



SCIENT INSTITUTE OF TECHNOLOGY

(Approved by AICTE vide F. No. 730-50-314 (E)/ET/2001 and Affiliated to JNTUH)

IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 15-04-2021

5125/2

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2021-2022-for enhancement of employment opportunities for students-Reg

I would like to bring the following for your kind perusal and favorable action through board of studies concerned

This is to bring your kind attention that the engineering students are unable to get suitable employment after the completion of their graduation. Though lot of efforts has been taken up by the colleges and the University, all our efforts go in vain. The efforts of all stakeholders like Institution, University, industry, parents would bring fruitful result, if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

1. DevOps
2. Python Programming
3. Cloud Computing

These technologies would certainly enable majority of the engineering graduates for employment Training & support can be taken from the industries.

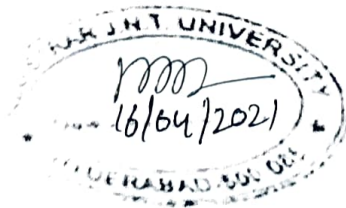
I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir.

Yours Faithfully,

HOD CSE, SNTI

Head of the Department CSE
Scient Institute of Technology
IBRAHIMPATNAM, R. R. Dt. - 501 506



PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. - 501 506



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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 20-04-2021

5125/4

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, ELECTRICAL AND ELECTRONICS ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2021-2022-for enhancement of employment opportunities for students-Reg

I would like to bring the following for your kind perusal and favorable action through board of studies concerned

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1. Applications of Automation in Electrical Engineering
2. IoT Applications in Electrical Engineering
3. Advanced Power system Protection

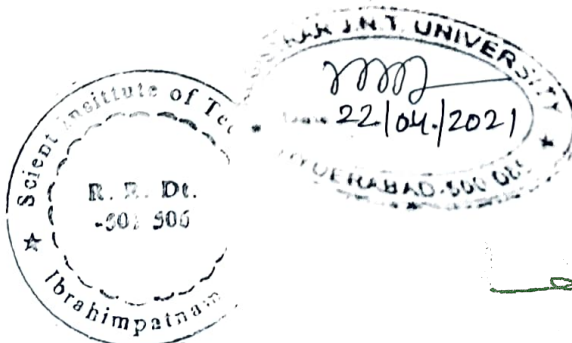
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Thanking you Sir.

Yours Faithfully,

HOD EEE, SNTI



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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 22-04-2021

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

5125/5

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, ELECTRONICS AND COMMUNICATION ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2021-2022-for enhancement of employment opportunities for students-Reg

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1. Low Power VLSI
2. 5G Applications in Communications
3. FPGA

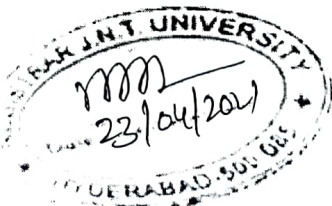
These technologies would certainly enable majority of the engineering graduates for employment Training & support can be taken from the industries.


I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir.

Yours Faithfully,

HOD ECE, SNTI




Head of the Department ECE
SCIENT INSTITUTE OF TECHNOLOGY
Ibrahimpatnam, R. R.



PRINCIPAL
Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. - 501 506



SCIENT INSTITUTE OF TECHNOLOGY

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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 05-03-2020

4816/4

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, ELECTRICAL AND ELECTRONICS ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2020-2021-for enhancement of employment opportunities for students-Reg

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1. AI Techniques in Electrical Engineering
2. Machine Learning Applications to Electrical Engineering
3. Power Electronic Applications to Renewable Energy Systems

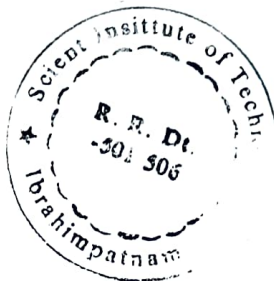
These technologies would certainly enable majority of the engineering graduates for employment Training & support can be taken from the industries.

I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir.

Yours Faithfully,

HOD BEE, SNTI



Head of the Department (B.E.E.)
SCIENT INSTITUTE OF TECHNOLOGY
Ibrahimpatnam 501 506, R.R. Dist

PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 506



SCIENT INSTITUTE OF TECHNOLOGY

(Approved by AICTE vide F. No. 730-50-314 (E)/ET/2001 and Affiliated to JNTUH)

IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 06-03-2020

4816/5

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, ELECTRONICS AND COMMUNICATION ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2020-2021-for enhancement of employment opportunities for students-Reg

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1. IoT Architectures
2. Chip Designing
3. Advanced Control Systems

These technologies would certainly enable majority of the engineering graduates for employment Training & support can be taken from the industries.

I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir.

Yours Faithfully,

HOD ECE, SNTI

Head of the Department ECE
SCIENT INSTITUTE OF TECHNOLOGY
Ibrahimpatnam, R. R. Dt. - 501 506.



PRINCIPAL
Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. - 501 506.



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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Date: 04-03-2020

4816/1

To
The Registrar,
JNTUH UNIVERSITY, Kukatpally.
HYDERABAD-500085

Sir.

SUB: SCIENT INSTITUTE OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2020-2021-for enhancement of employment opportunities for students-Reg

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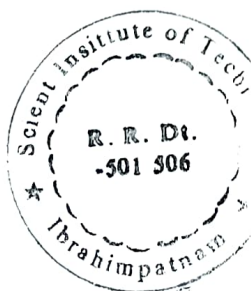
1. Quantum Computing
2. Storage area Networks
3. LINUX Programming

These technologies would certainly enable majority of the engineering graduates for employment Training & support can be taken from the industries.

I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir.

Yours Faithfully,
HOD CSE, SNTI



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Scient Institute of Technology
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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:24/04/2019

1428/

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,

SUB: SCIENT INSTITUTE OF TECINOLOGY , COMPUTER SCIENCE AND ENGINEERING
Dept.-Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year-2019-2020 -for enhancement of employment opportunities for students-Reg

I would like to bring the following for your kind perusal and favorable action through board of studies concerned

This is to bring your kind attention that the engineering students are unable to get suitable employment after the completion of their graduation. Though lot of efforts has been taken up by the colleges and the University, all our efforts go in vain. The efforts of all stakeholders like institution University, industry, parents would bring fruitful result, if the University can take the initiative of introducing the following technologies which are being used widely in t industry.

1. ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
2. DATA SCIENCE
3. DEEP LEARNING
- 4.FOG COMPUTING
- 5.ANDRIOD APPLICATION

These technologies would certainly enable majority of the engineering graduates for employment Training support can be taken from the industries.

I Hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum, by forwarding to the BOS of CSE dept, JNTUHCE, Hyderabad.

Thanking you Sir,

Yours Faithfully,

HOD CSE, SNTI.



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Scient Institute of Technology
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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

1579/1

Date:20/04/2019

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,

SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRONICS AND COMMUNICATION
ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH
Curriculum for the academic year 2019-2020 , for enhancement of employment opportunities for
students-Reg

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studies concerned

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employment after the completion of their graduation. Though lot of efforts have been taken up by the
colleges and the University, all our efforts go in vain. The efforts of all stakeholders like institution
University, industry, parents would bring fruitful result, if the University can take the initiative of
introducing the following technologies which are being used widely in t industry.

- 1.Embeddedsystems design laboratory
- 2.Advance antenna design laboratory
- 3.Appitude and communication skills course(I Year onwards)
- 4.Internship as mandatory course (III Year)
- 5.MOOC Certification

These technologies would certainly enable majority of the engineering graduates
for employment Training support can be taken from the industries.

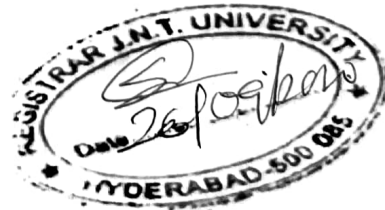
I hope you would consider my request and take initiative in introducing the above
mentioned technologies as part of JNTUH curriculum.

Thanking you Sir,

Yours Faithfully,

HOD ECE, SNTI.

A. Shanee



PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 506



SCIENT INSTITUTE OF TECHNOLOGY

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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:02/07/2019

27317/2

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,
**SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRICAL & ELECTRONICS
ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH
Curriculum for the academic year 2019-2020 , for enhancement of employment opportunities for
students-Reg**

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1.IV-I- HVE (HIGH VOLTAGE ENGINEERING)

- a).Latest Trends in HVE
- b). Gas as insulating media
- c).Onlineandoffline tap changers
- d). Testing of HV transformer

IV-I-EDS(Electrical Distribution Systems)

- a).Typesof subtransmission systems
- b)radial andloop type of primary feeders
- c)Types of substation buses

2. III-II- EMI(Electrical Measuring Instrumentation)

- a). Measurement of mutual inductance by cambel bridge

3.III-I- PS-II(Power systems-II)

- a). Effect of ground capacitance
- b).Skin , Proximity and Ferranti effect

These technologies would certainly enable majority of the engineering graduates for employment Training support can be taken from the industries.

I hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir,

Yours Faithfully,

HOD ECE, SNTI

A. Shangir



PRINCIPAL
Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. - 501 506



SCIENT INSTITUTE OF TECHNOLOGY

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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:22/05/2018

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

1129/

Sir,

SUB: SCIENT INSTITUTE OF TECINOLOGY , COMPUTER SCIENCE AND ENGINEERING
Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2018-2019 , for enhancement of employment opportunities for students-Reg

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- 1.Python Programming
- 2.R Programming
- 3.Machin learning
- 4.Android Development Course
- 5..Net technology
- 6.Data Science

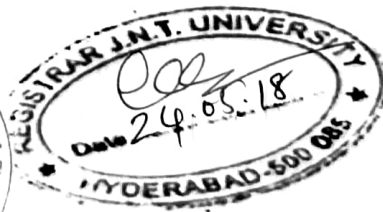
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Thanking you Sir,

Yours Faithfully,

HOD CSE, SNTL



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Scient Institute of Technology
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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:11/04/2018

1580/

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,

SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRONICS AND COMMUNICATION ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2018-2019 , for enhancement of employment opportunities for students-Reg

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- 1 Cloud Computing Techniques (III Year)
2. Navigation System and sensors (IV Year)
3. Navigation System and sensors laboratory (IV Year)

These technologies would certainly enable majority of the engineering graduates for employment Training support can be taken from the industries.

I hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir,

Yours Faithfully,

HOD ECE, SNTI.

A. Shamsi



PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 506



SCIENT INSTITUTE OF TECHNOLOGY

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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:04/07/2018

17118/2

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,
SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRICAL & ELECTRONICS
ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH
Curriculum for the academic year 2018-2019 , for enhancement of employment opportunities for
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introducing the following technologies which are being used widely in t industry.

1.IV-I- HVE (HIGH VOLTAGE ENGINEERING)

- a).Latest Trends in HVE
- b). Gas as insulating media
- c).Onlineandoffline tap changers
- d). Testing of HV transformer

IV-I-EDS(Electrical Distribution Systems)

- a).Typesof subtransmission systems
- b)radial andloop type of primary feeders
- c)Types of substation buses

2. III-II- EMI(Electrical Measuring Instrumentation)

- a). Measurement of mutual inductance by cambel bridge

3.III-I- PS-II(Power systems-II)

- a). Effect of ground capacitance
- b).Skin , Proximity and Ferranti effect

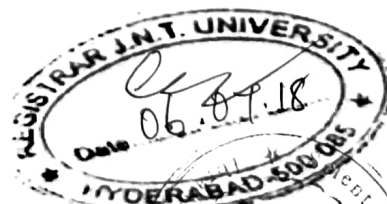
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Thanking you Sir,
Yours Faithfully,
HOD EEE ENH

PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 506





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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date: 27/05/2017

4430/

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,

SUB: SCIENT INSTITUTE OF TECINOLOGY , COMPUTER SCIENCE AND ENGINEERING
Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the
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1. Big Data Analytics
2. Internet of Things (IOT)
3. Mobile Application Development
4. Cyber Security
5. Mat Lab Programming

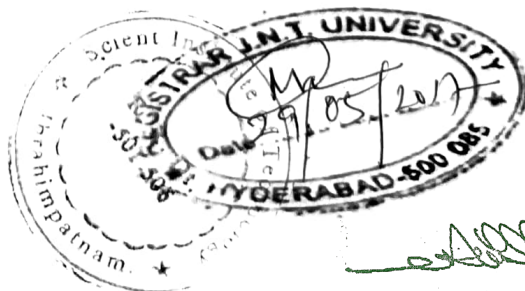
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Thanking you Sir,

Yours Faithfully,


HOD CSE, SNTI.




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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:14/04/2017

1581/

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,
SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRONICS AND COMMUNICATION ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH Curriculum for the academic year 2017-2018 , for enhancement of employment opportunities for students-Reg

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1. Cognitive Network ad Sensing and Big date
2. Internet of Things
3. Advanced sensors and Interface
4. Mobile Application Development
5. MATLAB Programming and High frequency simulation lab
6. VLSI Laboratory.
7. Pattern Recognition and Machine learning

These technologies would certainly enable majority of the engineering graduates for employment Training support can be taken from the industries.

I hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir,

Yours Faithfully,

HOD ECE, SNTI.

A. Jhansi

PRINCIPAL

Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 506





SCIENT INSTITUTE OF TECHNOLOGY

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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

Ref:

Date:03/07/2017

To The Registrar
JNTUH UNIVERSITY, Kukatpally
HYDERABAD-500085

Sir,

**SUB: SCIENT INSTITUTE OF TECINOLOGY , ELECTRICAL & ELECTRONICS
ENGINEERING Dept -Requesting to incorporate latest technologies/New courses as part of JNTUH
Curriculum for the academic year 2017-2018 , for enhancement of employment opportunities for
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IV-I-EDS(Electrical Distribution Systems)

- a).Typesof subtransmission systems
- b)radial andloop type of primary feeders
- c)Types of substation buses

2. II-II- (CONTROL SYSTEMS)

- a). Polar plot and nyquist criterion

3.II-I- Electrical Machines-I

- a). Scott connection of transformers

These technologies would certainly enable majority of the engineering graduates for employment Training support can be taken from the industries.

I hope you would consider my request and take initiative in introducing the above mentioned technologies as part of JNTUH curriculum.

Thanking you Sir,

Yours Faithfully,

HOD EEE



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ACTION TAKEN BY JNTUH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING
COURSE STRUCTURE & SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA101BS	Matrices and Calculus	3	1	0	4
2	CH102BS	Engineering Chemistry	3	1	0	4
3	EE103ES	C Programming and Data Structures	3	0	0	3
4	EE105ES	Electrical Circuit Analysis – I	3	0	0	3
5	ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6	EE106ES	Elements of Electrical and Electronics Engineering	0	0	2	1
7	CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8	EE108ES	C Programming and Data Structures Laboratory	0	0	2	1
		Induction Program				
		Total Credits	13	2	10	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2	PH202BS	Applied Physics	3	1	0	4
3	ME203ES	Engineering Workshop	0	1	3	2.5
4	EN204HS	English for Skill Enhancement	2	0	0	2
5	EE205ES	Electrical Circuit Analysis - II	2	0	0	2
6	EE206ES	Applied Python Programming Laboratory	0	1	2	2
7	PH207BS	Applied Physics Laboratory	0	0	3	1.5
8	EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9	EE209ES	Electrical Circuit Analysis Laboratory	0	0	2	1
10	*MC210	Environmental Science	3	0	0	0
		Total Credits	13	2	14	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Numerical Methods and Complex variables	3	1	0	4
2		Electrical Machines-I	3	1	0	4
3		Analog Electronic Circuits	3	0	0	3
4		Power System-I	3	0	0	3
5		Electro Magnetic Fields	3	0	0	3
6		Electrical Machines Laboratory-I	0	0	2	1
7		Analog Electronic Circuits Laboratory	0	0	2	1
8		Electrical Simulation tools Laboratory	0	0	2	1
9	*MC	Gender Sensitization Laboratory	0	0	2	0
		Total Credits	15	2	08	20



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II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Solid Mechanics & Hydraulic Machines	3	1	0	4
2		Measurements and Instrumentation	3	0	0	3
3		Electrical Machines-II	3	0	0	3
4		Digital Electronics	2	0	0	2
5		Power System-II	3	0	0	3
6		Digital Electronics Laboratory	0	0	2	1
7		Measurements and Instrumentation Laboratory	0	0	2	1
8		Electrical Machines Laboratory-II	0	0	2	1
9		Real-time Research Project/ Field Based Project	0	0	4	2
10	*MC	Constitution of India	3	0	0	0
		Total Credits	17	1	10	20

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Power Electronics	3	1	0	4
2		Control Systems	3	1	0	4
3		Microprocessors & Microcontrollers	3	0	0	3
4		Professional Elective-I	3	0	0	3
5		Business Economics and Financial Analysis	3	0	0	3
6		Microprocessors & Microcontrollers Laboratory	0	0	2	1
7		Power Electronics Laboratory	0	0	2	1
8		Advanced English Communication Skills Laboratory	0	0	2	1
9	*MC	Intellectual Property Rights	3	0	0	0
		Total Credits	18	2	6	20

III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3		Signals and Systems	3	0	0	3
4		Power System Protection	3	0	0	3
5		Power System Operation and Control	3	0	0	3
6		Power System Laboratory	0	0	2	1
7		Control Systems Laboratory	0	0	2	1
8		Digital Signal Processing Lab	0	0	2	1
9		Industry Oriented Mini Project/ Internship	0	0	4	2
10	*MC	Environmental Science	3	0	0	0
		Total Credits	18	0	10	20

Environmental Science in III Yr II Sem Should be Registered by Lateral Entry Students Only.



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IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Power Electronic Applications to Renewable Energy Systems	3	1	0	4
2		Open Elective-II	3	0	0	3
3		Professional Elective-III	3	0	0	3
4		Professional Elective-IV	3	0	0	3
5		Fundamentals of Management for Engineers	2	0	0	2
6		Simulation of Renewable Energy Systems Laboratory	0	0	4	2
7		Project Stage - I	0	0	6	3
		Total Credits	14	1	10	20

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective-III	3	0	0	3
2		Professional Elective-V	3	0	0	3
3		Professional Elective-VI	3	0	0	3
4		Project Stage – II including Seminar	0	0	22	11
		Total Credits	9	0	22	20

MC – Satisfactory/Unsatisfactory*Professional Elective - I**

1	IoT Applications in Electrical Engineering
2	High Voltage Engineering
3	Computer Aided Electrical Machine Design

Professional Elective - II

1	Cyber-Physical Systems
2	Power Semiconductor Drives
3	Wind and Solar Energy systems

Professional Elective-III

1	Mobile Application Development
2	Digital Signal Processing
3	Electric and Hybrid Vehicles

Professional Elective-IV

1	HVDC Transmission
2	Power System Reliability
3	Embedded Systems Applications

Professional Elective-V

1	Power Quality & FACTS
2	Solar Power Batteries
3	AI Techniques in Electrical Engineering


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Professional Elective-VI

1	Smart Grid Technologies
2	Electrical Distribution Systems
3	Machine Learning Applications to Electrical Engineering

OPEN ELECTIVES**Open Elective-I:**


1	Renewable Energy Sources
2	Fundamental of Electric Vehicles

Open Elective-II:

1	Utilization of Electric Energy
2	Energy Storage Systems

Open Elective-III:

1	Charging Infrastructure for Electric Vehicles
2	Reliability Engineering


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in COMPUTER SCIENCE AND ENGINEERING
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester


S. No.	Course Code	Course	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	CH102BS	Engineering Chemistry	3	1	0	4
3.	CS103ES	Programming for Problem Solving	3	0	0	3
4.	EE104ES	Basic Electrical Engineering	2	0	0	2
5.	ME105ES	Computer Aided Engineering Graphics	1	0	4	3
6.	CS106ES	Elements of Computer Science & Engineering	0	0	2	1
7.	CH107BS	Engineering Chemistry Laboratory	0	0	2	1
8.	CS108ES	Programming for Problem Solving Laboratory	0	0	2	1
9.	EE109ES	Basic Electrical Engineering Laboratory	0	0	2	1
		Induction Program				
		Total	12	2	12	20

I Year II Semester

S. No.	Course Code	Course	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	PH202BS	Applied Physics	3	1	0	4
3.	ME203ES	Engineering Workshop	0	1	3	2.5
4.	EN204HS	English for Skill Enhancement	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	CS206ES	Python Programming Laboratory	0	1	2	2
7.	PH207BS	Applied Physics Laboratory	0	0	3	1.5
8.	EN208HS	English Language and Communication Skills Laboratory	0	0	2	1
9.	CS209ES	IT Workshop	0	0	2	1
10.	*MC210	Environmental Science	3	0	0	0
		Total	13	4	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Digital Electronics	3	0	0	3
2		Data Structures	3	0	0	3
3		Computer Oriented Statistical Methods	3	1	0	4
4		Computer Organization and Architecture	3	0	0	3
5		Object Oriented Programming through Java	3	0	0	3
6		Data Structures Lab	0	0	3	1.5
7		Object Oriented Programming through Java Lab	0	0	3	1.5
8		Data visualization- R Programming/ Power BI	0	0	2	1
9	*MC	Gender Sensitization Lab	0	0	2	0
		Total	15	1	10	20


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YEAR II SEMESTER						
S. No.	Course Code	Course Title	L	T	P	Credits
1		Discrete Mathematics	3	0	0	3
2		Business Economics & Financial Analysis	3	0	0	3
3		Operating Systems	3	0	0	3
4		Database Management Systems	3	0	0	3
5		Software Engineering	3	0	0	3
6		Operating Systems Lab	0	0	2	1
7		Database Management Systems Lab	0	0	2	1
8		Real-time Research Project/ Societal Related Project	0	0	4	2
9		Node JS/ React JS/ Django	0	0	2	1
10	*MC	Constitution of India	3	0	0	0
		Total	18	0	10	20

III YEAR I SEMESTER						
S. No.	Course Code	Course Title	L	T	P	Credits
1		Design and Analysis of Algorithms	3	1	0	4
2		Computer Networks	3	0	0	3
3		DevOps	3	0	0	3
4		Professional Elective-I	3	0	0	3
5		Professional Elective -II	3	0	0	3
6		Computer Networks Lab	0	0	2	1
7		DevOps Lab	0	0	2	1
8		Advanced English Communication Skills Lab	0	0	2	1
9		UI design- Flutter	0	0	2	1
10	*MC	Intellectual Property Rights	3	0	0	0
		Total	18	1	8	20

S. No.	Course Code	Course Title	L	T	P	Credits
1		Machine Learning	3	0	0	3
2		Formal Languages and Automata Theory	3	0	0	3
3		Artificial Intelligence	3	0	0	3
4		Professional Elective – III	3	0	0	3
5		Open Elective-I	3	0	0	3
6		Machine Learning Lab	0	0	2	1
7		Artificial Intelligence Laboratory	0	0	2	1
8		Professional Elective-III Lab	0	0	2	1
9		Industrial Oriented Mini Project/ Internship/ Skill Development Course (Big data-Spark)	0	0	4	2
10	*MC	Environmental Science	3	0	0	0
		Total	18	0	8	20

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Environmental Science in III Yr II Sem Should be Registered by Lateral Entry Students Only.

IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Cryptography and Network Security	3	0	0	3
2		Compiler Design	3	0	0	3
3		Professional Elective -IV	3	0	0	3
4		Professional Elective -V	3	0	0	3
5		Open Elective - II	3	0	0	3
6		Cryptography and Network Security Lab	0	0	2	1
7		Compiler Design Lab	0	0	2	1
8		Project Stage - I	0	0	6	3
		Total Credits	15	0	10	20

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Organizational Behavior	3	0	0	3
2		Professional Elective – VI	3	0	0	3
3		Open Elective – III	3	0	0	3
4		Project Stage – II including Seminar	0	0	22	11
		Total Credits	9	0	22	20

*MC – Satisfactory/Unsatisfactory

#Skill Course - 1 credit with 2 Practical Hours

Professional Elective - I

	Quantum Computing
	Advanced Computer Architecture
	Data Analytics
	Image Processing
	Principles of Programming Languages

Professional Elective - II

	Computer Graphics
	Embedded Systems
	Information Retrieval Systems
	Distributed Databases
	Natural Language Processing

Professional Elective - III

	Full Stack Development
	Internet of Things
	Scripting Languages
	Mobile Application Development
	Software Testing Methodologies

Courses in PE - III and PE - III Lab must be in 1-1 correspondence.


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Professional Elective -IV

	Graph Theory
	Advanced Operating Systems
	Soft Computing
	Cloud Computing
	Ad hoc & Sensor Networks

Professional Elective -V

	Advanced Algorithms
	Agile Methodology
	Robotic Process Automation
	Blockchain Technology
	Software Process & Project Management

Professional Elective – VI

	Computational Complexity
	Distributed Systems
	Deep Learning
	Human Computer Interaction
	Cyber Forensics

Open Elective -1:


1. Data Structures
2. Database Management Systems

Open Elective -2:

1. Operating Systems
2. Software Engineering

Open Elective -3:

1. Algorithms Design and Analysis
2. Introduction to Computer Networks


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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING
COURSE STRUCTURE, I & II YEAR SYLLABUS (R22 Regulations)
Applicable from AY 2022-23 Batch

I Year I Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA101BS	Matrices and Calculus	3	1	0	4
2.	PH102BS	Applied Physics	3	1	0	4
3.	EC103ES	C Programming for Engineers	3	0	0	3
4.	ME104ES	Engineering Workshop	0	1	3	2.5
5.	EN105HS	English for Skill Enhancement	2	0	0	2
6.	EC106ES	Elements of Electronics and Communication Engineering	0	0	2	1
7.	PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	EC108ES	C Programming for Engineers Laboratory	0	0	2	1
9.	EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	*MC110	Environmental Science	3	0	0	0
		Induction Programme				
Total			14	3	12	20

I Year II Semester

S. No.	Course Code	Course Title	L	T	P	Credits
1.	MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	CH202BS	Engineering Chemistry	3	1	0	4
3.	ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	EE204ES	Basic Electrical Engineering	2	0	0	2
5.	EC205ES	Electronic Devices and Circuits	2	0	0	2
6.	EC206ES	Applied Python Programming Laboratory	0	1	2	2
7.	CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	EE208ES	Basic Electrical Engineering Laboratory	0	0	2	1
9.	EC209ES	Electronic Devices and Circuits Laboratory	0	0	2	1
Total			11	3	12	20

II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Numerical Methods and Complex Variables	3	1	0	4
2		Analog Circuits	3	0	0	3
3		Network analysis and Synthesis	3	0	0	3
4		Digital Logic Design	3	0	0	3
5		Signals and Systems	3	1	0	4
6		Analog Circuits Laboratory	0	0	2	1
7		Digital logic Design Laboratory	0	0	2	1
8		Basic Simulation Laboratory	0	0	2	1
9	*MC	Constitution of India	3	0	0	0
Total Credits			18	2	6	20

II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Probability Theory and Stochastic Processes	3	0	0	3
2		Electromagnetic Fields and Transmission Lines	3	0	0	3
3		Analog and Digital Communications	3	0	0	3
4		Linear and Digital IC Applications	3	0	0	3
5		Electronic Circuit Analysis	3	0	0	3
6		Analog and Digital Communications Laboratory	0	0	2	1
7		Linear and Digital IC Applications Laboratory	0	0	2	1
8		Electronic Circuit Analysis Laboratory	0	0	2	1
9		Real Time Project/ Field Based Project	0	0	4	2
10	*MC	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	0	12	20


III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Microcontrollers	3	1	0	4
2		IoT Architectures and Protocols	3	0	0	3
3		Control Systems	3	1	0	4
4		Business Economics & Financial Analysis	3	0	0	3
5		Professional Elective – I	3	0	0	3
6		Microcontrollers Laboratory	0	0	2	1
7		IoT Architectures and Protocols Laboratory	0	0	2	1
8		Advanced English Communication Skills Laboratory	0	0	2	1
9	*MC	Intellectual Property Rights	3	0	0	0
		Total Credits	18	2	6	20

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Antennas and Wave Propagation	3	0	0	3
2		Digital Signal Processing	3	0	0	3
3		CMOS VLSI Design	3	0	0	3
4		Professional Elective - II	3	0	0	3
5		Open Elective – I	3	0	0	3
6		Digital Signal Processing Laboratory	0	0	2	1
7		CMOS VLSI Design Laboratory	0	0	2	1
8		Advanced Communication Laboratory	0	0	2	1
9		Industry Oriented Mini Project/ Internship	0	0	4	2
10	*MC	Environmental Science	3	0	0	0
		Total Credits	18	0	10	20

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IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Microwave and Optical Communications	3	1	0	4
2		Professional Elective – III	3	0	0	3
3		Professional Elective – IV	3	0	0	3
4		Open Elective – II	3	0	0	3
5		Professional Practice, Law & Ethics	3	0	0	2
6		Microwave and Optical Communications Laboratory	0	0	4	2
7		Project Stage – I	0	0	6	3
		Total Credits	15	1	10	20

IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Professional Elective – V	3	0	0	3
2		Professional Elective – VI	3	0	0	3
3		Open Elective – III	3	0	0	3
4		Project Stage – II including Seminar	0	0	22	11
		Total Credits	9	0	22	20

MC – Satisfactory/Unsatisfactory*Professional Elective – I**

EC511PE	Computer Organization & Operating Systems
EC512PE	Data Communications and Computer Networks
EC513PE	Electronic Measurements and Instrumentation

Professional Elective – II

EC611PE	Digital Image Processing
EC612PE	Mobile Communications and Networks
EC613PE	Embedded System Design

Professional Elective – III

EC711PE	Radar Systems
EC712PE	CMOS Analog IC Design
EC713PE	Artificial Neural Networks

Professional Elective – IV

EC721PE	Network Security and Cryptography
EC722PE	Satellite Communications
EC723PE	Biomedical Instrumentation

Professional Elective – V

EC811PE	Artificial Intelligence
EC812PE	5G and beyond Communications
EC813PE	Machine learning

Professional Elective – VI

EC821PE	Multimedia Database Management Systems
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EC822PE	System on Chip Architecture
EC823PE	Wireless sensor Networks

Open Electives

Open Elective (OE – I)	Open Elective (OE – II)	Open Elective (OE – III)
<ol style="list-style-type: none">1. Fundamentals of Internet of Things2. Principles of Signal Processing3. Digital Electronics for Engineering	<ol style="list-style-type: none">1. Electronic Sensors2. Electronics for Health Care3. Telecommunications for Society	<ol style="list-style-type: none">1. Measuring Instruments2. Communication Technologies3. Fundamentals of Social Networks


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IBRAHIMPATNAM, RANGA REDDY DISTRICT- 501 506. TELANGANA

Website : www.scient.ac.in, E-mail : scient_insteng@yahoo.co.in

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. COMPUTER SCIENCE AND ENGINEERING

IV YEAR COURSE STRUCTURE & SYLLABUS (R16)

Applicable From 2016-17 Admitted Batch

IV YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CS701PC	Data Mining	4	0	0	4
2	CS702PC	Principles of Programming Languages	4	0	0	4
3		Professional Elective – II	3	0	0	3
4		Professional Elective – III	3	0	0	3
5		Professional Elective – IV	3	0	0	3
6	CS703PC	Data Mining Lab	0	0	3	2
7		PE-II Lab [#]	0	0	3	2
	CS751PC	Python Programming Lab				
	CS752PC	Mobile Application Development Lab				
	CS753PC	Web Scripting Languages Lab				
	CS754PC	Internet of Things Lab				
8	CS705PC	Industry Oriented Mini Project	0	0	3	2
9	CS706PC	Seminar	0	0	2	1
		Total Credits	17	0	11	24

IV YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1		Open Elective – III	3	0	0	3
2		Professional Elective – V	3	0	0	3
3		Professional Elective – VI	3	0	0	3
4	CS801PC	Major Project	0	0	30	15
		Total Credits	9	0	30	24

Professional Elective – I

CS611PE	Mobile Computing
CS612PE	Design Patterns
CS613PE	Artificial Intelligence
CS614PE	Information Security Management (Security Analyst - I)
CS615PE	Introduction to Analytics (Associate Analytics - I)

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Professional Elective - II

CS721PE	Python Programming
CS722PE	Mobile Application Development
CS723PE	Web Scripting Languages
CS724PE	Internet of Things

Professional Elective - III

CS731PE	Graph Theory
CS732PE	Distributed Systems
CS733PE	Machine Learning
CS734PE	Software Process and Project Management

Professional Elective - IV

CS741PE	Computational Complexity
CS742PE	Cloud Computing
CS743PE	Blockchain Technology
CS744PE	Social Network Analysis

Professional Elective - V

CS851PE	Information Theory & Coding
CS852PE	Real-Time Systems
CS853PE	Data Analytics
CS854PE	Modern Software Engineering

Professional Elective - VI

CS861PE	Advanced Algorithms
CS862PE	Web Services and Service Oriented Architecture
CS863PE	Computer Forensics
CS864PE	Neural Networks and Deep Learning



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech. in COMPUTER SCIENCE AND ENGINEERING

III YEAR COURSE STRUCTURE AND SYLLABUS (R18)
Applicable From 2018-19 Admitted Batch

III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS501PC	Formal Languages & Automata Theory	3	0	0	3
2	CS502PC	Software Engineering	3	0	0	3
3	CS503PC	Computer Networks	3	0	0	3
4	CS504PC	Web Technologies	3	0	0	3
5		Professional Elective-I	3	0	0	3
6		Professional Elective -II	3	0	0	3
7	CS505PC	Software Engineering Lab	0	0	3	1.5
8	CS506PC	Computer Networks & Web Technologies Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	0	8	22

III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	CS601PC	Machine Learning	3	1	0	4
2	CS602PC	Compiler Design	3	1	0	4
3	CS603PC	Design and Analysis of Algorithms	3	1	0	4
4		Professional Elective – III	3	0	0	3
5		Open Elective-I	3	0	0	3
6	CS604PC	Machine Learning Lab	0	0	3	1.5
7	CS605PC	Compiler Design Lab	0	0	3	1.5
8		Professional Elective-III Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

***MC - Environmental Science – Should be Registered by Lateral Entry Students Only.**

Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective-I

CS511PE	Information Theory & Coding
CS512PE	Advanced Computer Architecture
CS513PE	Data Analytics
CS514PE	Image Processing
CS515PE	Principles of Programming Languages

Professional Elective - II

CS521PE	Computer Graphics
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Assistant Professor
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