

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

COMPUTER NETWORKS & INFORMATION SECURITY
(Applicable for batches admitted from 2016-2017)



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

I Semester

S. No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	NETWORK MANAGEMENT CONCEPTS AND PRACTICES	4	--	3
3	ADHOC AND SENSOR NETWORKS	4	--	3
4	NETWORK PROGRAMMING	4	--	3
5	MOBILE COMPUTING	4	--	3
6	WEB TECHNOLOGIES	4	--	3
7	CNIS LAB 1	--	3	2
Total Credits				20

II SEMESTER

S.No.	SUBJECT	L	P	C
1	ADVANCED COMPUTER COMMUNICATIONS	4	--	3
2	BIG DATA ANALYTICS	4	--	3
3	TCP / IP	4	--	3
4	MANETS	4	--	3
5	Elective – 1 1. INTERNET OF THINGS 2. HACKING TECHNIQUES 3. ARTIFICIAL INTELLIGENCE 4. ADVANCED COMPUTER ARCHITECTURE	4	--	3
6	Elective - 2 1. VANETS 2. ISDN & BROADBAND ISDN 3. FIREWALLS & VPNs 4. WIRELESS NETWORKS & SECURITY	4	--	3
7	CNIS LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

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For

COMPUTER SCIENCE & ENGINEERING

(Applicable for batches admitted from 2016-2017)



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KAKINADA - 533 003, Andhra Pradesh, India

I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
5	Elective – 1 1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
6	Elective – 2 1. IMAGE PROCESSING 2. PARALLEL ALGORITHMS 3. CLOUD COMPUTING 4. MOBILE COMPUTING	4	--	3
7	CSE LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

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For

COMPUTER SCIENCE & TECHNOLOGY

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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES	4	--	3
2	WEB TECHNOLOGIES	4	--	3
3	PARALLEL ALGORITHMS	4	--	3
4	DATA MINING AND KNOWLEDGE DISCOVERY	4	--	3
5	CYBER SECURITY	4	--	3
6	DISTRIBUTED SYSTEMS	4	--	3
7	CST LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	BIG DATA ANALYTICS	4	--	3
2	PYTHON PROGRAMMING	4	--	3
3	ADVANCED UNIX PROGRAMMING	4	--	3
4	COMPILER DESIGN	4	--	3
5	Elective – 1 1. ADVANCED GRAPH THEORY 2. SOFT COMPUTING 3. INFORMATION RETRIEVAL SYSTEMS 4. ADVANCED COMPUTER ARCHITECTURE	4	--	3
6	Elective - 2 1. DISTRIBUTED SYSTEMS 2. INTERNET OF THINGS 3. MACHINE LEARNING 4. CLOUD COMPUTING	4	--	3
7	CST LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

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COMPUTER SCIENCE

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I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES	4	--	3
2	FORMAL LANGUAGES AND AUTOMATA THEORY	4	--	3
3	COMPUTER ORGANIZATION	4	--	3
4	DATABASE INTERNALS	4	--	3
5	ADVANCED OPERATING SYSTEM	4	--	3
6	DATA WAREHOUSING AND DATAMINING	4	--	3
7	CS LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	BIG DATA ANALYTICS	4	--	3
3	WEB TECHNOLOGIES	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
5	Elective – 1 1. SOFTWARE ENGINEERING 2. ARTIFICIAL INTELLIGENCE 3. COMPILER DESIGN 4. MACHINE LEARNING	4	--	3
6	Elective - 2 1. OBJECT ORIENTED ANALYSIS AND DESIGN 2. PARELLEL ALGORITHMS 3. CLOUD COMPUTING 4. IMAGE PROCESSING	4	--	3
7	CS LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

INFORMATION TECHNOLOGY
(Applicable for batches admitted from 2016-2017)



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KAKINADA - 533 003, Andhra Pradesh, India

I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES	4	--	3
2	ADVANCED GRAPH THEORY	4	--	3
3	PARALLEL ALGORITHMS	4	--	3
4	DATA MINING AND KNOWLEDGE DISCOVERY	4	--	3
5	ADVANCED COMPUTER NETWORKS	4	--	3
6	WEB TECHNOLOGIES	4	--	3
7	IT LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED UNIX PROGRAMMING	4	--	3
2	CYBER SECURITY	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	CLOUD COMPUTING	4	--	3
5	Elective – 1 1. ADHOC & SENSOR NETWORKS 2. SEMANTIC WEBSERVICES 3. PRINCIPLES OF PROGRAMMING LANGUAGES 4. INTERNET OF THINGS	4	--	3
6	Elective - 2 1. MACHINE LEARNING 2. INFORMATION RETRIEVAL SYSTEM 3. IMAGE PROCESSING & PATTERN RECOGNITION 4. SOFTWARE TESTING METHODOLOGIES	4	--	3
7	IT LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

NEURAL NETWORKS

(Applicable for batches admitted from 2016-2017)



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

I Semester

S.No.	SUBJECT	L	P	C
1	ARTIFICIAL INTELLIGENCE	4	--	3
2	DATA WAREHOUSING AND MINING	4	--	3
3	WEB TECHNOLOGIES	4	--	3
4	NATURAL LANGUAGE PROCESSING	4	--	3
5	CYBER SECURTY	4	--	3
6	COMPUTATIONAL INTELLIGENCE	4	--	3
7	NN LAB 1	--	3	2
Total Credits				20

II Semester

S.No.	SUBJECT	L	P	C
1	MACHINE LEARNING	4	--	3
2	ARTIFICIAL NEURAL NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED ALGORITHMS	4	--	3
5	Elective – 1 1. OBJECT ORIENTED ANALYSIS AND DESIGN 2. SOFT COMPUTING 3. COGNITIVE SYSTEMS 4. EXPERT SYSTEMS	4	--	3
6	Elective - 2 1. COMPUTER VISION AND IMAGE PROCESSING 2. CLOUD COMPUTING 3. DECISION SUPPORT SYSTEMS 4. INFORMATION STORAGE MANAGEMENT	4	--	3
7	NN LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

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

I Semester

S.No.	SUBJECT	L	P	C
1	SOFTWARE REQUIREMENTS AND ESTIMATION	4	--	3
2	SOFTWARE METRICS AND REUSE	4	--	3
3	SOFTWARE PROJECT AND PROCESS MANAGEMENT	4	--	3
4	WEB TECHNOLOGIES	4	--	3
5	BIG DATA ANALYTICS	4	--	3
6	SCRIPTING LANGUAGES	4	--	3
7	SE LAB 1	--	3	2
Total Credits				20

II Semester

S.NO	SUBJECT	L	P	C
1	SOFTWARE ARCHITECTURE AND DESIGN PATTERNS	4	--	3
2	SOFTWARE QUALITY ASSURANCE AND TESTING	4	--	3
3	CYBER SECURITY	4	--	3
4	SERVICE ORIENTED ARCHITECTURES	4	--	3
5	Elective – 1 1. SECURE SOFTWARE ENGINEERING 2. SYSTEMS ENGINEERING 3. ERP & SUPPLY CHAIN MANAGEMENT 4. E-COMMERCE	4	--	3
6	Elective - 2 1. USER INTERFACE DESIGN 2. CLOUD COMPUTING 3. SOFTWARE DEFINED NETWORKS 4. INTERNET OF THINGS	4	--	3
7	SE LAB 2	--	3	2
Total Credits				20

III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar – I	--	--	2
3	Project Work – Part - I	--	--	16
Total Credits				20

IV Semester

S. No.	Subject	L	P	Credits
1	Seminar – II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20