

Bachelor Of Technology
Electrical and Electronics Engineering
Curriculum and syllabus



Rajiv Gandhi University of Knowledge Technologies-Basar

Rajiv Gandhi University of Knowledge and Technology
Basar, Mudhole, Adilabad – 504107

CURRICULUM OF ELECTRICAL AND ELECTRONICS ENGINEERING
RGUKT BASAR

I YEAR

I SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE1101	Network Theory-I	4-1-0	4
2	PH1001	Engineering Physics	4-0-0	4
3	MA1101	Mathematics-I	4-0-0	4
4	CS1101	Programming In C	4-0-0	4
5	CE1001	Engineering drawing	4-0-0	4
6	HS1101	Communication Skills – 1	2-0-0	1
7	PH1601	Engineering Physics Lab	0-0-3	2
8	CS1701	Programming In C Lab	0-0-3	2
9	ME1601	Engineering Workshop	0-0-3	2
Total Credits				26

I YEAR

II SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE1202	Network Theory-II	4-1-0	4
2	CY1001	Chemistry	4-0-0	4
3	MA1201	Mathematics-II	4-0-0	4
4	CS1201	Scripting Languages	4-0-0	3
5	HS1001	English	4-0-0	4
6	HS1201	Communication Skills-II	2-0-0	1
7	EE1802	Network Theory Lab	0-0-3	2
8	CY1601	Chemistry Lab	0-0-3	2
9	HS1601	English Lab	0-0-3	2
Total Credits				26

II YEAR

I SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE2101	Electrical Machines-I	4-1-0	4
2	EC2101	Electronic Circuits	4-0-0	4
3	EC2104	Electro Magnetic Field Theory	4-0-0	4
4	ME2105	Fluid Mechanics and Hydraulic Machines	4-0-0	4
5	MA2105	Mathematics-III	4-0-0	4
6	HS2101	Soft Skills-I	2-0-0	1
7	EE2701	Electrical Machines-I Lab	0-0-3	2
8	EC2701	Electronic Circuits Lab	0-0-3	2
9	EE2901	Seminar – 1	0-0-3	1
Total Credits				26

II YEAR

II SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE2201	Electrical Machines-II	4-1-0	4
2	EE2202	Linear Control Systems Engineering	4-1-0	4
3	EE2203	Power Systems-I	4-0-0	4
4	EC2205	Signals and Systems	4-0-0	4
5	EC2206	Linear and Digital Electronic Circuits	4-0-0	4
6	BM2201	Personality Development-I	2-0-0	1
7	EE2801	Electrical Machines-II Lab	0-0-3	2
8	EC2806	Linear and Digital Electronic Circuits Lab	0-0-3	2
9	EE2902	Seminar – II	0-0-3	1
Total Credits				26

III YEAR

I SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE3101	Electrical Machines-III	4-0-0	4
2	EE3102	Power Systems-II	4-1-0	4
3	EE3103	Power Electronics	4-1-0	4
4	EE3104	Electrical & Electronics Measuring Instruments	4-1-0	4
5	BSBE2001/3001	Environmental Science	4-0-0	3
6	BM3101	Personality Development-II	2-0-0	1
7	EE3701	Electrical & Electronics Measuring Instruments Lab	0-0-3	2
8	EE3702	Control Systems Lab	0-0-3	2
9	EE3901	Seminar – III	0-0-3	1
Total Credits				25

III YEAR

II SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE3201	Power System Protection	4-0-0	4
2	EE3202	Power Semiconductor Drives	4-0-0	4
3	EC3205	Microprocessors and Microcontrollers	4-0-0	4
4	CS3001	Object Oriented Programming	4-0-0	4
5	BM3001/4001	Managerial Economics and Financial Analysis	4-0-0	4
6	HS3201	Soft Skills-II	2-0-0	1
7	EE3801	Power Electronics Lab	0-0-3	2
8	EE3802	Power Systems Lab	0-0-3	2
9	CS3601	Object Oriented Programming Lab	0-0-3	2
10	EE3000	Comprehensive Viva	0-0-3	1
11	EE3902	Seminar-IV	0-0-3	1
Total Credits				29

IV YEAR
I SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1	EE4101	Power Systems Operation and Control	4-1-0	4
2	EE4102	Utilization of Electrical Energy	4-0-0	4
3	EE441_	Elective-1	4-0-0	3
4	EE442_	Elective-2	4-0-0	3
5	EE451_	Elective-3	4-0-0	3
6	EE4701	Electrical Simulation Lab	0-0-3	2
7	EC4701	Microprocessors and Microcontrollers Lab	0-0-3	2
8	EE3900	Summer Internship		6
Total Credits				27

IV YEAR
II SEMESTER

S.No	Subject Code	Subject Name	L-T-P	C
1		Free Elective-1	4-0-0	3
2	EE4000	Comprehensive Viva		1
3	EE4800	Project	0-0-24	16
Total Credits				20

L-Lectures, T-Tutorials, P-Practicals, C-Credits

List of Electives:

Electives can be taken from any of the courses being offered which are expected to be a sub set of the list Electives given here.

Some of the electives also can be taken from the relevant ones from those being from other departments with the approval of the Head of the department

Elective-I

EE4411: RENEWABLE ENERGY SYSTEMS

EE4412: COMPUTER METHODS IN POWER SYSTEMS

EE4413: POWER QUALITY

EE4414: POWER SYSTEM DEREGULATION

Elective-II

EE4421: HIGH VOLTAGE ENGINEERING

EE4422: ARTIFICIAL NEURAL NETWORKS AND FUZZY SYSTEMS

EE4423: SPECIAL MACHINES

EE4424: DIGITAL CONTROL SYSTEMS

EE4425: HVDC TRANSMISSION

Elective-III

EE4531: SWITCH MODE POWER SUPPLIES

EE4532: SMART GRID

EE4533: RELIABILITY ENGINEERING

EE4534: FLEXIBLE AC TRANSMISSION SYSTEMS