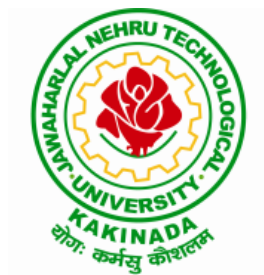


COURSE STRUCTURE

For

ELECTRONICS AND COMPUTER ENGINEERING

(Applicable for batches admitted from 2016-2017)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA
KAKINADA - 533 003, Andhra Pradesh, India

I Year - I Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – I	4	--	--	3
2-BS	MATHEMATICS-I (Differential Equations)	4	--	--	3
3-ES	MATHEMATICS-II (Numerical Methods and Complex Variables)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5-ES	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	1	--	3	3
7-HS	English - Communication Skills Lab -1	--	--	3	2
8-BS	Engineering Physics Laboratory	--	--	3	2
9-BS	Engineering Physics – Virtual Labs - Assignments	--	--	2	--
10-ES	Engineering Workshop& IT Workshop	--	--	3	2
Total Credits					24

I Year - II Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English – II	4	--	--	3
2-BS	MATHEMATICS-III (Linear Algebra and Vector Calculus)	4	--	--	3
3-BS	Engineering Chemistry	4	--	--	3
4-ES	Electrical and Mechanical Technology	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Data Structures	4	--	--	3
7-BS	Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab -2	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
Total Credits					24

II Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Electronic Devices and Circuits	4	--	--	3
2	Switching Theory and Logic Design	4	--	--	3
3	Signals and Systems	4	--	--	3
4	Network Analysis	4	--	--	3
5	Software Engineering	4	--	--	3
6	Managerial Economics & Financial Analysis	4	--	--	3
7	Electronic Devices and Circuits Lab	--	--	3	2
8	Data Structures Lab	--	--	3	2
Total Credits					22

II Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Pulse and Digital Circuits	4	--	-	3
2	Principles of Communications	4	--	-	3
3	Computer Organization	4	--	-	3
4	Object Oriented Programming	4	--	-	3
5	Control Systems	4	--	-	3
6	Management Science	4	--	-	3
7	Pulse & Digital Circuits and Communications LAB	-	--	3	2
8	OOPS LAB	-	--	3	2
Total Credits					22

III Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Linear I C Applications	4	--	--	3
2	Digital IC Applications	4	--	--	3
3	Computer Graphics	4	--	--	3
4	Computer Networks	4	--	--	3
5	Design & Analysis of Algorithms	4	--	--	3
6	IC Applications Lab	--	--	3	2
7	Computer graphics Lab	--	--	3	2
8	Algorithms Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
Total Credits					21

III Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	VLSI Design	4	--	--	3
2	Data Base Management Systems	4	--	--	3
3	Micro Processors & Micro Controllers	4	--	--	3
4	Operating Systems	4	--	--	3
5	Open Elective: 1. Data Mining 2. Industrial Robotics 3. Bio-Medical Engineering 4. Artificial Neural Networks	4	--	--	3
6	Computer Networks and Operating Systems Lab	--	--	3	2
7	Micro Processors & Micro Controllers Lab	--	--	3	2
8	VLSI Lab	--	--	3	2
MC	IPR & Patents	--	2	--	--
Total Credits					21

IV Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Systems Programming	4	--	--	3
2	Digital Signal Processing	4	--	--	3
3	Digital Image Processing	4	--	--	3
4	UNIX Programming	4	--	--	3
5	Elective I 1. Artificial Intelligence 2. Advanced Computer Architecture 3. Data Communication	4	--	--	3
6	Elective II 1. Web Design 2. Fuzzy Logic and Neural Networks 3. Structured Digital Design	4	--	--	3
7	Digital Signal Processing Lab	--	--	3	2
8	UNIX Programming Lab	--	--	3	2
Total Credits					22

IV Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Embedded Systems	4	--	--	3
2	Automata Theory & Compiler Design	4	--	--	3
3	Elective III 1. Language Processors 2. EMI/EMC 3. Data Ware Housing & Data Mining	4	--	--	3
4	Elective IV 1. Wireless Sensor Networks 2. Real Time Operating Systems 3. Network Security & Cryptography	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
Total Credits					24

Total Course Credits = 48+ 44 + 42 + 46 = 180