

M.KUMARASAMY COLLEGE OF ENGINEERING, KARUR
(Autonomous)

B.E., DEGREE IN ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER: III IV V VI VII VIII

CURRICULUM - Regulation-2011

SEMESTER: III IV V VI VII VIII

(For the students admitted from the academic year 2011-2012 onwards)

SEMESTER – III

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ESE	Total
THEORY								
UMA11301	Transforms and Partial Differential Equations	3	1	0	4	50	50	100
UEE11301	Electromagnetic Theory	3	1	0	4	50	50	100
UEE11302	Electrical Machines -I	3	1	0	4	50	50	100
UCE11311	Environmental Science and Engineering	3	0	0	3	50	50	100
UEE11303	Electronic Devices & Circuits	3	0	0	3	50	50	100
UCS11311	Data Structures and Algorithms	3	0	0	3	50	50	100
PRACTICAL								
UEE11304P	Electrical Machines –I Laboratory	0	0	3	2	50	50	100
UEE11305P	Electronic Devices and Circuits Laboratory	0	0	3	2	50	50	100
UCS11312P	Data structures and Algorithms Laboratory	0	0	3	2	50	50	100
UTP11301P	Career Skill Development-I	0	0	1	1	100	0	100
Total					28			1000

SEMESTER – IV

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ESE	Total
THEORY								
UMA11403	Numerical methods	3	1	0	4	50	50	100
UEE11411	Digital Logic Circuits	3	1	0	4	50	50	100
UEE11401	Electrical Machines -II	3	1	0	4	50	50	100
UEE11402	Generation, Transmission and Distribution	3	1	0	4	50	50	100
UEE11403	Measurements and Instrumentation	3	0	0	3	50	50	100
UCS11411	Object Oriented Programming	3	0	0	3	50	50	100
PRACTICAL								
UEE11404P	Electrical Machines -II Laboratory	0	0	3	2	50	50	100
UEE11405P	Measurements & Instrumentation Laboratory	0	0	3	2	50	50	100
UCS11413P	Object Oriented Programming Laboratory	0	0	3	2	50	50	100
UTP11401P	Career Skill Development-II	0	0	1	1	100	0	100
Total					29			1000

SEMESTER - V

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ES E	Total
THEORY								
UEE11501	Power Electronics	3	1	0	4	50	50	100
UEE11502	Linear Integrated Circuits and Its Applications	3	0	0	3	50	50	100
UEE11503	Electrical machine Design	3	1	0	4	50	50	100
UEE11504	Power system Analysis & Stability	3	1	0	4	50	50	100
UEE11505	Control Systems	3	1	0	4	50	50	100
UEE11506	Micro processors and Micro - controllers	3	0	0	3	50	50	100
PRACTICAL								
UEI11413P/UEI11515P	Linear and Digital Integrated Circuits Laboratory	0	0	3	2	50	50	100
UEE11507P	Control Systems Laboratory	0	0	3	2	50	50	100
UEE11508P	Microprocessors & Microcontrollers Laboratory	0	0	3	2	50	50	100
UTP11501P	Career Skill Development-III	0	0	1	1	100	0	100
Total					29			1000

SEMESTER - VI

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ESE	Total
THEORY								
UEE11601	Electric Drives & Control	3	1	0	4	50	50	100
UEI11611/UEI11511	Digital Signal Processing	3	1	0	4	50	50	100
UEE11602	Communication Engineering	3	0	0	3	50	50	100
UEE11603	Power System Protection & Switchgear	3	1	0	4	50	50	100
UEE11604	Advanced Control Theory	3	0	0	3	50	50	100
UEE11605	Embedded systems	3	0	0	3	50	50	100
PRACTICAL								
UEE11606P	Power Electronics Laboratory	0	0	3	2	50	50	100
UEI11612P	Digital Signal Processing Laboratory	0	0	3	2	50	50	100
UEE11607P	Design Project Laboratory	0	0	2	2	50	50	100
UTP11601P	Career Skill Development-IV	0	0	1	1	100	0	100
Total					28			1000

SEMESTER - VII

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ESE	Total
	THEORY							
UEE11701	Power system Operation and Control	3	1	0	4	50	50	100
UEE11702	Special Electrical machines	3	0	0	3	50	50	100
UEE11703	High Voltage Engineering	3	0	0	3	50	50	100
UBA11701	Professional Ethics and Human Values	3	0	0	3	50	50	100
	Elective -I	3	0	0	3	50	50	100
	Elective -II	3	0	0	3	50	50	100
	PRACTICAL							
UEE11704P	Power system Simulation Laboratory	0	0	3	2	50	50	100
UEE11705P	Electric Drives and Controls Laboratory	0	0	3	2	50	50	100
Total					23			800

SEMESTER - VIII

Course Code	Course Title	Hours / Week			Credit	Maximum Marks		
		L	T	P		CIA	ESE	Total
	THEORY							
UEE11801	Electric Power Utilization and Energy Auditing	3	1	0	4	50	50	100
	Elective -III	3	0	0	3	50	50	100
	Elective -IV	3	0	0	3	50	50	100
	PRACTICAL							
UEE11802P	Project Work	0	0	18	10	100	100	200
Total					20			500

Total Credits = 157

LIST OF ELECTIVES

SEMESTER -VII		L	T	P	C
UBA11754	Principles Of Management	3	0	0	3
UEE11751	Application of Power Electronics in Power System	3	0	0	3
UEE11752	FACTS and its Applications	3	0	0	3
UEE11753	Fuzzy logic and Neural Networks	3	0	0	3
UEE11754	Power Plant Instrumentation	3	0	0	3
UEE11755	Power Quality Engineering	3	0	0	3
UEE11756	Robotics and Automation	3	0	0	3
UCS11753	Computer Architecture	3	0	0	3
UEI11756	PLC and its Application	3	0	0	3
UEI11758	Virtual Instrumentation	3	0	0	3
SEMESTER -VIII					
UBA118510	Total Quality Management	3	0	0	3
UEE11851	Advanced Power Semiconductor Devices	3	0	0	3
UEE11852	Advanced Microprocessors& Microcontrollers	3	0	0	3
UEE11853	Automatic control systems	3	0	0	3
UEE11854	HVDC Transmission	3	0	0	3
UEE11855	Renewable energy sources	3	0	0	3
UEI11851	Bio Medical Instrumentation	3	0	0	3
UEC11851	Digital Image Processing	3	0	0	3
UEC11854	Optical Communication	3	0	0	3
UEC118511	VLSI Design	3	0	0	3