

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533 003, Andhra Pradesh, India DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE STRUCTURE AND SYLLABUS

For

B. TECH ELECTRICAL AND ELECTRONICS ENGINEERING

(Applicable for batches admitted from 2020-2021)



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



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I B. Tech I SEMESTER

Sl. No	Course Components	Subjects	L	Т	P	Credits
1	HSMC	Communicative English	3	0	0	3
2	BSC	Mathematics-I (Calculus and Differential Equations)	3	0	0	3
3	BSC	Mathematics-II (Linear Algebra and Numerical Methods)	3	0	0	3
4	ESC	Programming for Problem Solving Using C	3	0	0	3
5	ESC	Engineering Drawing & Design	1	0	4	3
6	HSMC	English Communication Skills Laboratory	0	0	3	1.5
7	BSC	Electrical Engineering Workshop	0	1	3	1.5
8	ESC	Programming for Problem Solving Using C Lab	0	0	3	1.5
		Total Credits 19.5				

I B. Tech II SEMESTER

Sl. No	Course Components	Subjects	L	Т	P	Credits		
1	BSC	Mathematics-III (Vector Calculus, Transforms and PDE)	3	0	0	3		
2	BSC	Applied Physics	3	0	0	3		
3	ESC	Data Structures Through C	3	0	0	3		
4	ESC	Electrical Circuit Analysis -I	3	0	0	3		
5	ESC	Basic Civil and Mechanical Engineering	3	0	0	3		
6	BSC	Applied Physics Lab	0	0	3	1.5		
7	ESC	Basic Civil and Mechanical Engineering Lab	0	0	3	1.5		
8	ESC	Data Structures through C Lab	0	0	3	1.5		
9	Mandatory Course	Constitution of India	2	0	0	0		
	Total Credits			19.5				



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II B. Tech I Semester

Sl. No	Course Components	Subjects	L	Т	P	Credits
1	BSC	Mathematics – IV	3	0	0	3
2	PCC	Electronic Devices and Circuits	3	0	0	3
3	PCC	Electrical Circuit Analysis –II	3	0	0	3
4	PCC	DC Machines and Transformers	3	0	0	3
5	PCC	Electro Magnetic Fields	3	0	0	3
6	PCC	Electrical Circuits Lab	0	0	3	1.5
7	PCC	DC Machines and Transformers Lab	0	0	3	1.5
8	PCC	Electronic Devices and Circuits lab	0	0	3	1.5
9	SC	Skill oriented course- Design of Electrical Circuits using Engineering Software Tools	0	0	4	2
10	MC	Professional Ethics & Human Values	2	0	0	0
Total Credits 21.5						

II B. Tech II Semester

Sl. No	Course Components	Subjects	L	Т	P	Credits		
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1	ESC	Python Programming	3	0	0	3		
2	PCC	Digital Electronics	3	0	0	3		
3	PCC	Power System-I	3	0	0	3		
4	PCC	Induction and Synchronous Machines	3	0	0	3		
5	HSMC	Managerial Economics & Financial Analysis	3	0	0	3		
6	ESC	Python Programming Lab	0	0	3	1.5		
7	PCC	Induction and Synchronous Machines Lab	0	0	3	1.5		
8	PCC	Digital Electronics Lab	0	0	3	1.5		
9	SC	Skill oriented course- IoT Applications of Electrical Engineering	0	0	4	2		
	Total Credits			21.5				