C2	ENERGY CONSERVATION & AUDIT	PE-3	3	1	0	0	4	5
ELECTIVE-4								
23EE52D1	AI AND IOT FOR MODERN ELECTRICAL VEHICLES	PE-4	3	0	0	0	3	3
23EE52D2	AI AND IOT FOR GREEN ENERGY SYSTEMS	PE-4	3	0	0	0	3	3
ELECTIVE-5								
23EE53E1	BATTERY MANAGEMENT SYSTEMS	PE-5	3	0	0	0	3	0
23EE53E2	GREEN BUILDINGS AND SMART CITIES	PE-5	3	0	0	0	3	0

OPEN ELECTIVE

23OEBT01M	IPR & PATENT LAWS	OE	3	0	0	0	3	3
23OECE03	SOLID AND HAZARDOUS WASTE MANAGEMENT	OE	4	0	0	0	4	4
23OECE05	DISASTER MANAGEMENT	OE	4	0	0	0	4	4