



B. Tech Electronics and Communication Engineering, Batch:2014-2020

I Year – SEMESTER – I

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
MA1141	Engineering Mathematics-I	3-1-0	4
EC1101	Electronic Devices and Circuits	3-1-0	4
PY1101	Engineering Physics	3-1-0	4
EC1102	Electrical Technology	3-1-0	4
EC1701	Electronic Devices and Circuits Lab	0-0-3	2
EC1702	Electrical Technology Lab	0-0-3	2
PY1701	Engineering Physics lab	0-0-3	2
EG1701	English language Laboratory -I	0-0-3	2
Total Credits			24

I Year – SEMESTER – II

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC1301	Probability and Stochastic Process	3-1-0	4
EC1201	Analog Electronic Circuits - I	3-1-0	4
EC1202	Network Theory	3-1-0	4
EC1203	Signals and Systems	3-1-0	4
CS1108	Programming and Data Structures in C	3-1-0	4
EC1801	Analog Electronic Circuits - I Lab	0-0-3	2
CS1708	Programming and Data Structures in C Lab	0-0-3	2
EG1801	English language Laboratory -II	0-0-3	2
Total Credits			26

I Year – SEMESTER III

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC1204	Digital Electronics	3-1-0	4
EC1901	MATLAB and Simulink	0-0-3	2
EC1802	Digital Electronics Laboratory	0-0-3	2
EC1301	Linear Control System	3-1-0	4
MA1241	Engineering Mathematics- II	3-1-0	4



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Constituted under the Act 18 of 2008

Nuzvid campus, Krishna District

B. Tech Electronics and Communication Engineering, Batch: 2014-2020

II Year – SEMESTER – I

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC2101	Electro Magnetic Engineering	3-1-0	4
EC2102	Analog Communications	3-1-0	4
EC2103	VLSI	3-1-0	4
EC2104	Linear Integrated Circuits	3-1-0	4
EC2701	Analog Communications Lab	0-0-3	2
EC2702	VLSI Lab	0-0-3	2
EC2703	Analog Electronic Circuits - II Lab	0-0-3	2
EN2701	English language Laboratory -III	0-0-3	2
Total Credits			24

II Year – SEMESTER – II

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC2201	Digital Signal Processing	3-1-0	4
EC2202	Microprocessors and Microcontrollers	3-1-0	4
EC2203	Digital Communications	3-1-0	4
EC2204	RF and Microwave Engineering	3-1-0	4
EC2801	Microprocessors and Microcontrollers Lab	0-0-3	2
EC2802	Digital Communications Lab	0-0-3	2
EC2803	Digital Signal Processing Lab	0-0-3	2
EG2801	English language Laboratory -IV	0-0-3	2
Total Credits			24

II Year – SEMESTER-III

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC2901	RF & Microwave Lab	0-0-3	2
CS2301	Object oriented Programming	3-1-0	4
Total Credits			06



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Constituted under the Act 18 of 2008

Nuzvid campus, Krishna District

B. Tech Electronics and Communication Engineering, Batch: 2014-2020

III Year – SEMESTER – I

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC31__	Elective-I	3-1-0	4
EC31__	Elective-II	3-1-0	4
EC31__	Elective-III	3-1-0	4
EC31__	Free Elective-I	3-1-0	4
EC3700	Mini Project	0-0-8	4
Total Credits			20

III Year – SEMESTER – II

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC32__	Elective-IV	3-1-0	4
EC32__	Elective – V	3-1-0	4
EC32__	Elective – VI	3-1-0	4
EC32__	Free Elective – II	3-1-0	4
EC3800	Mini Project	0-0-4	4
Total Credits			20

III Year – SEMESTER-III

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC3900	Summer Internship	0-0-8	4
Total Credits			4



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Constituted under the Act 18 of 2008

Nuzvid campus, Krishna District

B. Tech Electronics and Communication Engineering, Batch: 2014-2020

IV Year – SEMESTER – I

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC41__	Elective – VII	3-1-0	4
EC41__	Elective – VIII	3-1-0	4
EC41__	Free Elective - III	3-1-0	4
EC4700	Project	0-0-12	6
Total Credits			18

IV Year – SEMESTER – II

COURSE STRUCTURE

Subject Code	Subject Name	L-T-P	Credits
EC42__	Elective –IX	3-1-0	4
EC42__	Free Elective-IV	3-1-0	4
EC42__	Environmental Science	3-1-0	4
EC4800	Project	0-0-12	6
EC4801	Community Service	0-0-2	2
Total			20

S.No	Semester	Credits
1	E1-SEM-I	24
2	E1-SEM-II	26
3	E1-SUM	16
4	E2-SEM-I	24
5	E2-SEM-II	22
6	E2-SUM	08
7	E3-SEM-I	20
8	E3-SEM-II	20
9	E3-SUM	04
10	E4-SEM-I	18
11	E4-SEM-II	20
Total		202



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Constituted under the Act 18 of 2008

Nuzvid campus, Krishna District

B. Tech Electronics & Communication Engineering

List of Electives:

Subject Code	Subject Name	L-T-P	Credits
EC3111	Computer Organization and Architecture	3-1-0	4
EC3112	Digital Image processing	3-1-0	4
EC3113	Digital VLSI Design	3-1-0	4
EC3121	Analog IC Design	3-1-0	4
EC3122	Antennas and Radio Wave Propagation	3-1-0	4
EC3123	Computer Networks	3-1-0	4
EC3131	Advanced Digital Communications	3-1-0	4
EC3132	Embedded Systems	3-1-0	4
EC3133	MEMS and Micro Systems	3-1-0	4
EC3241	Information Theory and Coding	3-1-0	4
EC3242	Principles of RADAR	3-1-0	4
EC3243	VLSI Design Verification and Testing	3-1-0	4
EC3251	Artificial Intelligence	3-1-0	4
EC3252	Digital IC Design	3-1-0	4
EC3253	Embedded System Software Testing	3-1-0	4
EC3254	Wireless Communication	3-1-0	4
EC3261	Adaptive signal Processing	3-1-0	4
EC3262	An Introduction to Electronic Systems Packaging	3-1-0	4
EC3263	Medical Image Analysis	3-1-0	4
EC3264	Satellite Communications	3-1-0	4
EC4171	Cooperative Communications	3-1-0	4
EC4172	Embedded system Design	3-1-0	4
EC4173	Low Power VLSI Circuits and Systems	3-1-0	4
EC4174	Optical Communication	3-1-0	4
EC4175	Pattern Recognition	3-1-0	4
EC4181	Advanced Digital Signal Processing	3-1-0	4
EC4182	Digital Voice and Picture Communications	3-1-0	4
EC4183	Error correcting Codes	3-1-0	4
EC4184	Neural Networks	3-1-0	4
EC4185	RF IC Design	3-1-0	4
EC4291	Detection and Estimation	3-1-0	4

EC4292	VLSI DSP	3-1-0	4
EC4293	Measurements and Instrumentation	3-1-0	4
EC4294	High performance Computer Architecture	3-1-0	4
EC4295	Introduction to Machine Learning	3-1-0	4