



# SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Sponsored by Sreyas Educational Society)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

Accredited by NAAC

05 August 2020

To

The Registrar  
JNTUH Kukatpally,  
Hyderabad – 500085.

Respected sir,

Sub: Sreyas Institute of Engineering and Technology, request 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.

I would like to bring the following for your kind perusal for favorable action.

This is to bring your kind attention that the engineering students are unable to get suitable employment after the completion of their graduation. Though a lot of effort 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 results if the university can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No.	CE	CSE	ECE	ME
1.	Pre stressed concrete	Python programming	Control Systems	Metrology and Machine Tools
2.	Irrigation and Hydraulic Structures	Grid computing	Artificial Intelligence	Finite Element Methods
3.	Advanced Structural Analysis	Data analytics	Very Large Scale Integration	

These technologies would certainly enable the 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 the JNTUH curriculum.

Thanking You.

Yours faithfully  
**PRINCIPAL**

**SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY**  
9-39, Sy.No: 107, Tattiannaram (V),  
GSI, Bandlaguda, Nagole, Hyderabad - 500068 (INDIA)



# SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Sponsored by Sreyas Educational Society)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

Accredited by NAAC

26 April 2019

To  
The Registrar  
JNTUH Kukatpally,  
Hyderabad – 500085  
Respected sir,

Sub: Sreyas Institute of Engineering and Technology, request 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 for favorable action.

This is to bring your kind attention that the engineering students are unable to get suitable employment after the completion of their graduation. Though a lot of effort 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 results if the university can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No.	CE	CSE	ECE	ME
1.	Irrigation and Hydraulic Structures	Machine Learning	Digital Image Processing	Instrumentation and Control Systems
2.	Prestressed concrete	Cyber security	Antenna Wave Propagation	Finite Element Methods
3.	Concrete Technology	Block chain Technologies	Embedded System Design	Refrigerator and Air Conditioning
4.		Internet of Things	Aptitude and communication skills	

These technologies would certainly enable the 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 the JNTUH curriculum.

Thanking You.

*Aswath*  
Yours faithfully  
PRINCIPAL  
SREYAS INSTITUTE OF ENGG & TECH.  
9-39, Sy.No. 107, Tattiannaram (V),  
GSI, Bandlaguda, Nagole, Hyd-68.





# SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Sponsored by Sreyas Educational Society)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

Accredited by NAAC

Date: 18/04/2018

To

The Registrar,  
JNTUH Kukatpally,  
HYDERABAD-500085.

Respected Sir,,

**Sub: SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, Request 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.**

I would like to bring the following for your kind perusal for favorable action.

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 results if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No	CSE	ECE	CE	ME
1.	Android Application	Embedded System Design Laboratory	Concrete Technology	CAD/CAM
2.	R Programming	Advance Antenna Design Laboratory	Reinforced Concrete Technology	Machine Tools & Metrology
3.	Python Programming	Aptitude And Communication Skills Course	Construction Management	Manufacturing Process
4.	Android Application	Internship As Mandatory Course		Refrigeration And Air Conditioning
5.	Block Chain Technology			

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

*Principal*  
Principal

SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Beside Indu Aranya,  
Bandlaguda, Tattiannaram, Hyderabad-68

9-39, Sy No 107, Tattiannaram (V), G.S.I. Bandlaguda, Nagole, Hyd., T.S. - 500 068 (INDIA)

Ph. : 040-65814415, 9959655755, 9393421213





# SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Sponsored by Sreyas Educational Society)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad

Accredited by NAAC

Date: 22.05.2017

To

The Registrar,  
JNTUH Kukatpally,  
HYDERABAD-500085.

Respected Sir,

**Sub: SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, Request 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.**

I would like to bring the following for your kind perusal for favorable action.

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 results if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No	CSE	ECE	CE	ME
1.	Cloud Computing	Cloud Computing Techniques	Prestress Concrete	Automobile Engineering
2.	Machine Learning	Navigation System and Sensors	Waste Water Managements	Renewable Energy Resources
3.	Data Science	Navigation System And Sensor Laboratory	RS&GIS	Manufacturing Process
4.	Android Application Development	Systems, Applications And Products		

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

*A. Suresh*  
Principal

PRINCIPAL

SREYAS INSTITUTE OF ENGG. & TECH

D.No. 9-39, Beside Indu Aranya,

Bandlaguda, Tattianaram, Hyderabad-68

9-39, Sy No 107, Tattianaram (V), G.S.I. Bandlaguda, Nagole, Hyd., T.S. - 500 068 (INDIA)

Ph. : 040-65814415, 9959655755, 9393421213





# SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY

(Sponsored by Sreyas Educational Society)  
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyd)

Date: 15/04/2016

To

The Registrar,  
JNTUH Kukatpally,  
HYDERABAD-500085.  
Respected Sir,

**Sub: SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY, Request to incorporate latest technologies, new courses as part of JNTUH Curriculum for the academic year-2016-2017-for enhancement of employment opportunities for Students-Reg.**

I would like to bring the following for your kind perusal for favorable action.

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 results if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No	CSE	ECE	CE	ME
1.	Cyber Security	Cognitive Networked Sensing And Big Data	Geo Technical Engineering	Instrumentation And Control Systems
2.	Internet Of Things (IOT)	Internet Of Things (IOT)	Building Materials	Refrigeration And Air Condition
3.	Big Data Analytics	Advanced Sensors And Interface Electronics		
4.	MAT Lab Programming	MAT Lab Programming And High Frequency Simulation Lab		
5.		VLSI Laboratory		
6.		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  
*Asuresh*  
Principal

PRINCIPAL  
SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Tattiannaram, G.S.I. Bandlaguda, Nagole, Hyderabad - 500 068

9-39, Sy. No. 107, Tattiannaram, G.S.I. Bandlaguda, Nagole, Hyderabad - 500 068

Ph. : 040-65814415, 9959655755, 9393421213

www.sreyas.ac.in  
sreyascollege@gmail.com  
info@sreyas.ac.in





# SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY

(Sponsored by Sreyas Educational Society)

Date: 16/05/2015 Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyd)

To  
The Registrar,  
JNTUH Kukatpally,  
HYDERABAD-500085.  
Respected Sir,

**Sub:- SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY-Request to incorporate latest technologies, new courses as part of JNTUH Curriculum for the academic year-2015-16-for enhancement of employment opportunities for Students-Reg.**

I would like to bring the following for your kind perusal for favorable action.

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 results if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No	CSE	ECE	CE	ME
1.	Internet Of Things	Internet Of Things (IOT)	Engineering Drawing	Instrumentation And Control Systems
2.	Computer Organization Lab	CBS (Choice Based Credit System)		Production Technology
3.	Cloud Computing	Industry Supporting Laboratories		
4.	SAP	Aptitude And Communication Skills Course		

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

*Asuresh*  
Principal

PRINCIPAL

SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Beside Indu Aranya,

9-39, Sy. No. 107, Tattiannaram, G.S.I. Bandlaguda, Nagole, Hyderabad - 500 068

Ph. : 040-65814415, 9959655755, 9393421213





# SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY

(Sponsored by Sreyas Educational Society)  
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyd)

Date: 25/4/2014

To  
The Registrar,  
JNTUH Kukatpally,  
HYDERABAD-500085.  
Respected Sir,

**Sub:- SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY-Request to incorporate latest technologies, new courses as part of JNTUH Curriculum for the academic year-2014-15-for enhancement of employment opportunities for Students-Reg.**

I would like to bring the following for your kind perusal for favorable action.

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 results if the University can take the initiative of introducing the following technologies which are being used widely in the industry.

S.No	CSE	ECE	ME
1.	Computer Forensics	Introduction To Advanced Microprocessors (8v186, 80286 Pentium)	CAD/CAM
2.	Artificial Intelligence	Advance Microprocessor Laboratory	Strength Of Materials
3.	Mobile Computing	Advance Digital Communication Laboratory.	Automobile Engineering
4.	Software Process Management	Basic Signal Processing Laboratory	
5.	Big Data Analytics		

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

*Asuresh*  
Principal

PRINCIPAL

SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Beside Indu Aranya

9-39, Sy. No. 107, Tattiannaram, G.S.I. Bandlaguda, Nagole, Hyderabad - 500 068

Ph. : 040-65814415, 9959655755, 9393421213



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**B.Tech. in CIVIL ENGINEERING**  
**III YEAR COURSE STRUCTURE AND SYLLABUS (R18)**  
**Applicable From 2018-19 Admitted Batch**

18-19

**III YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P/D	Credits
4	CE501	Structural Analysis-II	3	0	0	3
2	CE502PC	Geotechnical Engineering	3	0	0	3
3	CE503PC	Structural Engineering –I (RCC)	3	1	0	4
4	CE504PC	Transportation Engineering	3	0	0	3
5		Professional Elective-I	3	0	0	3
6	SM505MS	Engineering Economics and Accountancy	2	0	0	2
7	CE506PC	Highway Engineering and Concrete Technology Lab	0	0	3	1.5
8	CE507PC	Geotechnical Engineering Lab	0	0	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC509	Intellectual Property Rights	3	0	0	0
		<b>Total Credits</b>	<b>20</b>	<b>1</b>	<b>8</b>	<b>22</b>

**III YEAR II SEMESTER**

S. No	Course Code	Course Title	L	T	P	Credits
1	CE601PC	Hydrology & Water Resources Engineering	3	1	0	4
1	CE602PC	Environmental Engineering	3	0	0	3
2	CE603PC	Foundation Engineering	3	0	0	3
3	CE604PC	Structural Engineering –II (Steel)	3	1	0	4
5		Professional Elective –II	3	0	0	3
6		Open Elective –I	3	0	0	3
7	CE605PC	Environmental Engineering Lab	0	0	2	1
8	CE606PC	Computer Aided Design Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		<b>Total Credits</b>	<b>21</b>	<b>2</b>	<b>4</b>	<b>22</b>

**\*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**

CE511PE	Concrete Technology
CE512PE	Theory of Elasticity
CE513PE	Rock Mechanics

**Professional Elective – II**

CE611PE	Prestressed Concrete
CE612PE	Elements of Earth Quake Engineering
CE613PE	Advanced Structural Analysis

*Aburach*  
**PRINCIPAL**  
 SREYAS INSTITUTE OF ENGG. & TECH  
 D.No. 9-39, Beside Indu Aranya,  
 Bandlaguda, Tattianaram, Hyderabad-68



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. CIVIL ENGINEERING  
IV YEAR COURSE STRUCTURE & SYLLABUS (R16)16-17

Admitted From 2016-17 Admitted Batch

## IV YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE701PC	Transportation Engineering	4	0	0	4
2	CE702PC	Estimation Quantity Surveying and Valuation	4	1	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	CE703PC	Transportation Engineering Lab	0	0	3	2
7	CE704PC	Environmental Engineering Lab	0	0	3	2
8	CE705PC	Industry Oriented Mini Project	0	0	3	2
9	CE706PC	Seminar	0	0	2	1
		<b>Total Credits</b>	<b>17</b>	<b>1</b>	<b>11</b>	<b>24</b>

## 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	CE801PC	Major Project	0	0	30	15
		<b>Total Credits</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>24</b>

## Professional Elective - I

CE611PE	Air Pollution and Control.
CE612PE	Advanced Structural Analysis.
CE613PE	Ground Water Development and Management.
CE614PE	Earth and Rock fill Dams and Slope Stability.

## Professional Elective – II

CE721PE	Stochastic Hydrology.
CE722PE	Construction Technology and Management.
CE723PE	Foundation Engineering.
CE724PE	Rehabilitation and Retrofitting of Structures.

Asuresh

PRINCIPAL

SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Beside Indu Aranya,  
Bandlaguda, Tattianaram, Hyderabad-68



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. MECHANICAL ENGINEERING  
IV YEAR COURSE STRUCTURE & SYLLABUS (R16)

16-17

Applicable From 2016-17 Admitted Batch

## IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME701PC	CAD/CAM	4	0	0	4
2	ME702PC	Instrumentation and Control System	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	ME703PC	CAD/CAM Lab	0	0	3	2
7	ME704PC	Instrumentation and Control Systems Lab	0	0	3	2
8	ME705PC	Industry Oriented Mini Project	0	0	3	2
9	ME706PC	Seminar	0	0	2	1
		<b>Total Credits</b>	<b>17</b>	<b>0</b>	<b>11</b>	<b>24</b>

## 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	ME801PC	Major Project	0	0	30	15
		<b>Total Credits</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>24</b>

## Professional Elective - I

ME611PE	Finite Element Methods
ME612PE	Refrigeration and Air Conditioning
ME613PE	Machine Tool Design
ME614PE	IC Engines and Gas Turbines

## Professional Elective - II

ME721PE	Composite materials
ME722PE	Industrial Management
ME723PE	Power Plant Engineering
ME724PE	Operations Research

A. Suresh



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. MECHANICAL ENGINEERING  
III YEAR COURSE STRUCTURE & SYLLABUS (R16)

16-17

Applicable From 2016-17 Admitted Batch

## III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME501PC	Design of Machine Members - I	4	1	0	4
2	ME502PC	Thermal Engineering-I	4	1	0	4
3	ME503PC	Metrology and Machine Tools	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective - I	3	0	0	3
6	ME505PC	Thermal Engineering Lab	0	0	3	2
7	ME506PC	Machine Tools Lab	0	0	3	2
8	ME507PC	Engineering Metrology Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		<b>Total Credits</b>	<b>21</b>	<b>3</b>	<b>9</b>	<b>24</b>

## III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME601PC	Thermal Engineering -II	4	1	0	4
2	ME602PC	Design of Machine Members-II	4	1	0	4
3	ME603PC	Heat Transfer	4	1	0	4
4		Open Elective - II	3	0	0	3
5		Professional Elective - I	3	0	0	3
6	ME604PC	Heat Transfer Lab	0	0	3	2
7	ME605PC	CADD and MATLAB	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		<b>Total Credits</b>	<b>18</b>	<b>3</b>	<b>9</b>	<b>24</b>

During Summer Vacation between III and IV Years: Industry Oriented Mini Project

Aburash

PRINCIPAL  
SREYAS INSTITUTE OF ENGG. & TECH  
D No. 9-39, Beside Indu Aranya,  
Bandlaguda, Tattinnaram, Hyderabad-68



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. ELECTRONICS AND COMMUNICATION ENGINEERING  
IV YEAR COURSE STRUCTURE & SYLLABUS (R16)

16-17

Applicable From 2016-17 Admitted Batch

## IV YEAR I SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	EC701PC	Microwave Engineering	4	0	0	4
2		Professional Elective - II	3	0	0	3
3		Professional Elective - III	3	0	0	3
4		Professional Elective - IV	3	0	0	3
5	EC702PC	VLSI Design	4	0	0	4
6	EC703PC	VLSI and E-CAD Lab	0	0	3	2
7	EC704PC	Microwave Engineering Lab	0	0	3	2
8	EC705PC	Industry Oriented Mini Project	0	0	3	2
9	EC706PC	Seminar	0	0	2	1
		<b>Total Credits</b>	<b>17</b>	<b>0</b>	<b>11</b>	<b>24</b>

## 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	EC801PC	Major Project	0	0	30	15
		<b>Total Credits</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>24</b>

## Professional Elective – I

EC611PE	Computer Organization and Operating System
EC612PE	Digital Image Processing
EC613PE	Spread Spectrum Communications
EC614PE	Digital system Design

## Professional Elective – II

EC721PE	Computer Networks
EC722PE	FPGA Programming
EC723PE	Coding Theory and Techniques
EC724PE	Soft Computing Techniques

*A. Suresh*

PRINCIPAL  
GREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39, Beside Indu Aranya,  
Bandlaguda, Tattianaram, Hyderabad-68



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING**

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

18-19

**III YEAR I SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC501PC	Microprocessors & Microcontrollers	3	1	0	4
2	EC502PC	Data Communications and Networks	3	1	0	4
3	EC503PC	Control Systems	3	1	0	4
4	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5		Professional Elective - I	3	0	0	3
6	EC505PC	Microprocessors & Microcontrollers Lab	0	0	3	1.5
7	EC506PC	Data Communications and Networks Lab	0	0	3	1.5
8	EN508HS	Advanced Communication Skills Lab	0	0	2	1
9	*MC510	Intellectual Property Rights	3	0	0	0
		<b>Total Credits</b>	<b>18</b>	<b>3</b>	<b>8</b>	<b>22</b>

**III YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	T	P	Credits
1	EC601PC	Antennas and Propagation	3	1	0	4
2	EC602PC	Digital Signal Processing	3	1	0	4
3	EC603PC	VLSI Design	3	1	0	4
4		Professional Elective - II	3	0	0	3
5		Open Elective - I	3	0	0	3
6	EC604PC	Digital Signal Processing Lab	0	0	3	1.5
7	EC605PC	e – CAD Lab	0	0	3	1.5
8	EC606PC	Scripting Languages Lab	0	0	2	1
9	*MC609	Environmental Science	3	0	0	0
		<b>Total Credits</b>	<b>18</b>	<b>3</b>	<b>8</b>	<b>22</b>

**\*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**

EC511PE	Computer Organization & Operating Systems
EC512PE	Error Correcting Codes
EC513PE	Electronic Measurements and Instrumentation

**Professional Elective – II**

EC611PE	Object Oriented Programming through Java
EC612PE	Mobile Communications and Networks
EC613PE	Embedded System Design

*Aswath*  
**PRINCIPAL**  
 SREVA'S INSTITUTE OF ENGG. & TECH  
 D.No. 9-39, Beside Indu Aranya,  
 Sandlaguda, Tattianaram, Hyderabad-68



**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**

18-19

**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
		<b>Total Credits</b>	<b>21</b>	<b>0</b>	<b>8</b>	<b>22</b>

**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
		<b>Total Credits</b>	<b>18</b>	<b>3</b>	<b>8</b>	<b>22</b>

**\*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
---------	-------------------

*Asuresh*  
**PRINCIPAL**  
**SREKAS INSTITUTE OF ENGG. & TECH**  
 D.No. 9-39, Beside Indu Branya,  
 Bandlaguda, Tattianaram, Hyderabad-68



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B.TECH. COMPUTER SCIENCE AND ENGINEERING  
IV YEAR COURSE STRUCTURE & SYLLABUS (R16)**

16-17

**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
		<b>Total Credits</b>	<b>17</b>	<b>0</b>	<b>11</b>	<b>24</b>

# Courses in PE - II and PE - II Lab must be in 1-1 correspondence.

**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
		<b>Total Credits</b>	<b>9</b>	<b>0</b>	<b>30</b>	<b>24</b>

**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)

PRINCIPAL  
 SREYAS INSTITUTE OF ENGG. & TECH  
 D.No. 9-39, Beside Indu Aranya,  
 Bandlaguda, Tattianaram, Hyderabad-68



## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.TECH. CIVIL ENGINEERING  
III YEAR COURSE STRUCTURE & SYLLABUS (R16)

16-17

Admitted From 2016-17 Admitted Batch

## III YEAR I SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE501PC	Concrete Technology	4	0	0	4
2	CE502PC	Design of Reinforced Concrete Structures	4	1	0	4
3	CE503PC	Water Resources Engineering	4	0	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective -I	3	0	0	3
6	CE505PC	Concrete Technology Lab	0	0	3	2
7	CE506PC	Geographical Information Systems Lab	0	0	3	2
8	CE507PC	Hydraulics and Hydraulic Machinery Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		<b>Total Credits</b>	<b>21</b>	<b>1</b>	<b>9</b>	<b>24</b>

## III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	P	Credits
1	CE601PC	Design of Steel Structures	4	1	0	4
2	CE602PC	Environmental Engineering	4	0	0	4
3	CE603PC	Soil Mechanics	4	0	0	4
4		Open Elective-II	3	0	0	3
5		Professional Elective-I	3	0	0	3
6	CE604PC	Soil Mechanics Lab	0	0	3	2
7	CE605PC	Computer Aided Drafting - II Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		<b>Total Credits</b>	<b>18</b>	<b>1</b>	<b>9</b>	<b>24</b>

\*During Summer Vacation between III and IV Years: Industry Oriented Mini Project

## Professional Elective - I

CE611PE	Air Pollution and Control.
CE612PE	Advanced Structural Analysis.
CE613PE	Ground Water Development and Management.
CE614PE	Earth and Rock fill Dams and Slope Stability.

A. Suresh

PRINCIPAL  
SREYAS INSTITUTE OF ENGG. & TECH  
D.No. 9-39 Beside Indu Aranya,  
Bandlaguda, Tattannaram, Hyderabad-68