CIVIL ENGINEERING

For

B.Tech., FOUR YEAR DEGREE COURSE

(Applicable for the batches admitted from 2013-14)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533003, ANDHRA PRADESH, INDIA.

T S. No. Subject P Credits Environmental 3 1 3+1* ___ Engineering – II Prestressed Concrete 2 3+1* __ 3 3 Construction Technology and Management 3+1* 3 ---4 3+1* 3 Water Resources Engineering-II ----3 5 **Remote Sensing and GIS Applications** 3+1* ___ 3+1* 3 6 **ELECTIVE - I** ___ Environmental 7 2 3 ___ **Engineering Lab** 8 GIS & CAD Lab 3 2 __ **Total Credits** 22

IV Year – I SEMESTER

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Estimating, Specifications & Contracts	3+1*		3
2	ELECTIVE –II	3+1*		3
3	ELECTIVE – III	3+1*		3
4	ELECTIVE IV	3+1*		3
5	Project Work			9
	Total Credits			21

OPEN ELECTIVE:

- a) Environmental Pollution and Control
- b) Disaster Management
- c) Industrial Water & Waste Water Management
- d) Architecture and Town Planning
- e) Finite Element Method
- f) Green Technologies

Elective-I:

- a) Ground Improvement Techniques
- b) Air Pollution and Control
- c) Matrix methods of Structural Analysis
- d) Urban Hydrology
- e) Advanced Surveying
- f) Interior Designs and Decorations

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.

ACADEMIC REGULATIONS COURSE STRUCTURE AND

DETAILED SYLLABUS

ELECTRICAL AND ELECTRONICS ENGINEERING

For

B.Tech., FOUR YEAR DEGREE COURSE (Applicable for the batches admitted from 2013-14)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533003, ANDHRA PRADESH, INDIA. Electrical and Electronics Engineering 18

2	Microprocessors & Microcontrollers	3+1		3
3	Utilization of Electrical Energy	3+1		3
4	Power System Analysis	3+1		3
5	Power Semiconductor Drives	3+1		3
6	Management Science	3+1		3
7	Power Electronics Lab		3	2
8	Electrical Measurements Lab		3	2
	Total Credits			22

IV Year – I SEMESTER

S. No.	Subject	Т	P	Credits
1	Renewable Energy Sources and Systems	3+1	-	3
2	HVAC & DC Transmission	3+1	-	3
3	Power System Operation & Control	3+1	-	3
4	Open Elective	3+1	-	3
5	Elective – I	3+1	-	3
6	Microprocessors & Microcontrollers Lab	-	3	2
7	Electrical Simulation Lab	-	3	2
8	Power systems lab		3	2
	Total Credits			21

IV Year – II SEMESTER

S. No.	Subject	T	P	Credits
1	Digital Control Systems	3+1	-	3
2	Elective – II	3+1	-	3
3	Elective – III	3+1	-	3
4	Elective – IV	3+1	-	3
5	Project	-	-	9
	Total Credits			21

Open Elective:

- 1. Energy Audit, Conservation and Management
- 2. Instrumentation
- 3. Non Conventional Sources of Energy
- 4. Optimization Techniques

Dr. N. SAMBASIVA RAO

B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TECHNOLOGY (KN)

MECHANICAL ENGINEERING

For

B.Tech., FOUR YEAR DEGREE COURSE (Applicable for the batches admitted from 2013-14)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA KAKINADA – 533003, ANDHRA PRADESH, INDIA.

III Year - II SEMESTER

S. No.	Subject	Т	P	Credits
1	Operations Research	3+1*	-	2
2	Interactive Computer Graphics	3+1*	-	2
3	Design of Machine Members- II	3+1*		3
4	Robotics	3+1*	-	3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*	-	3
7	Departmental Elective - I	3+1*	-	3
8	Heat Transfer Lab	511	3	5
	Total Credits		3	2 23

IV Year - I SEMESTER

Subject	Т	P	Credits
Automobile Engineering	-		-
CAD/CAM		-	3
	19.000	-	3
			3
Open Elective		-	3
Departmental Elective - II	100		3
Simulation Lab	3+1+	2	3
Design/Fabrication Project			2
6		4	21
	Automobile Engineering CAD/CAM Finite Element Methods Unconventional Machining Processes Open Elective Departmental Elective – II	Automobile Engineering3+1*CAD/CAM3+1*Finite Element Methods3+1*Unconventional Machining Processes3+1*Open Elective3+1*Departmental Elective – II3+1*Simulation LabDesign/Fabrication Project	Automobile Engineering1Automobile Engineering3+1*CAD/CAM3+1*Finite Element Methods3+1*Unconventional Machining Processes3+1*Open Elective3+1*Departmental Elective – II3+1*Simulation Lab3Design/Fabrication Project2

IV Year - II SEMESTER

S. No.	Subject	Т	P	Credits
1	Production Planning and Control	3+1*		creuns 2
2	Green Engineering Systems	3+1*	-	3
3	Departmental Elective - III	3+1*		2
4	Departmental Elective – IV	3+1*	-	3
5	Project Work	5+1.		3
19-19	Total Credits		100	9
	rotal Credits			21

OPEN ELECTIVE:

- 1. MEMS
- 2. Nanotechnology

RI Institute of Technology POTHAVARAPPADU (VIII) Agiripalli (Mdl), Krishna Dist.

ACADEMIC REGULATIONS **COURSE STRUCTURE** AND

DETAILED SYLLABUS

ELECTRONICS &

COMMUNIC&TION

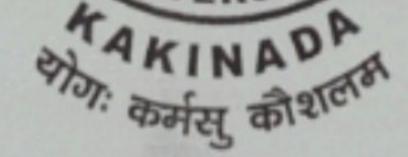
ENGINEERING

For

B.Tech., FOUR YEAR DEGREE COURSE

(Applicable for the batches admitted from 2013-14)





JAWAHARLAL NEHRU TECHNOLOGICAL **UNIVERSITY KAKINADA** KAKINADA – 533003, ANDHRA PRADESH, INDIA.

Electronics & Communication Engineering 19

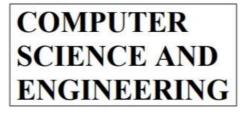


IV Year - I SEMESTER

S. No.	Subject	T	P	Credits
1	VLSI Design	3+1		3
2	Computer Networks	3+1		3
3	Digital Image Processing	3+1		3
4	Computer Architecture & Organization	3+1		3
5	 Elective – I 1. Electronic Switching Systems 2. Analog IC Design 3. Object Oriented Programming & O S 4. Radar Systems 5. Advanced Computer Architecture 	3+1	-	3
6	 Elective – II 1. Optical Communication 2. Digital IC Design 3. Speech Processing 4. Artificial Neural Network & Fuzzy Logic 5. Network Security & Cryptography 	3+1	-	3
7	VLSILab	-	3	2
8	Microwave Engineering Lab	-	3	2
	Total Credits			22

IV Year - II SEMESTER

S. No.	Subject	T	P	Credits
1	Cellular Mobile Communication	3+1	12	3
2	Electronic Measurements and Instrumentation	3+1		3
3	Elective III 1. Satellite Communication 2. Mixed signal Design 3. Embedded systems 4. RF Circuit Design 5. Cloud Computing	3+1		3
4	Elective IV 1.Wireless Sensors and Networks 2.System on Chip 3.Low Power IC Design 4.Bio-Medical Instrumentation 5.EMI/EMC	3+1		3
5	Project & Seminar			9
	Total Credits			21



For

COMPUTER SCIENCE AND ENGINEERING FOUR DEGREE COURSE

(Applicable for batches admitted from 2013-2014)



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA

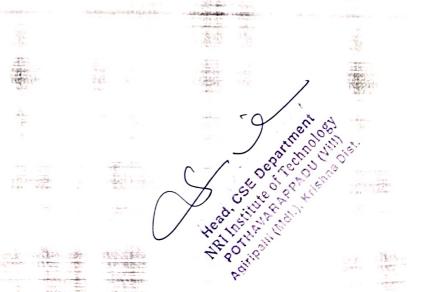
KAKINADA - 533 003, Andhra Pradesh, India

IV Year – II SEMESTER

S. No.	Subject	Т	P	Credits
1	Elective – III	4	-	3
2	Elective – IV	4	-	3
3	Distributed Systems	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
	Total Credits			21

Elective – I:

- i) Software Testing Methodologies
- ii) Simulation Modeling
- iii) Information Retrieval Systems
- iv) Artificial Intelligence
- v) Multimedia Computing
- vi) High Performance Computing
- Elective II:
- i. Digital Forensics
- ii. Hadoop and Big Data
- iii. Software Project Management
- iv. Machine Learning
- v. Advanced Databases
- Elective III:
- i) Human Computer Interaction
- ii) Advanced Operating Systems
- iii) Mobile Adhoc & Sensor Networks
- iv) Pattern Recognition
- v) Digital Image Processing
- vi) Micro processers and Multi Core Systems Elective-IV:
- i) Embedded and Real Time Systems
- ii) Neural Networks & Soft Computing
- iii) Social Networks and the Semantic Web
- iv)Cloud Computing



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INFORMATION TECHNOLOGY

For INFORMATION TECHNOLOGY FOUR DEGREE COURSE (Applicable for batches admitted from 2013-2014)



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

S. No.	Subject	Т	P	Credits
1	Cryptography and Network Security	4	-	3
2	UML & Design Patterns	4	-	3
3	Mobile Computing	4	-	3
4	Elective –I	4	-	3
5	Elective – II	4	-	3
6	UML & Design Patterns Lab	-	3	2
7	Mobile Application Development Lab	-	3	2
8	Software Testing Lab	-	3	2
9	Hadoop & BigData Lab	-	3	2
	Total Credits			23

IV Year – I SEMESTER

IV Year – II SEMESTER

S. No.	Subject	Т	P	Credits
1	Elective – III	4	-	3
2	Distributed Systems	4	_	3
3	Mathematical Opimization (LP, Scheduling, Simulation, QT, Markov analysis, NLP, PERT CPM Network related problems etc)	4	-	3
4	Management Science	4	-	3
5	Project	-	-	9
	Total Credits			21

Elective – I:

- i) Embedded and Real Time Systems
- ii) Information Retrieval Systems
- iii) Multimedia Computing

Elective – II:

- i. Hadoop and Big Data
- ii. Software Project Management
- iii. Computer Vision
- iv. Advanced Databases

Elective – III:

i) Human Computer Interaction

ii) Advanced Operating Systems

iii)Mobile Adhoc & Sensor Networks

iv)Pattern Recognition

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Head, IT Department NRI Institute of Technology POTHAVARAPPADU (V) Agiripalli (M), Krishna Dist

For

CIVIL ENGINEERING

M.Tech. - STRUCTURAL ENGINEERING



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

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2013-14

III SEMESTER

20

1	Seminar		—	2
2	Dissertation / Thesis	_	-	18
	Total			20

IV SEMESTER

1	Seminar	 	2
2	Dissertation / Thesis	 —	18
-	Total		20

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.

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For M.Tech: EEE

Common Specializations:

- I. Power Electronics
- **II.** Power Industrial Drives
- **III.** Power and Industrial Drives
- **IV.** Power Electronics and Electrical Drives
- V. Power Electronics and Drives
- VI. Power Electronics and systems
- **VII. Electrical Machines and Drives**



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

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M. Tech - PED - RI3

2013-14

III SEMESTER

1	Seminar – I	-	-	2
2	Project Work - I	_	—	18
	Total			20

IV SEMESTER

1	Seminar – II		-	2
2	Project Work - II	_	-	18
50	Total			20

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D. MISTE Controller of Examinations & Professor or F NRI INSTITUTE OF TECHNOLOGY (Kar)

For

M.Tech. MECHANICAL BRANCH

Specialization :

THERMAL ENGINEERING



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

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	ADVANCED AUTOMOBILE ENGG			
6	ELECTIVE- IV			
	THERMAL MEASUREMENTS AND			
	PROCESS CONTROLS	4	Û	3
	CRYOGENIC ENGINEERING			
	JET PROPULSION AND ROCKETRY			
	EQUIPMENT DESIGN FOR THERMAL SYSTEMS			
7	THERMAL SYSTEMS DESIGN LAB	Ð	6	4
	TOTAL			22

III SEMESTER

1	SEMINAR - I	0.	3	2
2	COMPREHENSIVE VIVA VOCE			2
33	PROJECT - PART I			14
	TOTAL			18

IV SEMESTER

and the second division of the second divisio		SEMINAR -II	0	3	2
Second and second s		PROJECT PART II & VIVA VOCE			18
	<u></u>	TOTAL			20

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Head, Mechanical Department NRI Institute of Technology POTHAVARAPPADU (Vill) Agiripalli (Mdl), Krishna Dist.

For

ECE BRANCH

COMMONFOR

DIGITAL ELECTRONICS AND COMMUNICATION SYSTEMS ELECTRONICS & COMMUNICATION ENGINEERING DIGITAL ELECTRONICS AND COMMUNICATION ENGINEERING



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

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Specialization: Communication Systems COURSE STRUCTURE

I SEMESTER

S.No	Name of the Subject	Ti	P	C
1	1. Digital System Design	4		3
2	2. Detection & Estimation Theory	4		3
3	3. Digital Data Communications	4		3
4	4. Advanced Digital Signal Processing	4	1.	3
5	Elective I	4		3
	1. Transform Techniques			
4. 4.	2. VLSI Technology & Design			
6	Elective II	1	1	
	1. Statistical Signal Processing	4	-	3
	2. Optical Communication Technology			·
7	Laboratory			
	1. Design & Simulation Lab	-	3	2
	TOTAL			20

II SEI	MESTER			
1	1. Coding Theory & Applications	4	- 1	3
2	2. Embedded Real Time Operating Systems	4	-	3
3	3. Image and Video Processing	4		3
4	4. Wireless Communications & Networks	4	-	3
5	Elective III			°
	1. CMOS Analog & Digital IC Design	4		3
	2. Advanced Computer Architecture			
6	Elective IV			
-	1. DSP Processors and Architectures	4		3
	2. EMI / EMC			3
17	Laboratory.		21	2 1
	1. Advanced Communications Laboratory	-	9	

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- 111 -	- SEMESTER			
1	Seminar	-	-	2
2	Project	· · · · · ·	-	18
	Total			20

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IV - SEMESTER

1	Seminar	-	-	2
2	Project (Continued)	-	-	18
	Total			20

The project will be evaluated at the end of the IV Semester

Head, ECE Department NRI Institute of Technolog. POTHAVARAPPADU (VIII) Agiripalli (Mdl), Krishna Dist.

For

COMPUTER SCIENCE ENGINEERING BRANCH

COMPUTER SCIENCE



JAWAHARLAL NEHRU TECHNOLOGY UNIVERSITY KAKINADA KAKINADA - 533 003, Andhra Pradesh, India 10000

20				2013-1
III S	EMESTER			
S.N	0 SUBJECT	L	Р	С
1	COMPREHENSIVE VIVA	-		2
2	SEMINAR-I	-		2
3	PROJECT WORK PART - I	-	—	16
	TOTAL			20

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IV SEMESTER

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S.NO	S.NO. SUBJECT		Ρ	С
1	SEMINAR-II			2
2	PROJECT WORK PART - II	—		18
	TOTAL			20

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COURSE STRUCTURE AND SYLLABUS

For

CIVIL ENGINEERING (Applicable for batches admitted from 2016-2017)



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

IV Year - I Semester

S. No.	Subjects	L	Т	Р	Credits
1	Environmental Engineering - II	4			3
2	Water Resource Engineering - II	4			3
3	Geotechnical Engineering - II	4			3
4	Remote Sensing & GIS Applications	4			3
5	Elective I i. Finite Element Methods ii. Ground Improvement Techniques iii. Air Pollution & Control iv. Urban Hydrology v. Traffic Engineering	4			3
6	Elective II i. Advanced Structural Engineering ii. Advanced Foundation Engineering iii.Environmental Impact Assessment & Management iv. Ground Water Development v. Pavement Analysis and Design	4			3
7	IPR & Patents		2		
8	GIS & CAD Lab			2	2
9	Irrigation Design & Drawing			2	2
	Total Credits				22

IV Year - II Semester

S. No.	Subjects	L	Т	P	Credits
1	Estimation Specification & Contracts	4			3
2	Construction Technology & Management	4			3
3	Prestressed Concrete	4			3
4	 Elective III i. Bridge Engineering ii. Soil Dynamics and Foundations iii. Solid and Hazardous Waste Management iv. Water Resources Systems Planning v. Urban Transportation Planning Engg 	4			3
5	Seminar on Internship Project		3		2
6	Project				10
	Total Credits				24

Total Course Credits = 48+44 + 42 + 46 = 180 <u>SYLLABUS</u>

Head of The Department CIVIL ENGINEERING NRI Institute of Technology

COURSE STRUCTURE AND SYLLABUS

For

ELECTRICAL AND ELECTRONICS ENGINEERING (Applicable for batches admitted from 2016-2017)



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

IV Year – I Semester

e

S. No	Subjects	L	Т	Р	Credits
1	Utilization of Electrical Energy	4			3
2	Linear IC Applications	4			3
3	Power System Operation & Control	4			3
4	Switchgear and Protection	4			3
5	 5 Elective – I: Electrical Machine Modeling and Analysis Advanced Control Systems Programmable Logic Controllers& Applications Instrumentation 				3
6	Elective – II:1. Optimization Techniques2. Electric Power Quality3. Special Electrical Machines	4			3
7	Electrical Simulation Laboratory			2	2
8	Power Systems & Simulation Laboratory			2	2
	Total Credits				22

IV Year - II Semester

S. No	Subjects	L	Т	Р	Credits
1	Digital Control Systems	4			3
2	HVDC Transmission				3
3	Electrical Distribution Systems	4			3
4	 <u>Elective – III:</u> 1. High Voltage Engineering 2. Flexible Alternating Current Transmission Systems 3. Power System Reforms 	4			3
5	Seminar		3		2
6	Project				10
	Total Credits				24

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TECHNOLOGY (KN)

COURSE STRUCTURE AND SYLLABUS

For

MECHANICAL ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

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IV Year - 1 Semester

S. NO	Subjects	L	TT	P	C-R.
1	Mechatronics	4			Credits
2	CAD/CAM	4			3
3	Finite Element Methods	4	erretaria de constata En s	الم	3
4	Power Plant Engineering	4		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1996 - 1996 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	3
5	Elective 1 1. Computational Fluid Dynamics 2. Condition Monitoring 3. Additive Manufacturing	4	**	antonina di orgina di antoni ana su antoni anta	3
6	Elective II 1. Advanced Materials 2. Design for Manufacture 3. Gas Dynamics & Jet Propulsion	4		**	3
7	CAD/CAM Lab			2	2
8	Mechatronics Lab			2	2
	Total Credits				22

IV Year - II Semester

S. No.	Subjects	L	Т	Р	A
1	Production Planning and Control	4		<u> </u>	Credits
T ₂	Unconventional Machining Processes	4			3
3	Automobile Engineering	4			
4	Elective III 1. Thermal Equipment Design 2. Non Destructive Evaluation 3. Quality and Reliability Engineering	4			3
5	Seminar	¥.9	3	ndenan daga kanan yang berakan y Menang	na n
6	Project	NC IN THE REPORT OF T	*.*	na na manana na mana na mana na Na ma	10
	Total Credits			a new constraints and a second se	24

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

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Nad, Mechanical Department Niki Iostitute of Teshnology POTHAVARAPPADU (Vili) Agiripalii (Mdi), Krishna Dist

COURSE STRUCTURE AND SYLLABUS

For

ELECTRONICS AND COMMUNICATION ENGINEERING (Applicable for batches admitted from 2016-2017)



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

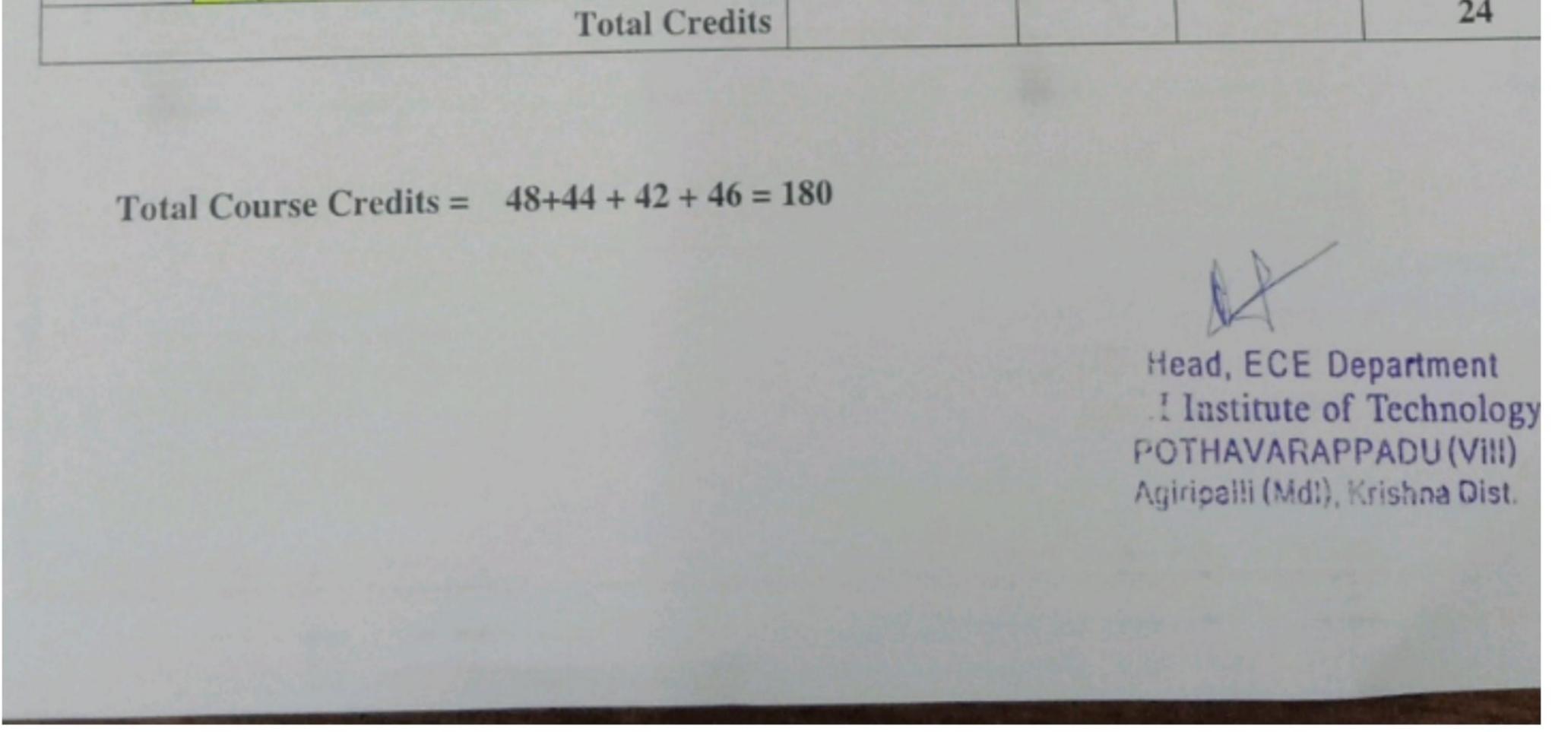


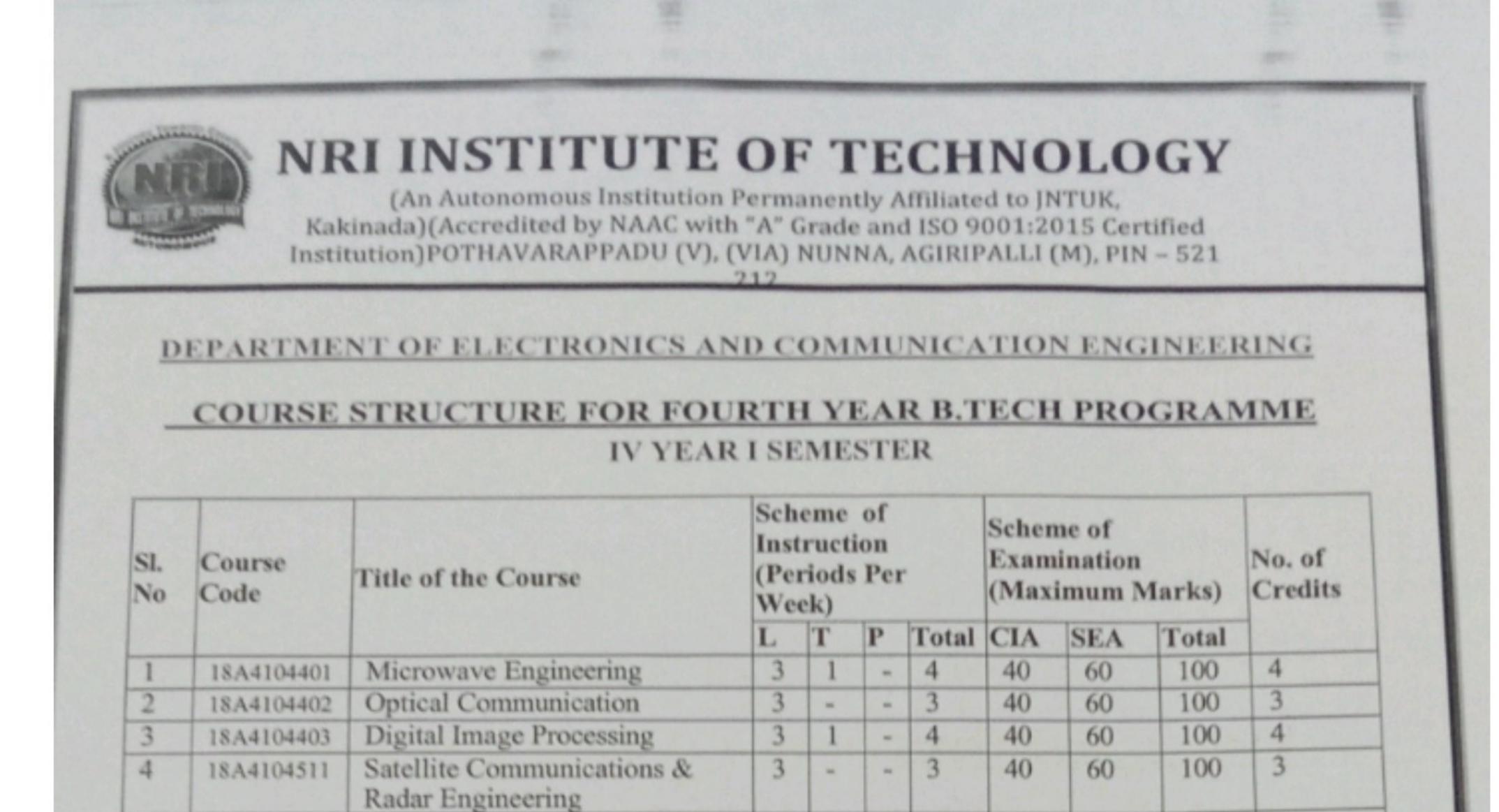
IV Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Radar Systems	4			3
2	Digital Image Processing	4			3
3	Computer Networks	4			3
4	Optical Communications	4			3
5	Elective I 1. TV Engineering 2. Electronic Switching Systems 3. System Design through Verilog	4			3
6	Elective II 1.Embedded Systems 2. Analog IC Design 3.Network Security & Cryptography	4			3
7	Micro Wave Engineering & Optical Lab			2	2
8	Digital Signal Processing Lab			2	2
	Total Credits				22

IV Year - II Semester

S.No.	Subjects	L	T	Р	Credits
1	Cellular Mobile Communications	4			3
2	Electronic Measurements and Instrumentation	4			3
3	Satellite Communications	4			3
4	Elective III 1.Wireless sensors & Networks 2. Digital IC Design 3. Operating Systems	4			3
5	Seminar		3		2
6	Project				10

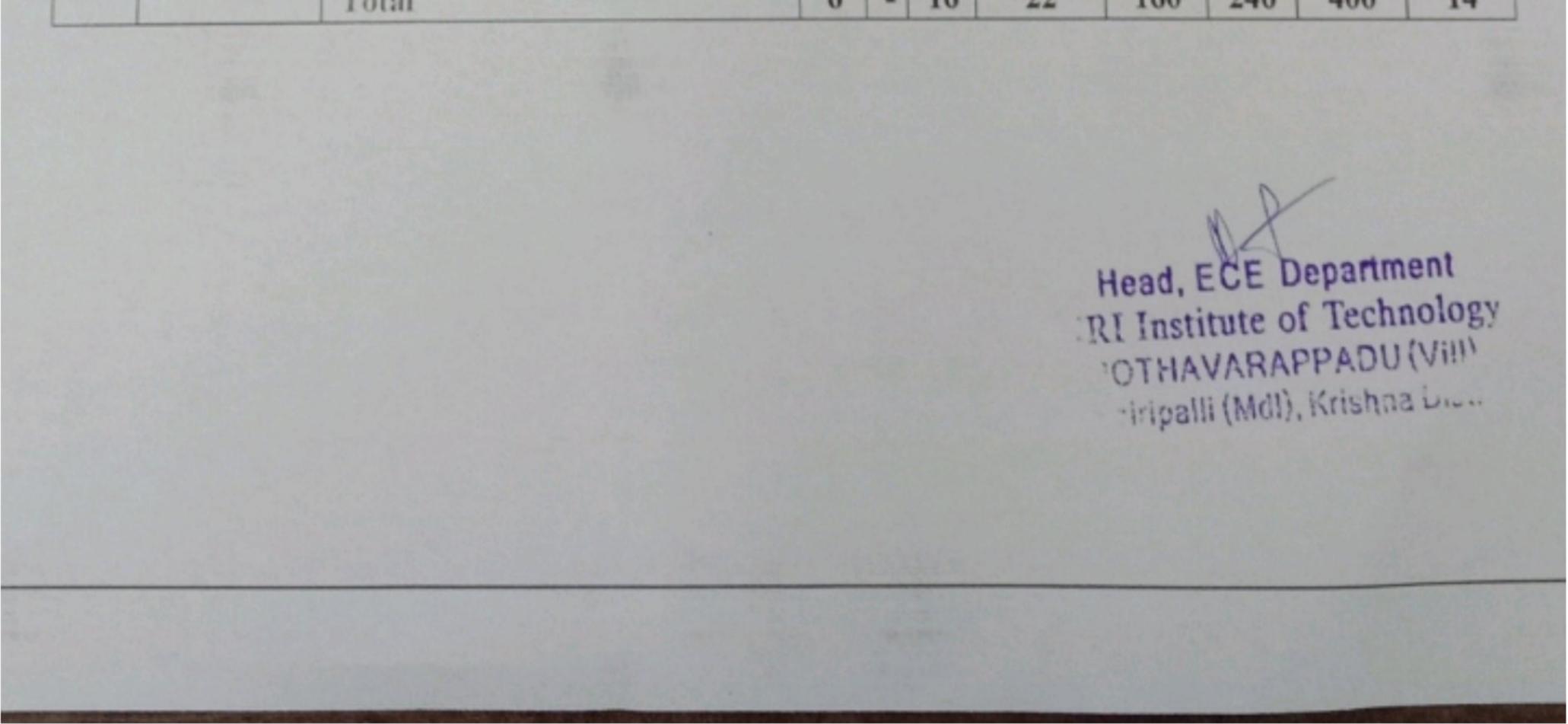




5	18A4104513	Embedded System Design	3	-	-	3	40	60	100	3
	18A4104522	Operating Systems	-							
	18A4104521	Data Communications								
6	18A4100803	Indian Constitution	2	-	-	2	40	60	100	0
7	18A4104491	Microwave Engineering & OC Lab	-	-	2	2	40	60	100	1
8	18A4104791	Mini Project	-	-	8	8		A Providence		4
		Total	17	1	14	32	320	480	800	22

IV YEAR II SEMESTER

Sl. No	Course	Title of the Course	Ins	Scheme of Instruction (Periods Per Week)			Scheme of Examination (Maximum Marks)			No. of Credit
	Code		L	T	Р	Total	CIA	SEA	Total	s
1	18A4204511	Wireless Communication Networks	3	-	-	3	40	60	100	3
2	18A4204521	Computer Networks	3	-	-	3	40	60	100	3
	18A4204522	Internet Of Things And Applications								
3	18A4204791	Main Project And Seminar	-		16	16	80	120	200	8
	Part and	Total	6	-	16	22	160	240	400	14



COURSE STRUCTURE AND SYLLABUS

For

COMPUTER SCIENCE AND ENGINEERING (Applicable for batches admitted from 2016-2017)



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

IV Year - I Semester

13

S. No.	Subjects	L	Т	P	Credits
1	Cryptography and Network Security	4			3
2	Software Architecture & Design Patterns	4			3
3	Web Technologies	4			3
4- HS	Managerial Economics and Financial Analysis	4			3
5	Elective-I i. Big Data Analytics ii. Information Retrieval Systems iii. Mobile Computing	4			3
6	Elective-II i. Cloud Computing ii. Software Project Management iii. Scripting Languages	4	-		3
7	Software Architecture & Design Patterns Lab			3	2
8	Web Technologies Lab			3	2
	Total Credits				22

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IV Year - II Semester

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	S. No.		Subjects		\mathbf{L}	Т	P	Credits
- T	1	Distributed S	ystems		4			3
	2- HS	Management	Science		4			3
Ī	3	Machine Lea	rning		4			3
	4	Elective-III i.Concurren ii.Artificial iii. Operatic	-	amming	4			3
3	5	Seminar	In the state	and the second s	······································	1-15201	hittin and	14. I
	6	Project	and the second sec	bound the second state of		Comparent Comparent	The second se	2
100		erte alle	· · · · · · · · · · · · · · · · · · ·	Total Credits	The state	「小学生」		10
1000	1	and a second	-111. (S	Total Credits	13 V 21/201			24
	4		ALL VI	101 5 196-9 -14		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
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COURSE STRUCTURE AND SYLLABUS

FOR

INFORMATION TECHNOLOGY

(Applicable for batches admitted from 2016-2017)



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

IV Year - I Semester

S. No.	Subjects	L	Т	Р	Credits
1	Cryptography and Network Security	4			3
2	Mobile Computing	4			3
3	Data Ware Housing and Business Intelligence	4			3
4- HS	Managerial Economics and Financial Analysis	4			3
5	Elective-I i. Big Data Analytics ii. Information Retrieval Systems iii. Internet of Things iv. Multimedia Programming	4			3
6	Elective-II i. Cloud Computing ii. Software Project Management iii. Machine Learning iv. Decision Support System	4			3
7	Mobile Computing Lab			3	2
8	Cryptography and Network Security Lab			3	2
	Total Credits				22

IV Year - II Semester

S. No.	Subjects	L	Т	Р	Credits
1	Distributed Systems	4			3
2- HS	Management Science	4			3
3	Management Information System	4			3
4	Elective-III i. Concurrent and Parallel Programming ii. Cyber Security iii. Artificial Neural Networks iv. Software Quality Assurance	4			3
5	Seminar		3		2
6	Project				10
	Total credits				24

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

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Head, IT Department NRI Institute of Fochnology POTHAVARAPPADU (V) Agiripalli (M), Krishna Dist

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

dates STRUCTURAL ENGINEERING

(Applicable for batches admitted from 2016-2017)



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III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	68.44		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

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.

ACADEMIC REGULATIONS & COURSE STRUCTURE

For

POWER ELECTRONICS (PE) POWER AND INDUSTRIAL DRIVES (P&ID) POWER ELECTRONICS AND ELECTRICALDRIVES (PE &ED) POWER ELECTRONICS AND DRIVES (PE&D) POWER ELECTRONICS AND SYSTEMS (PE&S) ELECTRICAL MACHINES AND DRIVES (EM&D)

(Applicable for batches admitted from 2016-2017)



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III Semester

	Subject	L	P	Credits
S. No.				2
1	Comprehensive Viva-Voce			2
2	Seminar – I			4
3	Project Work Part - 1			16
5	Total Credits			20

IV Semester

	Subject	L	Р	Credits
S. No.				2
1	Seminar – II			10
2	Project Work Part - II			18
	Total Credits			20

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DP. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TECHNOLOGY (KN)

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ACADEMIC REGULATIONS & COURSE STRUCTURE

For

THERMAL ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

SEMESTER-III

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

SEMESTER-IV

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

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ACADEMIC REGULATIONS & COURSE STRUCTURE

For

DECS, ECE, DECE

(Applicable for batches admitted from 2016-2017)



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ACADEMIC REGULATIONS & COURSE STRUCTURE

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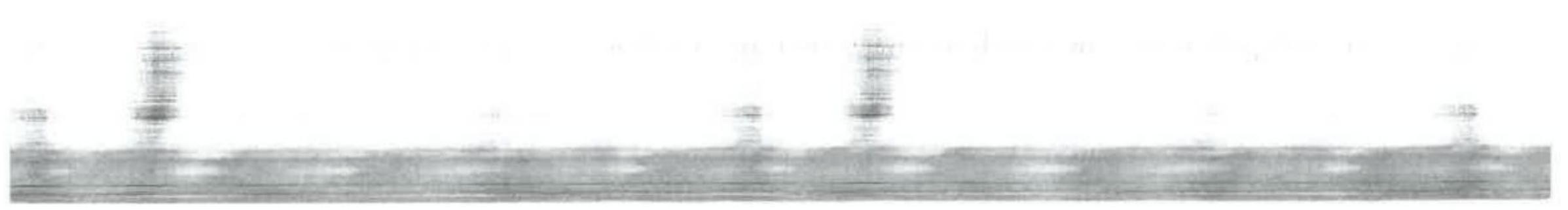
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DECS, ECE, DECE

(Applicable for batches admitted from 2016-2017)



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I Semester

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S. No.	Name of the Subject	L	P	С
1	Digital System Design	4	-	3
2	Detection & Estimation Theory	4	-	3
3	Digital Data Communications		-	3
4	Advanced Digital Signal Processing	-4 -	-	3
5	Elective I I. Transform Techniques II. VLSI Technology & Design III. Radar Signal Processing	4 Hereiter	-	3
6	Elective II I. Statistical Signal Processing II. Optical Communication Technology III. Network Security & Cryptography	A d	-	3
7	1. System Design & Data Communications Lab	-	3	2
	Total Credits			20

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II Semester

S. No.	Name of the Subject	L	P	С
1	Coding Theory & Applications	4	-	3
2	Embedded System Design	4	-	3
3	Image and Video Processing	4	-	3
4	Wireless Communications & Networks	4	-	3
5	Elective III I. CMOS Analog & Digital IC Design II. Advanced Computer Architecture III. Soft Computing Techniques IV. Cyber Security	4	_	3
6	Elective IV I. DSP Processors and Architectures II. EMI / EMC III. Object Oriented Programming	4	-	3
7	Advanced Communications Laboratory	-	3	2
	Total Credits			20



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III Semester

S. No.			Subject		L	P	Credit
1	Comprehen	nsive Viva-V	/oce				2
2	Seminar –	I.		12.00			2
3	Project Wo	ork Part – I					16
	21	日本	Total Credits		5.0	1	20
	(±)		÷ 2				
V Seme				-	5.		÷
					: L		Credits
19-0					: L L		
1940	Seminar -		Subject		i L	P	

Head, ECE Departmer NRI Institute of Technology POTHAVARAPPADU (VIII) Agiripalli (Mdl), Krishna Dist.

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ACADEMIC REGULATIONS & COURSE STRUCTURE

For

COMPUTER SCIENCE & ENGINEERING

(Applicable for batches admitted from 2016-2017)



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

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I Semester

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S.No.	SUBJECT	L	P	С
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

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II Semester

S.No.	SUBJECT	L	Р	C
1	CYBER SECURITY	4	A	3
2	COMPUTER NETWORKS	4		3
3	BIG DATA ANALYTICS	4	12	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

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

IV Semester

Application of the state of the

I Institute of Technology OTHAVARAPPADU (VIII) Iripalli (Mdl.), Krishna Dist. ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

CIVIL ENGINEERING

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Permanently Affiliated to JNTUK, Kakinada (Accredited with NAAC "A" Grade and ISO 9001:2015 Certified Institution) POTHAVARAPPADU (V), (VIA) NUNNA, AGIRIPALLI (M), PIN – 521 212

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DEPARTMENT OF CIVIL ENGINEERING COURSE STRUCTURE FOR FOURTH YEAR B.TECH PROGRAMME

Sl. No	ourse Code	Title of the Course	Ins	tru	chem ction erWe	(Periods	Ex	eme of caminat mum M		No. of Credits
			L	Т	Р	Total	CIA	SEA	Total	
1	18A4101401	Pre-stressed concrete Structures	2	1	0	3	40	60	100	3
2	18A4101402	Design of steel structures	2	1	0	3	40	60	100	3
3		Construction Technology & Project Management	2	0	0	2	40	60	100	2
4	18A4101404	Quantity Surveying & Public works	2	1	0	3	40	60	100	3
5	18A41015111 8A4101512 18A4101513 18A4101514 18A4101515	Professional Elective -4 Finite Element Methods Advanced FoundationEngineering Environmental ImpactAssessment Traffic Engineering Sustainable WaterResources Development	3	0	0	3	40	60	100	3
6	18A4101607	Open elective -4 Project management Remote sensing and GIS techniques	3	0	0	3	40	60	100	2
7		Structural Designing and drawing using Software's	0	0	3	3	40	60	100	1.5
8	18A4101492	Environmental Engineering Lab	0	0	3	3	40	60	100	1.5
9	18A4101791	Project – I	0	0	6	6	40	60	100	1.5
10	18A4101792	Summer Internship/ Design Project	0	0	0	0	40	60	100	1.5
11	18A4100801	Entrepreneurship	2	0	0	2	40	60	100	0
		Total	16	3	12	31	440	660	1100	23

IV YEAR I SEMESTER

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.



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DEPARTMENT OF CIVIL ENGINEERING COURSE STRUCTURE FOR FOURTH YEAR B.TECH PROGRAMME

SI. No	course Code	Title of the Course	Ins	truc	tion We	(Period	(Maximum Marks			No. of Credits
			L	Т	P	Total	CIA	SEA	Total	
		Professional Elective -5/MOOCS 1/								
		Sway am								
	18A4201511	Civil Infrastructure for Smart City				3		(0)	100	
		Development(Sway am)	2	1	0					
	18A4201512	Geo-techniques for Design of	2	1	0		40	60		3
		Underground Structures								
	18A4201513	Remote Sensing and GIS								
	18A4201514	Road safety Engineering								
	18A4201515	River Basin Management								
		Professional Elective -6/ MOOCS 2/								
		Sway am								
	18A4201521	Advanced Structural Design								
	18A4201522	Geo synthetics	2	1	0	3	40	60	100	3
	18A4201523	Environmental Economics								1
	18A4201524	Urban Transportation Planning								1
	18A4201525	Water Shed Management								1
	18A4201791	Project - II	0	0	16	16	40	160	200	14
		Total	4	2	16	22	120	280	400	20

IV YEAR IISEMESTER

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.

ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

ELECTRICAL AND ELECTRONICS ENGINEERING

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Permanently Affiliated to JNTUK, Kakinada (Accredited with NAAC "A" Grade and ISO 9001:2015 Certified Institution) POTHAVARAPPADU (V), (VIA) NUNNA, AGIRIPALLI (M), PIN – 521 212



POTHAVARAPPADU (V), (VIA) NUNNA, AGIRIPALLI (M), PIN - 521 212

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

COURSE STRUCTURE FOR FOURTH YEAR B.TECH PROGRAMME

IV YEAR I SEMESTER

	-	Title of the Course	Scheme of Instruction (Periods Per Week)			Periods	S Ex (Maxi			
Sl. No	Course Code		L	т	P	Total	CIA	SEA	Total	No. of Credits
1	18A4102401	Switch Gear and Protection	3	-	-	3	40	60	100	3
2	18A4102402	Power System Operation and Control	3	_	_	3	40	60	100	3
3	18A4102403	Digital Control Systems	3	-	-	3	40	60	100	3
4	18A4102511 18A4102512	Professional Elective: 1) Electrical Distribution Systems 2) Power Quality	3	-	_	3	40	60	, 100	3
5	18A4102521 18A4102522	Professional Elective: 1) HVDC Transmission 2) High Voltage Engineering	3	-	-	3	40	60	100	3
6	18A4104609 18A4104610 18A4104611	OE-IV: 1) Linear Integrated Circuit and Applications 2) Digital Image Processing 3) Wireless Communications	3	-	-	3	40	60	100	3
7	18A4102491	Power Systems Lab	-	- 1	3	3	40	60	100	1.5
8	18A4102492	Electrical Engineering Workshop Lab	-	_	3	3	40	60	100	1.5
9	18A4100802	IPR & Patents	2	-	2	2	40	60	100	-
10	18A4102791	Term Paper	-	-	-	-	40	60	100	1
11	18A4102792	Technical Seminar	-	-	-	-	40	60	100	2
		Total	20	-	8	26	440	660	1100	24

IV YEAR II SEMESTER

		Title of the Course	Inst	Scheme of Instruction (Periods Per Week)				Scheme of Examination (Maximum Marks)		
S1. No	Course Code			т	Р	Total	CIA	SEA	Total	No. of Credits
1	18A4202511	Professional Elective: 1) FACTS 2) Energy Audit, Conservation & Management	3	_	-	3	40	60	100	3
2	18A4202522	Professional Elective:1) Power System Reforms2) Special Electrical Machines	3	-	-	3	40	60	100	3
3	18A4202791	Project		-	3	3	140	60	200	8
	Total			-	3	9	200	180	400	14

L - LECTURE T - TUTORIAL P - PRACTICAL CIA - Continuous Internal Assessment SEA - Semester End Assessment

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TECHNOLOGY (KN)

ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

MECHANICAL ENGINEERING

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

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IV YEAR II SEMESTER

		Title of the Course				truction Week)	S Ex (Maxi			
SI. No	Course Code		L	т	P	Total	CIA	SEA	Total	No. of Credits
1	PE	 Professional Elective - V /MOOCS 1. Nano Technology 2. Introduction to Robotics 3. Energy Conservation and Management 4. Computer Graphics andGeometrical Modeling 	3	0	0	3	40	60	100	3
2	PE	 Professional Elective - VI /MOOCS 1. Design for Manufacturing 2. Automobile Engineering 3. Metal Forming Process 4. Project Management 	3	0	0	3	40	60	100	3
3	PR	Major Project				18	80	120	200	8
		Total	6	0	0	24	160	240	400	14

L - LECTURE T - TUTORIAL P - PRACTICAL CIA - Continuous Internal Assessment SEA - Semester End Assessment

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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE STRUCTURE FOR THIRD YEAR B.TECH PROGRAMME

III YEAR I – SEMESTER

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S	Course Code	Title of the Course								
No		The of the Course	Sche (Per	me of Instr riods per V	uction Veek)	Total Contact	Total Scheme of Ex Contact (Maximum			No. of Credits
			Lectu	Tutoria	Practi	Hours	CIA	SEA	Total	creans
1	18A3103601	Open Elective - II	re	1	cal	inours.	CIA	SLA	Total	
$\frac{2}{3}$	18A3103602 18A3103401	Introduction to Material Handling Equipment. Introduction to Robotics	3	0	0	3	40	60	100	1
3	18A3103402	Design of Machine Elements-II	3	0	0	3	40	60	100	
4	18A3103403	Dynamics of Machinery	3	0	0	3	40	60	100	۱ ۱۳۰۰ بر ۲۰۰۰ ۱۳
5	18A3103404	Manufacturing Technology	3	0	0	3	40	60	100	
6		Applied Thermodynamics	3	0	0	3	40	60	100	
	18A3103511 18A3103512 18A3103513 18A3103514	 Professional Elective - I 1. Rapid Prototyping 2. Automation in Manufacturing 3. Hydraulic and Pneumatic Systems 4. Electric & Hybrid Vehicles 	3	0	0	3	40	60	100	3
7	18A3100801	Indian Constitution	3	0	0					
8	18A3103494	Machine Tools Lab	0			3	40	60	100	
9	18A3103492	Theory of Machines Lab	0	0	2	2	40	60	100	
10	18A3103791	Minor Project (Design and	0	0	2	2	40	60	100	1
		Fabrication)	0	0	2	2	40	60	100	
		Total	21	0	8	29	400	(0)		
-		Ta	tal credit	S			400	600	1000	
P										21

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ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

ELECTRONICS AND COMMUNICATION ENGINEERING

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Permanently Affiliated to JNTUK, Kakinada (Accredited with NAAC "A" Grade and ISO 9001:2015 Certified Institution) POTHAVARAPPADU (V), (VIA) NUNNA, AGIRIPALLI (M), PIN – 521 212

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NRI INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE STRUCTURE FO	DR FOUR	<u>TH YEAR</u>	B.TECH	PROGRAMME
	IV YEAR I	SEMESTER		

SI. No	Course Code	Title of the Course			Scheme of Instruction (Periods Per Week)				Scheme of Examination (Maximum Marks)			
			L	T	P	Total	CIA	SEA	Total	1		
1	18A4104401	Microwave Engineering	3	1	-	4	40	60	100	4		
2	18A4104402	Optical Communication	3	-	-	3	40	60	100	3		
3	18A4104403	Digital Image Processing	3	1	-	4	40	60	100	4		
4	18A4104511	Satellite Communications & Radar Engineering	3	-	-	3	40	60	100	3		
5	18A4104513	Embedded System Design	3	-	1-	3	40	60	100	3		
	18A4104522	Operating Systems	1	1	1		1	1				
	18A4104521	Data Communications	1	-	-				-			
6	18A4100803	Indian Constitution	2	-	-	2	40	60	100	0		
7	18A4104491	Microwave Engineering & OC Lab	-	-	2	2	40	60	100	1		
8	18A4104791	Mini Project	-	-	8	8	-			4		
		Total	17	1	14	32	320	480	800	22		

IV YEAR II SEMESTER

SI. No	Course Code	Title of the Course	Ins	Scheme of Instruction (Periods Per Week)				Scheme of Examination (Maximum Marks)			
			L	T	P	Total	CIA	SEA	Total	s	
1	18A4204511	Wireless Communication Networks	3	-	-	3	40	60	100	3	
2	18A4204521	Computer Networks	3	-	-	3	40	60	100	3	
	18A4204522	Internet Of Things And Applications									
3	18A4204791	Main Project And Seminar	-	-	16	16	80	120	200	8	
		Total	6	-	16	22	160	240	400	14	

Head, ECE Department NRI Institute of Technol-POTHAVARAPPADU (Vi Agiripalli (Mdl), Krishna Dist.

ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

COMPUTER SCIENCE ENGINEERING

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

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NRI Institute of Techne

Agiripalit (Mdl.), Kitemia

Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212 URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444

IV CSE - II Semester L - LECTURE T – TUTORIAL P – PRACTICAL CIA – Continuous Internal Assessment SEA – Semester End Assessment

SI. No	Course Code	Title of the Course	Instru	etion er W	(eck)	riods	on arks)	No. of Credits		
			L	т	P/D	Tota 1	CIA	SEA	Total	
1	PE-6	Professional Elective-	3	0	0	3	40	60	100	3
2	OE-4	Open Elective-4	3	0	0	3	40	60	100	3
3		Major Project (Internal/Industry Internship) dissertation***	0	5	7	12	40	60	100	8
	1	otal	6	5	7	18	120	180	300	14

Code	Professional Elective - 6
	6.1 Deep Learning
	6.2 System Modeling and Simulation
	6.3 Social Networking and Semantics
	6.4 Cyber Forensics

 Professional Elective- 6 and OE-4 is offered through blended learning method. Regular classes as well as online classes will be conducted as per the choice of the students (moocs). However, students will have to write their regular exam at the end semester.

** Internship or Professional certification courses may be opted as self-learning course. Students register and complete the opted course in approved technology platform on or before Last Instruction Day of VIII Semester. They have to submit the certificate before the last Instruction Day of VIII Semester.

Technical Writing/Paper publication in a reputed journal can be done on or before Last Instruction Day of VIII Semester. ACADEMIC REGULATIONS (NRIA18) COURSE STRUCTURE AND DETAILED SYLLABUS (I YEAR)

INFORMATION TECHNOLOGY

For

B.Tech FOUR YEAR DEGREE COURSE (Applicable from 2018-19 Batches)



NRI INSTITUTE OF TECHNOLOGY

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NRIA18 : ACADEMI CURRICULUM FOR B.TECH (INFORMATION TECHNOLOGY)

IV IT - II Semester

T-TUTORIAL P-PRACTICAL CIA - Continuous Internal Assessment SEA - Semester L - LECTURE End Assessment

Sl. No	Course Code Title of the Course		Scheme of Instruction (Periods Per Week)				Scheme of (Maxin	No. of		
			L	T	P/D	Total	CIA	SEA	Total	Credits
1	PE-6	Professional Elective-6	3	0	0	3	40	60	100	3
2	OE-4	Open Elective-4	3	0	0	3	40	60	100	3
3		Major Project (Internal/Industry Internship) dissertation***	0	5	7	12	40	60	100	8
	ſ	fotal	6	5	7	18	120	180	300	14

Code	Professional Elective - 6
	6.1 Deep Learning
	6.2 System Modeling and Simulation
	6.3 Social Networking and Semantics
	6.4 Cyber Forensics

* Professional Elective- 6 and OE-4 is offered through blended learning method. Regular classes as well as online classes will be conducted as per the choice of the students (moocs). However, students will have to write their regular exam at the end semester.

** Internship or Professional certification courses may be opted as self-learning course. Students register and complete the opted course in approved technology platform on or before Last Instruction Day of VIII Semester. They have to submit the certificate before the last Instruction Day of VIII Semester.

Technical Writing/Paper publication in a reputed journal can be done on or before Last Instruction Day of VIII Semester.

Head, IT Department (V) UQARAARADU (V) Meiohna Dist



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I - Semester

	Total Credits /Mar	ks				18	800
8	Audit Course –1	Audit	2	0	0	0	100
7	Advanced Structural Engineering Laboratory	Lab			4	2	100
6	Advanced Concrete Technology Laboratory	Lab	-		4	2	100
	c) Advanced Reinforced Concrete Design Advanced Concrete Technology		2	0	0	2	100
	a) Bridge Engineering b)Repair and Rehabilitation of Structures						
4	Program Elective II	e	3	0		3	109
	c) Design of RCC Foundations	Electiv		1	1	+	
	Structural Engineering				1		
	b) Analytical & Numerical Methods for						Į.
	a) Matrix Analysis of Structures		1				
3	Elective I	e	1-				1
2	Structural Dynamics	Electiv	3	0	1	. 3	
1	Theory of Elasticity	Core	3	0		- 3	10
5.110	The second Electricity	Core	3	0	1-		3 10
S.No	Course Name	у	L	-		p (Mar
		Catego	r				

II - Semester

S.No.	Course Name	Category	L	T	1	PC	Mark
1	Finite Element Methods in Structural Engineering	Core	3	0	1-	- 3	100
2	Theory of Plates and Shells	Core	3	0	+	. 3	100
3	Elective III	Elective	3	0	1-	3	100
	a) Stability of Structures					1 -	100
	b) Advanced Steel Design		1				
	c) Analysis of Offshore Structures		1		1	1	
4	Elective IV	Elective	3	0	1	3	100
	a) Earthquake Resistant Design of Buildings		1.	Ĩ	-		100
	b) Precast and Prefabricated Structures		1				
he	c) Earth Retaining Structures						
5	Computer Aided Design Laboratory			-	4	2	100
6	Structural Design laboratory	Lab		**50	4	2	100
7	Mini Project With Seminar		0				
8	Audit Course -2	A	0	0	4	2	100
		Audit	2	0	0	0	100
	Total Credits / Marks					18	800

CHNOLOGY 100

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II – Semester

S.No.	Course Name						-
1	Elective 5: Program Elective	Category	L	Т	P	C	Marks
	L'IIIOOCO ···	Elective	3	0		3	100
	a) Design of Prestressed						-
	Concrete structures						
	b) Structural Health Monitoria						
	of mousular structures						
	Open Elective / MOOCS**		-				
	a) Artificial Intelligence Technique						
2	D) Construction Management						
2	c) Green Technology	Elective	3	0		3	100
3	Dissertation Phase-I / Industrial		-	ev.100	20	10	
	Project (To be continued and						
	Evaluated next Semester)*						
	Total Credits / Marl	KS				16	200

* Evaluated and displayed in 4th Semester marks list

** Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course

IV - Semester

SI No.	Course Name	Category	L	T	Р	С	Marks
1	Project / Dissertation Phase II (Continued from III Semester)		0	0	32	16	100
	Total Credits / M	larks				16	100

Audit course 1 & 2

- 1. English for Research PaperWriting
- 2. DisasterManagement
- 3. Sanskrit for TechnicalKnowledge
- 4. ValueEducation
- 5. Constitution of India
- 6. PedagogyStudies
- 7. Stress Management by Yoga
- 8. Personality Development through Life Enlightenment Skills.



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POWER ELECTRONICS AND DRIVES

COURSE STRUTURE AND SYLLABUS FOR SECOND YEAR PG PROGRAMME

III SEMESTER

Sl. No.	Course Code	Title of the Course	L	Р	Total	Max. Marks	No. of Credits
1	18D2152791	Comprehensive Viva-Voce				50	2
2	18D2152792	Seminar – I				50	2
3	18D2152793	Project Work Part - I				100	16
		Total				200	20
					PRACTI		

L - LECTURE T – TUTORIAL P - P

IV SEMESTER

Sl. No.	Course Code	Title of the Course	L	Р	Total	Max. Marks	No. of Credits
1	18D2252791	Seminar – II				50	2
2	18D2252792	Project Work Part - II				100	18
		Total				150	20
		L - LECTURE T – TUTORIAL	P - P	RACT	ICAL		

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TEUMNOLOGY (KN)



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COURSE STRUCTURE FOR

M.TECH

DEPARTMENT OF MECHANICAL ENGINEERING

SEMESTER-III

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

SEMESTER-IV

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

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DIGITALELECTRONICSANDCOMMUNICATIONSYSTEMS

COURSESTRUCTUREFORFIRSTYEARM.TECHPROGRAMME

			ISEME	STER				1990-1990 1990-1990 1990-1990	
SI. No	Subject Code	Subject	L	Р	Total	Internal Marks	External Marks	Total Marks	Credits
1	18ECDC101	DigitalSystemDesign	4		4	- 40	60	-100	3
2	18ECDC102	AdvancedMicrocontrollersandItsA pplications	4		.4 i>	40	60 1	100	3
3	18ECDC103	DigitalDataCommunications	4		4	40	60	100	3
.4	18ECDC104	AdvancedDigitalSignalProcessing	4		4	40	60	100	3
5	18ECDC105A 18ECDC105B 18ECDC105C	Electivel I. TransformTechniques II. VLSI Technology&Design III. DetectionandEstimationTheory	4		4	40	60	100	3
6	18ECDC106A 18ECDC106B 18ECDC106C	Electivell I. StatisticalSignalProcessing II. OpticalCommunicationTechnology III. NetworkSecurity&Cryptography	4		4	40	60	100	3
7	18ECDC161	DesignandSimulationLab .		3	3	40	60	100	2
		Total Credits	24	3	27	280	420	700	20

IISEMESTER

SI. No	Subject Code	Subject	L	Р	Total	Internal Marks	External Marks	Total Marks	Credits
1	18ECDC201	CodingTheory&Applications	4		4	40	60	100	3
2	18ECDC202	EmbeddedSystemDesign	4		4	40	60	100	3
3	18ECDC203	Imageand Video Processing	4		4	40	60	100	3
4	18ECDC204	Wireless Communications &Networks	4		4	40	60	100	3
5	18ECDC205A 18ECDC205B 18ECDC205C	ElectiveIII I. CMOSAnalog&Digital ICDesign II. AdvancedComputerArchitecture III. DesignofFaultTolerance	4		4	40	60	100	3
	18ECDC206A 18ECDC206B 18ECDC206C	ElectiveIV I. DSPProcessors and Architectures II. EMI/EMC III. ObjectiveOriented Program	4		4	40	60	100	3
7	18ECDC261	AdvancedCommunications Laboratory		3	3	40	60	100	2
		Total Credits	24	3	27	280	420	700	20

L- LECTURE

P-PRACTICAL



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COURSESTRUCTUREFORSECONDYEARM.TECHPROGRAMME igraphin " " - "

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IIISEMESTER

SI. No	Subject Code	Subject	L	Р	Total	Internal Marks	External Marks	Total Marks	Credits
1	18D2138791	COMPREHENSIVE VIVA				50	ب -	50	2
2	18D2138792	SEMINAR-I				50		50	2
3	18D2138793	RESEARCH PROJECT PART I				100		100	16
		Total Credits				200		200	

			IVSEN	<i>NÉSTE</i>	R				
SI. No	Subject Code	Subject	L	P	Total	Internal Marks	External Marks	Total Marks	Credit
i	18D2238791	SEMINAR -II				100		100	2
2	18D2238792	RESEARCH PROJECT PART-II				40	160	200	18
	1	Total Credits				140	160	300	20
		L- LEC	TURE	.+.	P-PRAC	TICAL			

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Head, ECE Department NRT Eastingte of The POT HAV ARAPPIN Aginipalit (Md), and



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2 M.TECH 2 SEM (NRIA18)

SUBJECT CODES

SL NO	YEAR	SEM	BRANCH	REG	SL ORDER	SURJECT CODE			ENT PASS	into Sala	MAN MARAS	CREEDIS		are	C/E
1	2	2	CSE(P.G)	NRIA18	1	18D2258791	SEMINAR -II	SEMINAR-II	0	25	50	2	0	s	¢
2	2	2	CSE(P.G)	NRIA18	2	18D2158792	RESEARCH PROJECT PART-D	PROJECT	24	50	100	18	0	Р	с



2 M.TECH 1 SEM (NRIA18)

SUBJECT CODES

SL_NO	VEAR	5KM	BRANCE	REG	SI. ORDER	SUBJECT CODE	SUBJECT NAME	steon 1	ENT FASS	TOTPASS	MAX MARAS	() BELOUT	NAN P	4	
1	2	1	CSE(P.G)	NRIAIS	1	18D2158791	COMPREHENSIVE VIVA	CVIVA	0	25	50	2	0	v	С
2	2	1	CSE(P.G)	NRIA 16	2	1802158792	SEMINAR-I	SEMINAR-1	0	25	50	2	0	5	c
3	2	1	CSE(P.O)		3		RESEARCH PROJECT PARTA	PROJECT	50	50	100	16	0	P	c

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Head, CSE Department NRI Institute of Technology POTHAVARAPPADU (VIII) Agiripalli (Mdl.), Krishna Dist.



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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

COURSE STRUCTURE

For

MBA (Regular)

(Applicable for batches admitted from 2019-2020)

NRIA18



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II MBA IV SEMESTER

Subject	Title	Conta	et Hrs		Mark	\$	Credits
÷		L+T	P	I	E	Т	
18E2298401	Logistic and Supply Chain Management	4		40	60	100	3
18E2298402	Entrepreneurship Development	4		40	60	100	3
HR							
18E2298511	Organizational Development & Change Management	4		40	60	100	3
18E2298512	Global HRM	4		40	60	100	3
18E2298513	Labor Welfare & Legislation	4		40	60	100	3
18E2298514	Management of Industrial Relations	4		40	60	100	3
FINANCE			ll,				
18E2298521	Financial Markets and Services	4		40	60	100	3
18E2298522	Global Financial Management	4		40	60	100	3
18E2298523	Risk Management	4		40	60	100	3
18E2298524	Tax Management	4		40	60	100	3
MARKETING	Ĵ						
18E2298531	Services Marketing	4		40	60	100	3
18E2298532	Promotional Distribution Management	4		40	60	100	3
18E2298533	Global Marketing Management	4		40	60	100	3
18E2298534	Supply Chain Management	4		40	60	100	3
SYSTEMS							
18E2298541	Business Intelligence	4		40	60	100	3
18E2298542	Enterprise Resource Planning	4		40	60	100	3
18E2298543	Cyber Laws & Security	4		40	60	100	3
18E2298544	Information Systems Audit	4		40	60	100	3
18E2298791	Major Project & Comprehensive Viva		••••	10		Grade	8
	TOTAL MARKS/CRE	DITS				2700	90

Head, MBA Department NRI Institute of Technology POTHAVARAPPADU (Vill) Agiripalli (Mdl), Krishna Dist



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II MBA – I SEMESTER

S.No.	Course Code	Course Title	L	М	P	С	I	E	T
1	22E2198401	Strategic Management	4	0	0	4	25	75	100
2	22E2198402	Operations Research	4	0	0	4	25	75	100
3	22E219851x	Elective -1 Paper 1	4	0	0	3	25	75	100
4		Elective -1 Paper 2	4	0	0	3	25	75	100
5		Elective -2 Paper 1	4	0	0	3	25	75	100
6		Elective -2 Paper 2	4	0	0	3	25	75	100
7	22E2198791	Industrial Project based on Summer Internship	40	0	0	3	-	100	100
			24	7	-	23	150	550	700

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Head, MBA Department NRI Institute of Technology POTHAVARAPPADU (Vill) Agiripalli (Mdl), Krishna Dist

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II MBA – II SEMESTER

S.No.	Course Code	Course Title	L	Μ	P	C	I	E	T
1	22E2298401	Supply Chain Management And Analytics	4	0	0	4	25	75	100
2	22E2298402	Innovation And Entrepreneurship	4	0	0	4	25	75	100
3		Elective -1 Paper 1	4	0	0	3	25	75	100
4		Elective -1 Paper 2	4	0	0	3	25	75	100
5		Elective -2 Paper 1	4	0	0	3	25	75	100
6		Elective -2 Paper 2	4	0	0	3	25	75	100
7	22E2298791	Comprehensive Viva	0	0	0	3	-	50	50
			23	0	0	23	150	500	650

Dual Electives

The elective papers will be offered in the areas of Marketing, Finance and Human Resources Management and Business Analytics. The students should choose any two of the following elective areas in the beginning of the third and fourth semester of MBA. The students cannot change elective areas which are selected in the third semester and the same should choose in the fourth semester.

Head, MBA Department NRI Institute of Technology POTHAVARAPPADU (Vill) Agiripalli (Mdl), Krishna Dist

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		Title of the Course			-	truction Week)	Ex	cheme aminat mum N	ion	No. of
S1. No	Course Code		L	T	P	Total	CIA	SEA	Total	Credits
1	20A3201601	DESIGN AND DRAWING OF STEEL		1						
_		STRUCTURES	3	0	0	3	30	70	100	3
2	20A3201602	WATER RESOURCE ENGINEERING	3	0	0	3	30	70	100	3
3	20A3201603	GEOTECHNICAL ENGINEERING -2	3	0	0	3	30	70	100	3
		PROFESSIONAL ELECTIVE COURSE II								
	20A3201611	ADVANCED STRUCTURAL ANALYSIS		1						
4	20A3201612	ARCHITECTURE AND TOWN PLANNING								
	20A3201613	ROAD SAFETY ENGINEERING								
	20A3201614	TRAFFIC ENGINEERING	3	0	0	3	30	70	100	3
		OPEN ELECTIVE COURSE/JOB								
		ORIENTED ELECTIVE (OE-2)						-		
5	20A3201621	ELEMENTS OF CIVIL ENGINEERING								
	20A3201622	ENVIRONMENTAL ENGINEERING								
	20A3201623	DISASTER MANAGEMENT	3	0	0	3	30	70	100	3
		PROFESSIONAL CORE COURSES LAB	Ŭ	-	Ū	0				
6	20A3101691	ESTIMATION, COSTING AND								
		CONTRACTS	0	0	3	3	15	35	50	1.5
		PROFESSIONAL CORE COURSES LAB	Ū							
7	20A3101691	HIGHWAY DESIGN BY USING MX								
í l		ROADS AND OPEN ROADS SOFTWARE	0	0	3	3	15	35	50	1.5
		PROFESSIONAL CORE COURSES LAB								
	20A3101692	CIVIL ENGINEERING PRACTICE :								
8	2043101692	MANUAL DESIGNING OF A								
		RESIDENTIAL BUILDING	1	0	2	3	15	35	50	1.5
		SKILL ADVANCED COURSE/ SOFT	-	Ť						
9	20A3101693	SKILL COURSE: COMPUTATIONAL								1.5
		TOOLS	2	0	0	2	15	35	50	
10	20A3201	EMPLOYABILITY SKILLS	2	0	0	2	30	70	100	0
		INDUSTRIAL/RESEARCH INTERNSHIP (MA	ANDA'	ORY	2 M	DNTHS				
11	2043201	TO BE EVALUATED IN IV YEAR I SEMEST	ER			-	30	70	100	1.5
		Total	20	0	8	28				22.5

III YEAR II SEMESTER

L - LECTURE T – TUTORIAL P - PRACTICAL

CIA – Continuous Internal Assessment SEA – Semester End Assessment

Head of The Department CIVIL ENGINEERING NRI Institute of Technology POTHAVARAPPADU.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NRIA20 Course Structure

III YEAR I SEMESTER

SI. No	Course Code	Course Category	Title of the Course	L	Т	P	Total Credit s
1	20A3102401	PCC	Power Systems-II	3	-	-	3
2	20A3102402	PCC	Power Electronics	3	_	-	3
3	20A3102403	PCC	Control Systems	3	_		3
4	20A3100601	SC	Soft Skill Course: Employability Skills Aptitude and Reasoning	3	-	-	3
5	20A3102511	PEC	Professional Elective – I: Utilization of Electrical Energy	3	-	-	3
6	20A3102491	PCC	Control Systems Lab	-	_	3	1.5
7	20A3102492	PCC	Power Electronics Lab	-	-	3	1.5
8	20A3102991	SC	Skill oriented course : IoT Lab	-	-	3	2
9	20A3102791	PROJ	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)	-	-		1.5
		·····	TOTAL	CR	EDI	TS	= 21.5
		N	linors Course	4	0	0	4
		P	Ionors Course	4	0	0	4

Professional Core	
Courses	12
Professional	_
Elective Courses	3
Skill advanced	
course/ Soft skill	5
course	
Summer Internship	1.5
TOTAL CREDITS	21.5

Dr. N. SAMBASIVA RAO B.Tech, M.Tech, Ph.D, MISTE Head of the Department & Professor of EEE NRI INSTITUTE OF TECHNOLOGY (KN)

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III YEAR II SEMESTER

			r	~ •				Scheme	-	
SI.	Commo				ieme			No. of		
No	Course	Title of the Course			tructi		E			
140	Code	Code				Week)			Marks)	Credits
	20 4 22 02 4 01		L	Τ	P	Total	CIA	SEA	Total	
1	20A3203401 (PCC)	Heat Transfer	3	0	0	3	30	70	100	3
2	20A3203402 (PCC)	Design of Machine Members-II	3	0	0	3	30	70	100	3
3	20A3203403 (PCC)	CAD/CAM	3	0	0	3	30	70	100	3
4	PE-II	 Automobile Engineering Smart Manufacturing Advanced Mechanics of Solids Statistical Quality Control Industrial Hydraulics and Pneumatics MOOCs (NPTEL/ Swayam) Course (12 Week duration) 	3	0	0	3	30	70	100	3
5	OE-II	 Industrial Robotics Essentials of Mechanical Engineering Advanced Materials Introduction to Automobile Engineering 	3	0	0	. 3	30	70	100	3
6	20A3203491 (PCC-L)	Heat Transfer Lab	0	0	3	3	15	35	50	1.5
7	20A3203492 (PCC-L)	CAE&CAM Lab	0	0	3	3	15	35	50	1.5
8	20A3203493 (PCC-L)	Measurements & Metrology Lab	0	0	3	3	15	35	50	1.5
9	20A3203791 (MINI-PR)	Mini Project (Design & Fabrication)	0	0	4	4	30	70	100	2.0
10	20A3200802 (MC)	Research Methodology and IPR	2	0	0	2	30	70	100	0
		Total	17	0	13	30	285	595	850	21.5
	Ho	nors/Minor courses	4	0	0	4	30	70	100	4

L - LECTURE T – TUTORIAL P - PRACTICAL

CIA - Continuous Internal Assessment SEA - Semester End Assessment
 At the end of III Year II Semester Students shall complete summer Internship spanning between 1 to 2 months (minimum of 4 weeks) at industry/ higher learning institutions/APSSDC.

Row Mechanical Department Institute of Technology POTHAVARAPAAU(VIII) Autopalli (Mail Antopage)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III YEAR I SEMESTER

SI.	Course	iffe of the Course				truction Week)		Scheme mination Marks	n (Max	No. of Credits
No	Code		L	Τ	Ρ	Total	CIA	SEA	Total	CICUIPS.
1	20A3104401	Linear and Digital Integrated Circuits	3	-	-	3	30	70	100	3
2	20A3104402	Antennas and Wave Propagation	3	-	-	3	30	70	100	3
3	20A3104403	Digital Communications	3	-	-	3	30	70	100	3
4	20A3105601	Data structures	3	-	-	3	30	70	100	5. X. 3.
5	20A3104511	Computer architectureand Organization	3	-	-	3	30	70	100	3.
	20A3104512	BiomedicalEngineering								E.
	20A3104513	Electromagnetic						en Kr		
6	20A3104491	Linear and Digital Integrated	-	-	3	3	15	35	50	1.5
7	20A3104492	Digital Communications Lab	-	-	3	3	15	35	50	1.5
8	20A3104991		1	-	2	3	-	50	50	2
9	20A3100803		-	-	2	3	30	70	100	0
	20A3104791	Summer Internship two months (mandatory)after second year (to be evaluated during V semester)	0	0	0	0	15	3,5	50	1.5
		Total	16	-	10	27	255	595	850	21.5

Head, ECE Department NRI Institute of Technolog POTHAVARAPPADU (VIII) Agiripalli (MdI), Krishna Dist.

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NRI INSTITUTE OF TECHNOLOGY

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SL No	Course Code	Title of the Course	Schen (Peri		nstruc er We		Scheme o (Maxim	ks)	No. of Credits	
	course cour		L	Т	P/D	Total	CIA	SEA	Total	
1	20A3205403	Machine Learning	3	0	0	3	30	70	100	3
2	20A3205402	Compiler Design	3	0	0	3	30	70	100	3
3	20A3205401	Cryptography and Network Security	3	0	0	3	30	70	100	3
4	20A320560X	OE-2	3	0	0	3	30	70	100	3
5	20A320551X	PE-2	3	0	0	3	30	70	100	3
6	20A3205491	Machine Learning Lab	0	0	3	3	15	35	50	1.5
7	20A3205492	R Programming lab	0	0	3	3	15	35	50	1.5
8	20A3205493	Compiler Design Lab	0	0	3	3	15	35	50	1.5
9	20A3205991	MEAN Stack Technologies	0	0	4	4	15	35	50	2
10	20A3205801	Employability Skills - 2	2	0	0	2	30	70*	100	0
10		otal	17	0	13	30	240	560	800	21.5
	Honors/Min	or courses - 3	3	0	2	5	30	70	100	4

III YEAR II SEMESTER

Industrial/Research Internship (Mandatory) 2 Months during

Code	Professional Elective -2							
20A3205511	2.1 Advanced Database Management Systems							
20A3205512	2.2 Network Programming							
20A3205513	2.3 Big data Analytics							
20A3205514	2.4 Object Oriented Analysis and Design							

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Pothavarappadu, Agiripalli Mandalam, Krishna Dt., Andhra Pradesh - 521212 URL : www.nrigroupofcolleges.ac.in, Ph : 0866 2469666, Email : principal@nriit.edu.in

DEPARTMENT OF INFORMATION TECHNOLOGY

PRPOPSED STRUCTURE FOR THIRD YEAR B.TECH PROGRAMME

SI. No	Course Code	Title of the Course		Scheme of Instruction (Periods Per Week)				Scheme of Examination (Maximum Marks)			
			L	Т	P/D	Total	CIA	SEA	Total	Credits	
1	20A3105402	Artificial Intelligence	3	0	0	3	30	70	100	3	
2	20A3105401	Computer Networks	3	0	0	3	30	70	100	3	
3	20A3105403	Design and Analysis of Algorithms	3	0	0	3	30	70	100	3	
4	20A310560X	OE-1	3	0	0	3	30	70	100	3	
5	20A310551X	PE-1	3	0	0	3	30	70	100	3	
6	20A3105491	Computer Networks lab	0	0	3	3	15	35	50	1.5	
7	20A3105492	AI Programming Lab	0	0	3	3	15	35	50	1.5	
8	20A3105991	DEVOPS	0	0	4	4	15	35	50	2	
10	20A3105801	Employability Skills-1	2	0	0	2	30	70*	100	0	
Summ	er Internship 2 Months (N be evaluated du	Mandatory) after second year (to ring V semester)	0	0	0	0	30	70	100	1.5	
	То	tal	17	0	10	27	255	595	850	21.5	
	Honors/Mine	or courses - 2	3	0	2	5	30	70	100	4	

III YEAR I SEMESTER

Code	Professional Elective - 1
20A3105511	1.1 Cloud computing
20A3105512	1.2 Software Testing Methodologies and Tools
20A3105513	1.3 Data Warehousing and Data Mining
20A3105514	1.4 Advanced Data Structures

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Head, IT Department NRI Institute of Technology POTHAVARAPPADU (V) Agiripalii (M), Krishna Dist