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# SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Sponsored by St. VINCENT EDUCATIONAL SOCIETY)

Regd. No. 5782/2000

(Approved by AICTE, New Delhi and Affiliated to JNTU, Hyderabad)

Kondapur Village, Ghatkesar Mandal, Medchal District (Old R.R. Dist) - 501 301. T.S

# <u>List of Courses in Experential learning</u> 2020-2021

CNC	Program	Program	The state of the s
S.NO	name	code	learning through project work/field
			work/internship
1	-		Engineering Graphics
2.	_		Engineering Mechanics
3	4		Surveying and Geomatics
4	4		Engineering Geology
5	4		Strength of Materials - I
6	4		Fluid Mechanics
7	4		Surveying Lab
8	-		Strength of Materials Lab
9	_		Engineering Geology Lab
10	-		Building Materials, Construction and Planning
11			Strength of Materials - II
12	1		Hydraulics and Hydraulic Machinery
13	1	1	Structural Analysis - I
14			Computer aided Civil Engineering Drawing
15	J <sub>e</sub>		Hydraulics and Hydraulic Machinery Lab
16	1		Basic Electrical and Electronics Engineering Lab
17			Structural Analysis-II
18			Geotechnical Engineering
19	]	1	Structural Engineering –I (RCC)
20	j	1	Transportation Engineering
21			Concrete Technology
22	]	1	Theory of Elasticity / /
23	]	1	Rock Mechanics V / T T V
24			Highway Engineering and Concrete Technology Lab
25	ì		Geotechnical Engineering Lab
26			Hydrology & Water Resources Engineering
27			Environmental Engineering
28	B		Foundation Engineering
29			Structural Engineering -II (Steel)
30			Prestressed Concrete CIPALEGE 1020
31	B.Tech-CE	01	Elements of Earth Quake Engineering
32			Advanced Structural Analysis
33			Structural Engineering —II (Steel)  Prestressed Concrete  Elements of Earth Quake Engineering Advanced Structural Analysis  Environmental Engineering Lab  Computer Aided Design Lab  Transportation Engineering
34			Computer Aided Design Lab
35			Transportation Engineering

25	_	1		
35			Estimation Quantity Surveying and Valuation	
37			Stochastic Hydrology.	
38	_	1	Construction Technology and Management.	
39	-		Foundation Engineering.	
40	-		Rehabilitation and Retrofitting of Structures	
41	_		Watershed Management.	
42	_	1	Prestressed Concrete.	
43	4	1	Ground Improvement Techniques.	
44	4	4	Railway and Airport Engineering.	
45	_		Traffic Engineering.	
46		1	Bridge Engineering.	
47	_		Soil Dynamics and Machine Foundation.	
48	_	ĺ	Irrigation and Hydraulic Structures.	
49	_	1	Transportation Engineering Lab	
50		1	Environmental Engineering Lab	
51	_	1	Industry Oriented Mini Project	
52	_		Seminar	
53	┙	1	Waste Management.	
54	_		Pavement Design.	
55		1	Elements of Earthquake Engineering.	
56	768	1	Water Resources Systems Analysis.	
57			Finite Element Methods for Civil Engineering.	
58		ŀ	Geoenvironmental Engineering.	
59		ý.	Design and Drawing of Irrigation Structures.	
60	7		Industrial Waste Water Treatment.	
61	2		Major Project	
62			BASIC ELECTRICAL ENGINEERING	
63	7		ELECTRICAL CIRCUIT ANALYSIS	
64			ELECTRICAL MACHINES - I	
65	1		ELECTRICAL MACHINES LAB - I	
66	1		Electrical Circuits Lab	
67			Electrical Machines – II	
68		l,	Control Systems	
69			Power System - I	
70	1		Electrical Machines Lab - II	
71	1		Control Systems Lab	
72	1 1		Power Electronics	
73	1 1		Power System-II	
74	1		Measurements and Instrumentation	
75	1 1		High Voltage Engineering	
76	1 1		Power System Simulation Lab	
77			Power Electronics Lab	
78				
79			Measurements and Instrumentation Lab	
80	B.Tech-EEE	02	Power Semiconductor Drives	A.
81	חיוברוו-בכב	UZ	Power System Protection RIP, COLLECTINO CHA	(V)
82	1		Power System Operation and Control	
83			Power System Protection Power System Operation and Control Power System Lab Electrical Measurements & Instrumentation and Control Power System Lab	
			Power System Protection  Power System Operation and Control  Power System Lab  Electrical Measurements & Instrumentation GINE  Power Systems - II	
84	1		Power Systems - II	
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13		1	Instrumentation and Control System	
134			Composite materials	
135			Industrial Management	
		1	Power Plant Engineering	
136		- 1	Operations Research	
138		- 1	CAD/CAM Lab	
139		- 1	Instrumentation and Control Systems	Lab
140		1	Automation in Manufacturing	
141			Fluid Power System	
142			Renewable Energy Sources	
143		1	Production Planning and Control	
143	<del></del> -	1	Automobile Engineering	
145	<del></del>		Advanced Mechanics of Solids	
145	- 1		<b>Unconventional Machining Processes</b>	
147			Advanced Materials Technology	
148		-	Major Project	
149	<b>-</b>		Electronic Devices and Circuits	
150	<b></b> ∤		Network Analysis and Transmission Lin	es
151			Digital System Design	
152	<del> </del>	1	Signals and Systems	
153			Probability Theory and Stochastic Proce	esses
154			Electronic Devices and Circuits Lab	
155	<b>-</b>		Digital System Design Lab	
156		ľ	Basic Simulation Lab	
157	<b>-</b>	1	Electromagnetic Fields and Waves	
158	4	ł	Analog and Digital Communications	
159	$\dashv$		Linear IC Applications	
160			Electronic Circuit Analysis	
161	-	1	Analog and Digital Communications Lab	
162	$\dashv$	1	IC Applications Lab	
163	-	ĺ	Electronic Circuit Analysis Lab	
164	B.Tech-ECE	04	Microprocessors & Microcontrollers	
165			Data Communications and Networks	
166			Control Systems	
167	-	1	Microprocessors & Microcontrollers Lab	
168	-{		Data Communications and Networks Lab	
169	-{		Antennas and Propagation	
170	┨	1	Digital Signal Processing	
171	1	1	VLSI Design	
172	1	1	Digital Signal Processing Lab	
173	1		e – CAD Lab	
174	1		Microwave Engineering	
175	·		VLSI Design	
176			VLSI and E-CAD Lab	
177			Microwave Engineering Lab	
178			Industry Oriented Mini Project	
179			Seminar	SAN
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180	B.Tech-		Programming for Problem Solving	Kondar
181	CSE(AI&ML)		Programming for Problem Solving Lab	124

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183	B.Tech(DS
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Programming for Problem Solving
Programming for Problem Solving Lab
Programming for Problem Solving
Programming for Problem Solving Lab
Data Structures
Computer Organization and Architecture
Object Oriented Programming using C++
Data Structures Lab
IT Workshop Lab
C++ Programming Lab
Operating Systems
Database Management Systems
Java Programming
Operating Systems Lab
Database Management Systems Lab
Java Programming Lab
Formal Languages & Automata Theory
Software Engineering
Computer Networks
Web Technologies
Information Theory & Coding
Advanced Computer Architecture
Data Analytics
Image Processing
Principles of Programming Languages
Computer Graphics
Advanced Operating Systems
Informational Retrieval Systems
Distributed Databases
Natural Language Processing
Software Engineering Lab
Computer Networks & Web Technologies Lab
Machine Learning
Compiler Design
Design and Analysis of Algorithms
Concurrent Programming
Network Programming
Scripting Languages
Mobile Application Development
Software Testing Methodologies
Machine Learning Lab
Compiler Design Lab
Data Mining
Principles of Programming Languages
Python Programming

Android Application Development

Linux Programming R Programming Internet of Things **Distributed Systems** 

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281	]	Advertising and Sales Management						
282	Consumer Behaviour							
283	]	Customer Relationship Management						
284	]	International Marketing						
285	] [2]	Services Marketing						
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286		Security Analysis and Portfolio Management						
287		Financial Institutions, Markets & Services						
288	]	Strategic Management Accounting						
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290		Strategic Investment and Financing Decisions						
291		Risk Management and Financial Derivatives						
292		Performance Management Systems						
293		Learning and Development						
294		Management of Industrial Relations						
295		International Human Resource Management						
296		Leadership and Change Management						
297		Talent and Knowledge Management						
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301		Entrepreneurial Finance						
302		Entrepreneurial Marketing						
303		Creativity Innovation and Entrepreneurship						

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R18 B.Tech. Civil Engg. Syllabus

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in CIVIL ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	, 0
		Induction Programme				
		Total Credits	13	3	10	18

# I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	۳	P	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
		Total Credits	12	3	8	19.0

### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CE301PC	Surveying and Geomatics	3	0	0	3
2	CE302PC	Engineering Geology	2	0	0	2
3	CE303PC	Strength of Materials - I	3	1	0	4
4	MA304BS	Probability and Statistics	3	1	0	4
5	CE305PC	Fluid Mechanics	3	_ 1	0	4
6	CE306PC	Surveying Lab	0	0	3	1.5
7	CE307PC	Strength of Materials Lab	B	0	3	1.5
8	CE308PC	Engineering Geology Lab	0	6	2/	1
9	*MC309	Constitution of India	3	0	0	/
		Total Credits	17	3	8	21

# II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	-3-	0	0,	3

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in CIVIL ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1	0	. 1 4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	9	0	0
		Induction Programme				<del>-</del> -
		Total Credits	13	3	10	18

### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	т	Р	Credits
11	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	1
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	1 2	n	0	2.0
6	CH206BS	Engineering Chemistry Lab	10	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	6	3	1.5
		Total Credits	12	3	8	19.0

# II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CE301PC	Surveying and Geomatics	3	0	0	3
2	CE302PC	Engineering Geology	2	0	0	2
3	CE303PC	Strength of Materials - I	3	1	0	4
4	MA304BS	Probability and Statistics	3	1	0	7
5	CE305PC	Fluid Mechanics	3	1	0	1
6	CE306PC	Surveying Lab	0	<u> </u>	3	1.5
7	CE307PC	Strength of Materials Lab		0	3	1.5
8	CE308PC	Engineering Geology Lab	0	0	2	1.0
9	*MC309	Constitution of India	3	0	0	0
		Total Credits	17	3	8	21

# II YEAR II SEMESTER

Course Code	Course Title	L	Т	Р	Credits
EE401ES	Basic Electrical and Electronics Engineering	3	0	0	3
	Code	Code Course Title	Code Course Title L	Code Course Title L T	Code Course Title L T P

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2	CE402ES	Basic Mechanical Engineering for Civil Engineers	2	0	0	2
3	CE403PC	Building Materials, Construction and Planning	3	0	0	3
4	CE404PC	Strength of Materials - II	3	0	0	3
5	CE405PC	Hydraulics and Hydraulic Machinery	3	0	0	3
6	CE406PC	Structural Analysis - I	3	0	0	3
7	CE407PC	Computer aided Civil Engineering Drawing	0	0	3	1.5
8	CE409PC	Hydraulics and Hydraulic Machinery Lab	0	0	3	1.5
9	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	17	0	10	21

S. No:	Course Code	Course Title	L	Т	Р	Credits
4	CE501	Structural Analysis-II	3	0	0	3
2	CE502PC	Geoteshnical 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	9/	0	3	1.5
8	CE507PC	Geotechnical Engineering Lab	0	6	3	1.5
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC509	Intellectual Property Rights	3	0	0	0
		Total Credits	20	1	8	22

### III YEAR II SEMESTER

S. No	Course Code	Course Title	L	Т	Р	Credits
1	CE691PC	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 IL (Steel)	3	1	0	11.4
5		Professional Elective –II	3	0	0	3
6		Open Elective –I	3	0	0	3
7	CE605PC	Environmental Engineering Lab	19	0	2	1
8	CE606PC	Computer Aided Design Lab	10	0	2	1
9	*MC609	Environmental Science	3	0	0	
		Total Credits	21	2	4	22

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CE701PC	Estimation, Costing and Project Management	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	9
5	SM702MS	Professional Practice law & Ethics	2	0	0	2

2	CE402ES	Basic Mechanical Engineering for Civil Engineers	2	0	0	2
3	CE403PC	Building Materials, Construction and Planning	3	0	0	3
4	CE404PC	Strength of Materials - II	3	0	0	3
5	CE405PC	Hydraulics and Hydraulic Machinery	3	0	0	3
6	CE406PC	Structural Analysis - 1	3	0	0	3
7	CE407PC	Computer aided Civil Engineering Drawing	0	0	3	1.5
- 8	CE409PC	Hydraulics and Hydraulic Machinery Lab	0	0	3	1.5
9	EE409ES	Basic Electrical and Electronics Engineering Lab	19	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	-2	0
		Total Credits	17	0	10	21

S. No.	Course Code	Course Title	L	Т	Р	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
		Total Credits	20	1	8	22

# III YEAR II SEMESTER

S. No	Course Code	. Course Title	L	Т	Р	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
		Total Credits	21	2	4	22

LIV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CE701PC	Estimation, Costing and Project Management	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	SM702MS	Professional Practice law & Ethics	2	0 0	0	2

Samskruti College of Engg. & Technology Kondapur (V), Ghetheser (M), R.R. Dist

_	6	CE703PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
	7	CE704PC	Seminar	0	0	2	1
	8	CE705PC	Project Stage - I	-0-	0	6	3
			Total Credits	14	1	12	21-

### **IV YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	Т	Р	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	CE801PC	Project Stage-II	0	0-	14	7
		Total Credits	9	0	14	18

<sup>\*</sup>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

### **Professional Elective-III**

CE711PE	Remote Sensing &GIS
CE712PE	Ground Improvement Techniques
CE713PE	Advanced Structural Design

#### Professional Elective -IV

CE721PE	Irrigation and Hydraulic Structures
CE722PE	Pipeline Engineering
CE723PE	Ground Water Hydrology

#### Professional Elective -- V

· · · · · · · · · · · · · · · · · · ·	
CE811PE	Solid Waste Management
CE812PE	Environmental Impact Assessment
CE813PE	Air pollution

### Professional Elective -VI

CE821PE	Airports, Railways and Waterways
CE822PE	Urban Transportation Planning
CE823PE	Finite Element Methods for Civil Engineering

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<sup>\*</sup>MC - Satisfactory/Unsatisfactory

S. No	Course	Course Title		-		C 1!4-
B-110	Code	Course Title	L	<b>T</b>	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	7	3	2
9	MC500HS	Professional Ethics	3	0	6	0
		Total Credits	21	1	9	24

# III YEAR II SEMESTER

S. No	Course Code	Course Title	L	Т	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	8	3	2
7	CE605PC	Computer Aided Drafting - II Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	1	9	24

<sup>\*</sup>During Sumer Vacation between III and IV Years: Industry Oriented Mini Project

# IV YEAR I SEMESTER

S. No	Course Code	Course Title	L	Т	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	Λ I
		Total Credits	17	1	11	24

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# IV YEAR II SEMESTER

S. No	Course Code	Course Title	L	Т	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
	,	Total Credits	9	0	30	24

# Professional Elective - I

CE61 IPE	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.

# Professional Elective - III

CE731PE	Watershed Management.
CE732PE	Prestressed Concrete.
CE733PE	Ground Improvement Techniques.
CE734PE	Railway and Airport Engineering.

# Professional Elective – IV

CE741PE	Traffic Engineering.
CE742PE	Bridge Engineering.
CE743PE	Soil Dynamics and Machine Foundation.
CE744PE	Irrigation and Hydraulic Structures.

# Professional Elective - V

CE851PE	Waste Management.	
CE852PE	Pavement Design.	
CE853PE	Elements of Earthquake Engineering.	
CE854PE	Water Resources Systems Analysis.	

# Professional Elective - VI

CE861PE	Finite Element Methods for Civil Engineering.	
CE862PE	Geoenvironmental Engineering.	
CE863PE	Design and Drawing of Irrigation Structures.	
CE864PE	Industrial Waste Water Treatment.	

<sup>\*</sup>Open Elective subjects' syllabus is provided in a separate document.

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

# I YEAR I SEMESTER

S. No.	Course			Т		
	Code	Course Title	L	T	P	Credits
. 1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2.5
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1.0
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme	+			1
		Total Credits	12	2	10	19

# I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	<u> </u>	4
4	ME204ES	Engineering Graphics	1	0	4	2
5	AP205BS	Applied Physics Lab	- 0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	1.5
		Total Credits	13	3	10	18

### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE301ES	Engineering Mechanics	3	1	0	
2	EE302PC	Electrical Circuit Analysis	3	1	0	4
3	EE303PC	Analog Electronics	3	<u>'</u>	0	4
4	EE304PC	Electrical Machines - I	3	1		3
5	EE305PC	Electromagnetic Fields	3	1	0	4
6	EE306PC	Electrical Machines Lab - I	0	0	2	3
7	EE307PC	Analog Electronics Lab	10	0		1
8	EE308PC	Electrical Circuits Lab	0	0	2	1
9	*MC309	Gender Sensitization Lab	ļ	0_	2	1
		Total Credits	0 15	3	2 8	21

S. No.	Course Code	Course Title	L	Т	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex variables	3	1	R	4

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in ELECTRICAL AND ELECTRONICS ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme				
		Total Credits	12	2	10	19

### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
<u>1</u>	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0.	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3.
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

### II YEAR I SEMESTER

S. No.	Course	Course Title		_		
<b>O.</b> 140.	Code	Course Title	L	1	P	Credits
1	EE301ES	Engineering Mechanics	3	1	0	4
2	EE302PC	Electrical Circuit Analysis	3	1	0	4
3_	EE303PC	Analog Electronics	3	0	0	3
4	EE304PC	Electrical Machines - I	3	1	0	4
5	EE305PC	Electromagnetic Fields	3	0	0	3
6	EE306PC	Electrical Machines Lab - I	0	0	2	1
7_	EE307PC	Analog Electronics Lab	0	0	2	1
8	EE308PC	Electrical Circuits Lab	0	0	2	1
9	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

# II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	т	Р	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex variables	3	1	0	() <del>4</del>

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		Total Credits	18	3	6	21
_ <del>9</del>	*MC409	Constitution of India	,3	0	0	. 0
8	EE408PC	Control Systems Lab	0	0	2	. 1
7	EE407PC	Electrical Machines Lab - II	0	0	2	1
6	EE406PC	Digital Electronics Lab	0	0	2	1
5	EE405PC	Power System - I	3	0	.0	3
4	EE404PC	Control Systems	3	1	0	4
3	EE403PC	Digital Electronics	3	0	0	3
_2	EE402PC	Electrical Machines – II	3	1	0	4

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE501PE	Power Electronics	3	.1	0	4
2	EE502RE	Power System-II	3	1	0	4
3	EE503PE	Measurements and Instrumentation	3	1	0	4
4		Professional Elective-I	3	0	0	3
5	SM504MS	Business Economics and Financial Analysis	3	0	0	3
6	EE505PC	Power System Simulation Lab	0	0	2	1
7	EE506PC	Power Electronics Lab	0	0	2	1
8	EE507PC	Measurements and Instrumentation Lab	0	0	2	1
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

# III YEAR II SEMESTER

S. No	Course Code	Course Title	L	T	Р	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3	EE601PC	Signals and Systems	2	1	0	3
4	EE602PC	Microprocessors & Microcontrollers	3	0	0	3
5	EE603PC	Power System Protection	3	1	0	4
6	EE604PC	Power System Operation and Control	3	0	0	3
7	EE605PC	Power System Lab	0	0	2	1
8	EE606PC	Microprocessors & Microcontrollers Lab	0	0	2	1
9	EE607PC	Signals and Systems Lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	20	2	6	22

\*MC609 - Environmental Science - Should be Registered by Lateral Entry Students Only.

S. No.	Course Code	Course Title	L	т	P	Credits
1		Open Elective-II	3	0	0	3
2		Professional Elective-III	3	0	0	3
3		Professional Elective-IV	3	0	0	3
4	SM701MS	Fundamentals of Management for Engineers	3	0	0	3
5	EE701PC	Electrical & Electronics Design Lab	1	0	40	. 3

2	EE402PC	Electrical Machines - II		3	1	0	4
3	EE403PC	Digital Electronics		3	0	0	3
4	EE404PC	Control Systems		3	1	0	4
5	EE405PC	Power System - I		3	0	0	3
6	EE406PC	Digital Electronics Lab		0	0	2	1
7	EE407PC	Electrical Machines Lab - II		0	0	2	1
8	EE408PC	Control Systems Lab		0	0	2	1
9	*MC409	Constitution of India	-	3	0	0	0
		Total Credits		18	3	6	21

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE501PE	Power Electronics	3	1	0	4
2	EE502PE	Power System-II	3	1	0	4
3	EE503PE	Measurements and Instrumentation	3	1	0	4
4		Professional Elective-I	3	0	0	3
5	SM504MS	Business Economics and Financial Analysis	3	0	0	3
6	EE505PC	Power System Simulation Lab	0	0	2	1
7	EE506PC	Power Electronics Lab	0	0	2	1
8	EE507PC	Measurements and Instrumentation Lab	0	0	2	1
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

# III YEAR II SEMESTER

S. No	Course Code	Course Title	L	Т	Р	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-III	3	0	0	3
3	EE601PC	Signals and Systems	2	1	0	3
4	EE602PC	Microprocessors & Microcontrollers	3	0	0	3
5	EE603PC	Power System Protection	3	1	0	4
6	EE604PC	Power System Operation and Control	3	0	0	3
7	EE605PC	Power System Lab	0	0	2	1
8	EE606PC	Microprocessors & Microcontrollers Lab	0	0	2	1
9	EE607PC	Signals and Systems Lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	20	2	6	22

<sup>\*</sup>MC609 - Environmental Science - Should be Registered by Lateral Entry Students Only.

S. No.	Course Code	Course Title	L	Т	Р	Credits
1		Open Elective-II	3	0	0	3
2		Professional Elective-III	3	0	0	3
3		Professional Elective-IV	3	0	0	3
4	SM701MS	Fundamentals of Management for Engineers	3	0	0	3
5	EE701PC	Electrical & Electronics Design Lab	1	0	4	7 3

C	EE702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	4	2*
		· · · · · · · · · · · · · · · · · · ·	0	0	2	1
7	EE703PC	Seminar	U	0	2	,
	EE704PC	Project Stage - I	0	0	6	3
	,	Total Credits	13	0	16	21

#### IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	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	EE801PC	Project Stage - II	0	0	14	7
		Total Credits	9	0	14	16

# \*MC - Satisfactory/Unsatisfactory

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

I Totessional	Tolessional Elective - I					
EE511PE	Computer Architecture					
EE512PE	High Voltage Engineering					
EE513PE	Electrical Machine Design					

# Professional Elective - II

Fluiessional L	Tolessional Elective - II				
EE611PE	Optimization Techniques	4			
EE612PE	Power Semiconductor Drives	1			
'EE613PE	Wind and Solar Energy systems	_			

### Professional Elective - III

Professional Elective - III				
EE711PE	Digital Control systems			
EE712PE	Digital Signal Processing			
EE713PE	Electrical and Hybrid Vehicles			

# Professional Elective - IV

Professional E	lective - IV	
EE721PE	HVDC Transmission_	
EE722PE	Power System Reliability	
EE723PE	Industrial Electrical Systems	

# Professional Elective - V

Tolessional Elective T					
EE811PE	Power Quality & FACTS				
EE812PE	Control Systems Design				
EE813PE	Al Techniques in Electrical Engineering				

Professional Elective - VI

Professional	Professional Elective - VI			
EE821PE	Smart Grid Technologies			
EE822PE	Electrical Distribution Systems			
EE823PE	Advanced Control of Electric Drives			

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S. No.	Course Code	Course Title	L	Т	P	Credits
1	EE501PC	Electrical Measurements & Instrumentation	4	1	0	4
2	EE502PC	Power Systems - II	4	1	0	4
3	EI503PC	Microprocessors and Microcontrollers	4	1	0	4
4	SM504MS	Fundamentals of Management	3	0	0	3
5		Open Elective - I	3	0	0	3
6	EE505PC	Electrical Measurements & Instrumentation  Lab	0	0	3	2
7	EE506PC	Basic Electrical simulation Lab	0	0	3	2
8	EI507PC	Microprocessors and Microcontrollers Lab	0	0	3	2
9	*MC500HS	Professional Ethics	3	0	0	0
		Total Credits	21	3	9	24

# III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	EE60.1PC	Power Systems Analysis	4	1	0	4
2	EE602PC	Power Electronics	4	1	0	4
3	EE603PC	Switch Gear and Protection	4	1	0	4
4		Open Elective - II	3	0	0	3
5		Professional Elective - I	3	0	0	3
6	EE604PC	Power Systems Lab	0	0	3	2
7	EE605PC	Power Electronics Lab	0	0	3	2
8	EN606HS	Advanced English Communication Skills Lab	0	0	3	2
		Total Credits	18	3	9	24

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

S. No.	Course Code	Course Title	L	Т	P	Credits
1	EE701PC	Power Semiconductor Drives	4	1	0	4
2	EE702PC	Power System Operation and control	4	I	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	EE703PC	Electrical Systems Simulation Lab	0	0	γ3	2



7	EE704PC	Electrical Workshop	0	0	3	2
8	EE705PC	Industry Oriented Mini Project	0	0	3	2
9	ÈE706PC	Seminar	0	0	2	1
		Total Credits	17	2	11	24

# IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	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	EE801PC	Major Project	0	0	30	15
		Total Credits	9	0	30	24

# Professional Elective - I (PE - I):

EM611PE	Computer Organization
EE612PE	Linear Systems Analysis
EE613PE	Linear and Digital IC Applications
EE614PE	Electrical and Electronics Instrumentation

# Professional Elective - II (PE - II):

EE721PE	Digital Signal Processing
EE722PE	HVDC Transmission
ET721PE	Switch Mode Power Supplies
EE724PE	Reliability Engineering

# Professional Elective - III (PE - III):

EE731PE	Digital Control Systems
EE732PE	Power Quality
EE733PE	Modern Power Electronics
EE734PE	Optimization Techniques

# Professional Elective - IV (PE-IV):

EE741PE	Programmable Logic Controllers	<u>.                                    </u>
EE742PE	EHV AC Transmission Systems	<u> </u>
EE743PE	Flexible A.C. Transmission Systems	
EE744PE	Special Machines	

# Professional Elective - V (PE-V):

EE851PE	Artificial Neural Networks and Fuzzy Systems	
EE852PE	Electrical Distribution Systems	No.

2	EE402PC	Electrical Machines – II	3	1	0	4
3	EE403PC	Digital Electronics	3	0	0	3
4	EE404PC	Control Systems	3	1	0	4
5	EE405PC	Power System - I	3	0	0	3
6	EE406PC	Digital Electronics Lab	0	0	2	1
7	EE407PC	Electrical Machines Lab - II	0	0	2	1
8	EE408PC	Control Systems Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE501PE	Power Electronics	3	1	0	4
2	EE502PE	Power System-II	3	1	0	4
3	EE503PE	Measurements and Instrumentation	3	1	0	4
4		Professional Elective-I	3	0	0	3
5	SM504MS	Business Economics and Financial Analysis	3	0	0	3
6	EE505PC	Power System Simulation Lab	0	0	2	1
7	EE506PC	Power Electronics Lab	0	0	2	1
8	EE507PC	Measurements and Instrumentation Lab	0	0	2	1
9	EN508HS	Advanced Communication Skills Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	18	3	8	22

### **III YEAR II SEMESTER**

S. No	Course Code	Course Title	L	Т	Р	Credits
1		Open Elective-I	3	0	0	3
2		Professional Elective-II	3	0	0	3
3	EE601PC	Signals and Systems	2	1	0	3
4	EE602PC	Microprocessors & Microcontrollers	3	0	0	3
5	EE603PC	Power System Protection	3	1	0	4
6	EE604PC	Power System Operation and Control	3	0	0	3
7	EE605PC	Power System Lab	0	0	2	1
8	EE606PC	Microprocessors & Microcontrollers Lab	0	0	2	1
9	EE607PC	Signals and Systems Lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
		Total Credits	20	2	6	22

\*MC609 - Environmental Science - Should be Registered by Lateral Entry Students Only.

# IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1		Open Elective-II	3	0	0	3
2		Professional Elective-III	3	0	0	3
3		Professional Elective-IV	3	0	0	3
4	SM701MS	Fundamentals of Management for Engineers	3	0	0	3
5	EE701PC	Electrical & Electronics Design Lab	1	Ø\	4	3

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Ì	7	EE704PC	Electrical Workshop				
	8		-	U	0	3	2
1	0		Industry Oriented Mini Project	0	0	3	2
	9	EE706PC	Seminar	0	0	2	1
			Total Credits	18	2		
				17			24

# IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1		Open Elective - III	3	0	0	2
2		Professional Elective-V	3	0	0	3
3		Professional Elective-VI	3	0	0	3
4	EE801PC	Major Project	0	0	30	15
		<b>Total Credits</b>	9	0	30	24

# Professional Elective - I (PE - I):

EM611PE	Computer Organization
EE612PE	Linear Systems Analysis
EE613PE	Linear and Digital IC Applications
	Electrical and Electronics Instrumentation

# Professional Elective - II (PE - II):

EE721PE	Digital Signal Processing
	HVDC Transmission
ET721PE	Switch Mode Power Supplies
	Reliability Engineering

# Professional Elective - III (PE - III):

EE731PE	Digital Control Systems
EE732PE	Power Quality
EE733PE	Modern Power Electronics
EE734PE	Optimization Techniques

# Professional Elective - IV (PE-IV):

EE741PE	Programmable Logic Controllers
EE742PE	EHV AC Transmission Systems
EE743PE	Flexible A.C. Transmission Systems
EE744PE	Special Machines

# Professional Elective - V (PE-V):

EE852PE Electrical Distribution Systems	EE851PE	Artificial Neural Networks and Fuzzy Systems	7
	EE852PE	Electrical Distribution Systems	

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EE853PE	Wind, Solar and Hybrid Energy Systems
EE854PE	High Voltage Engineering

# Professional Elective - VI (PE-VI):

EE861PE	VLSI Design	
EE862PE	Smart Electric Grid	.::
EE863PE	Utilization of Electric Power	
EE864PE	Electric and Hybrid Vehicles	

<sup>\*</sup>Open Elective subjects' syllabus is provided in a separate document.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

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<sup>\*</sup>Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in MECHANICAL ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

### Applicable From 2018-19 Admitted Batch

# IYEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	. 3	1	- 0	4
. 2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
,		Induction Programme				
		Total Credits	13	3	10	18

# 1 YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	Р	Credits
1.	MA201BS	Mathematics - II	3	,1	0	4
- 2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
		Total Credits	12	3	8	19.0

### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	MA301BS	Probability and Statistics & Complex Variables	3	1	0	4
2	ME302PC	Mechanics of Solids	3	1	0_	4
3	ME303PC	Material Science and Metallurgy	3	0	0	3
4	ME304PC	Production Technology	3	0	0	3
5	ME305PC	Thermodynamics	3	1	0	4
6	ME306PC	Production Technology Lab	0	0	2	1
7	ME307PC	Machine Drawing Practice	0	0	2	1
8	ME308PC	Material Science and Mechanics of Solids Lab	0_	0	2	1
9	*MC309	Constitution of India	3	0_	0	0
		Total Credits	18	3	6	21

### II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	Р	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	3	0	TO.	. 3

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# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in MECHANICAL ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

### Applicable From 2018-19 Admitted Batch

#### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	PH102BS	Engineering Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	<i>p</i> 1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	PH105BS	Engineering Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
= 7	*MC109ES	Environmental Science	3	0	0	0
		Induction Programme				
		Total Credits	13	3	10	18

### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	т	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	ME203ES	Engineering Mechanics	3	1	0	4
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
111	10	Total Credits	12	3	8	19.0

# II YEAR I SEMESTER

S. No.	Course Code	Course Title	٦	Т	Р	Credits
1	MA301BS	Probability and Statistics & Complex Variables	3	1	0	4
2	ME302PC	Mechanics of Solids	3	11	0	. 4
3	ME303PC	Material Science and Metallurgy	3	0	0	3
4	ME304PC	Production Technology	3	.0	0	3
5	ME305PC	Thermodynamics /	3	1	0	4
6	ME306PG	Production Technology Laby	0	0	2	1
7	ME307PC	Machine Drawing Practice	0	.0	2	1
8	ME308PC	Material Science and Mechanics of Solids Lab	0_	0	2	1
9	*MC309	Constitution of India	3	0_	0_	0
10.0	8	Total Credits	18	3	6	21

# II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EE401ES	Basic Electrical and Electronics Engineering	3	0	00	3

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2	ME402PC	Kinematics of Machinery	3	1	0	4
. 3	ME403PC	Thermal Engineering - I	3	1	0	4
4	ME404PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
5	ME405PC	Instrumentation and Control Systems	3	0	0	3
6	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

S. No.	Course Code	Course Title	7	T	Р	Credits
1	ME501PC	Dynamics of Machinery	3	1_	0	4
2	ME502PC	Design of Machine Members-I	3	0	0	3
3	ME503PC	Metrology & Machine Tools	3_	0	0	3
4	SM504MS	Business Economics & Financial Analysis	3_	0	0	3
5	ME505PC	Thermal Engineering-II	3	0	0	3
6	ME506PC	Operations Research	3	0	0	3
7	ME507PC	Thermal Engineering Lab	0_	0	2_	1
8	ME508PC	Metrology & Machine Tools Lab	0	0	2	1
9	ME509PC	Kinematics & Dynamics Lab	0	0	2	1
<b>10</b>	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	1	6	22

# III YEAR II SEMESTER

S. No	Course Code	Course Title	L	Т	Р	Credits
1	ME601PC	Design of Machine Members-II	3	0	0	3
2	ME602PC	Heat Transfer	3	1	0	4
3	ME603PC	CAD & CAM	3	0	0	3
4		Professional Elective - I	3	0	0	3
5		Open Elective - I	3	0	0	3
6	ME604PC	Finite Element Methods	3	0	0	3
7	ME605PC	Heat Transfer Lab	0	0_	2	1
8	ME606PC	CAD & CAM Lab	0	0	2	1
9	EN608HS	Advanced Communication Skills lab	0	0	2	1
10	*MC609	Environmental Science	3	0	0	0
8		Total Credits	21	1	6	22

Course Code	Course Title	L	Т	P	Credits
ME701PC	Refrigeration & Air Conditioning	3	0	0	3
	Professional Elective - II	3	0	0	3
	Professional Elective – III	3	0	0	3
	Professional Elective - IV	3	0	0	. 3
	Open Elective - II	3	0	0	3
ME702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	P	2*
ME703PC	Seminar	0	0	(29)	1
	Code ME701PC ME702PC	Code  ME701PC Refrigeration & Air Conditioning  Professional Elective – II  Professional Elective – III  Professional Elective – IV  Open Elective - II  ME702PC Industrial Oriented Mini Project/ Summer Internship	Code         Course little           ME701PC         Refrigeration & Air Conditioning         3           Professional Elective – II         3           Professional Elective – IVI         3           Open Elective – II         3           ME702PC         Industrial Oriented Mini Project/ Summer Internship         0	Code         Course little         L         I           ME701PC         Refrigeration & Air Conditioning         3         0           Professional Elective – II         3         0           Professional Elective – III         3         0           Professional Elective – IV         3         0           Open Elective – II         3         0           ME702PC         Industrial Oriented Mini Project/ Summer Internship         0         0	Code         Course little         L         I           ME701PC         Refrigeration & Air Conditioning         3         0         0           Professional Elective – III         3         0         0           Professional Elective – IV         3         0         0           Open Elective – II         3         0         0           ME702PC         Industrial Oriented Mini Project/ Summer Internship         0         0         0

2	ME402PC	Kinematics of Machinery	3	1	0	4
3	ME403PC	Thermal Engineering - I	3	1	0	4
4	ME404PC	Fluid Mechanics and Hydraulic Machines	3	1	0	4
5	ME405PC	Instrumentation and Control Systems	3	0	0	3
6	EE409ES	Basic Electrical and Electronics Engineering Lab	0	0	2	1
7	ME407PC	Fluid Mechanics and Hydraulic Machines Lab	0	0	2	1
8	ME408PC	Instrumentation and Control Systems Lab	0	0	2	1
10	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	3	8	21

S. No.	Course Code	Course Title	L	Т	Р	Credits
1.	ME501PC	/Dynamics of Machinery	3.	1	0	4
2	ME502PC	Design of Machine Members-I	3	0	0	3
3	ME503PQ	Metrology & Machine Tools	3	0	0	3
4 .	SM504MS	Business Economics & Financial Analysis	3	0	0	3
5	ME505PC	Thermal Engineering-II	3	0	0	3
6	ME506PC	Operations Research	3	0	0	3
7	ME507PC	Thermal Engineering Lab	0	0	.2	1
. 8	ME508PC	Metrology & Machine Tools Lab	0	0	2	1
9	ME509PC	Kinematics & Dynamics Lab	0	0	2	1
10	*MC510	Intellectual Property Rights	3	0	0	0
		Total Credits	21	1	6	22

# III YEAR II SEMESTER

S. No	Course Code	Course Title	L	·Τ	Р	Credits
1 '	ME601PC	Design of Machine Members-JI	3	0	0	3
2	ME602PC	/Heat Transfer	3	1	0	4
3	ME603P0	CAD & CAM	3,	0	0	3
4		Professional Elective - 1	3	0	0	3
, 5		Open Elective - I	3	0	0	3
6	ME604PC	Finite Element Methods	3	0	0	3
7	ME605P0	Heat Transfer Lab	0	0	2	1
-8	ME606PC	CAD & CAM Lab	0	0	2	1
9	EN608HS	Advanced Communication Skills lab	. 0	0	2	1
. 10	*MC609	Environmental Science	3	0	0	0
a		Total Credits	21	1	6	22

S. No.	Course Code	Course Title	L	T	P	Credits
1	ME701PC	Refrigeration & Air Conditioning	3	0_	0	3
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	,	Open Elective - II	3	0	0	3
6	ME702PC	Industrial Oriented Mini Project/ Summer Internship	0	0	6	2*
7	ME703PC	Seminar	0	0	7	1.

	8	ME704PC	Project Stage - I	0	0_	6	3
Г			Total Credits	15	0	12	21

### **IV YEAR II SEMESTER**

S. No.	Course Code	Course Title	L	T	Р	Credits
1		Professional Elective - V	3	0	0	3
2	1200200	Professional Elective - VI	3	0	0	3
3		Open Elective - III	3	0	0	3
4	ME801PC	Project Stage - II	0	0_	14	7
		Total Credits	9	0	14	16

<sup>\*</sup>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

1 101000101101 -1001	
ME611PE	Unconventional Machining Processes
ME612PE	Machine Tool Design
ME613PE	Production Planning & Control

#### Professional Elective - II

ME711PE	Additive Manufacturing
ME712PE	Automation in Manufacturing
ME713PE	MEMS

### Professional Elective - III

I I O I COOLING FIGURIA	***	
ME721PE	Power Plant Engineering	
ME722PE	Automobile Engineering	
ME723PE	Renewable Energy Sources	

### Professional Elective - IV

1 10162310Hat Fice	2014 0 14
ME731PE	Computational Fluid Dynamics
ME732PE	Turbo Machinery
ME733PE	Fluid Power Systems

#### Professional Elective - V

I totessional Piconic	
ME811PE	Industrial Robotics
ME812PE	Mechanical Vibrations
MM813PE	Composite Materials

#### Professional Elective - VI

1 101000101101 FIGURE	
ME821PE	Industrial Management
ME822PE	Production and Operations Management
ME823PE	Tribology

Samskrati College of Engg. & Technology Kondapur (V), Ghatkeser (M), R.R. O.

<sup>\*</sup>MC - Satisfactory/Unsatisfactory

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

# Applicable From 2016-17 Admitted Batch

# IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	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	ME704RC	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
		Total Credits	17	0	11	24

# IV YEAR IL 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
		Total Credits	9	0	30	24

# 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	18
ME724PE	Operations Research	
		Principal

Samskruti College of Engg. & Technology Kondapur (V), Ghetkeser (M), R.R. Bis

### Professional Elective - III

ME731PE	Engineering Tribology
ME732PE	Computational Fluid Dynamics
ME733PE	Roboties
ME734PE	CNC Technology

### Professional Elective - IV

ME741 PE	Mechanical Vibrations
ME742PE	Turbo Machines
ME743PE	MEMS
ME744PE	Additive Manufacturing Technology

### Professional Elective - V

ME851PE	Automation in Manufacturing
ME852PE	Fluid Power System
ME853PE	Renewable Energy Sources
ME854PE	Production Planning and Control

# Professional Elective - VI

ME861PE	Automobile Engineering
ME862PE	Advanced Mechanics of Solids
ME863PE	Unconventional Machining Processes
ME864PE	Advanced Materials Technology

<sup>\*</sup>Open Elective subjects' syllabus is provided in a separate document.

\*Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

Samskruti College of Engg. & Technology Kondapur (V), Chatteser (M), R.R. Dist

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

### I YEAR I SEMESTER

1 1 1 1	TO CHILD I LIV					
S. No.	Course Code	Course Title	L	Т	Ъ	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	AP102BS	Applied Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1	0	4	3
5	AP105BS	Applied Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
	49	Induction Programme				
		Total Credits	13	3	10	18

### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L.	T	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	EE203ES	Basic Electrical Engineering	3	0	0	3
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3	1.5
. 7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
8	EE208ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19

### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EC301PC	Electronic Devices and Circuits	3	1	0	4
2	EC302PC	Network Analysis and Transmission Lines	3	0	0	3
3	EC303PC	Digital System Design	3	1	0	4
4	EC304PC	Signals and Systems	3	1	0	4
5	EC305ES	Probability Theory and Stochastic Processes	3	0	0	3
6	EC306PC	Electronic Devices and Circuits Lab	0	0	2	1
7	EC307PC	Digital System Design Lab	0	0	2	1
8	EC308ES	Basic Simulation Lab	0	0	2	1
9	*MC309	Constitution of India	3	0	0	0
•		Total Credits	18	3	6	21

S. No.	Course Code	Course Title	L	T	Р	Credits
1	MA401BS	Laplace Transforms, Numerical Methods & Complex Variables	3	1	0	4
2	EC402PC	Electromagnetic Fields and Waves	3	0	00	3

### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in ELECTRONICS AND COMMUNICATION ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

# Applicable From 2018-19 Admitted Batch

#### I YEAR I SEMESTER

1 1 5/1	VI OFWED LEK					
S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	AP102BS	Applied Physics	3	1	0	4
3	CS103ES	Programming for Problem Solving	3	1	0	4
4	ME104ES	Engineering Graphics	1_	0	4	3
5	AP105BS	Applied Physics Lab	0	0	3	1.5
6	CS106ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC109ES	Environmental Science	3	0	0	0
		Induction Programme				
		Total Credits	13	3	10	18

### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	CH202BS	Chemistry	3	1	0	4
3	EE203ES	Basic Electrical Engineering	3	0	0	3
4	ME205ES	Engineering Workshop	1	0	3	2.5
5	EN205HS	English	2	0	0	2
6	CH206BS	Engineering Chemistry Lab	0	0	3_	1.5
7	EN207HS	English Language and Communication Skills Lab	0	0	2	1
8	EE208ES	Basic Electrical Engineering Lab	0	0	2	1
		Total Credits	12	2	10	19

# II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EC301PC	Electronic Devices and Circuits	3	1	0	4
2	EC302PC	Network Analysis and Transmission Lines	3	0	0	3
3	EC303PC	Digital System Design	3	1	0	4
4	EC304PC	Signals and Systems	3	1	0	4
5	EC305ES	Probability Theory and Stochastic Processes	3	0	0	3
6	EC306PC	Electronic Devices and Circuits Lab	0	0	2	1
7	EC307PC	Digital System Design Lab	0	0	2	1
8	EC308ES	Basic Simulation Lab	0	0	2	1
9	· *MC309	Constitution of India	3	0	0	0
		Total Credits	18	3	6	21

# II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	MA401BS	Laplace Transforms, Numerical Methods &	3	1	0	4
		Complex Variables				
2	EC402PC	Electromagnetic Fields and Waves	3	q\	.0	3

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. 3	EC403PC	Analog and Digital Communications	3	1	0	4
4	EC404PC	Linear IC Applications	3	0	0	3
5	EC405PC	Electronic Circuit Analysis	3	0	0	3
6	EC406PC	Analog and Digital Communications Lab	0	0	3	1.5
7	EC407PC	IC Applications Lab	- 0_	0	3	1.5
8	EC408PC	Electronic Circuit Analysis Lab	0	0	2	1
9	*MC409	Gender Sensitization Lab	0	0	2	0
		Total Credits	15	2	10	21

S. No.	Course Code	Course Title	L	Т	Р	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
		Total Credits	18	3	8	22

# III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Τ	Р	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 - 1	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
		Total Credits	18_	3	8	22

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EC701PC	Microwave and Optical Communications	3	0	0	3
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	SM702MS	Professional Practice, Law & Ethics	2	0	0	2
6	EC703PC	Microwave and Optical Communications Lab	0	0	2	1
7	EC704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	.0	2*
8	EC705PC	Seminar	0	0	2	1
9	EC706PC	Project Stage - I	0	0	6	3
		Total Credits	14	0	10	21

3	EC403PC	Analog and Digital Communications	3	1	0	4
4	EC404PC	Linear IC Applications	3	0	0	3
5	EC405PC	Electronic Circuit Analysis	3	0	0	3
6	EC406PC	Analog and Digital Communications Lab	0	0	3	1.5
7	EC407PC	IC Applications Lab	0	0	3	1.5
8	EC408PC	Electronic Circuit Analysis Lab	0	0	2	1
9	*MC409	Gender Sensitization Lab	0	0	.2	0
	1	Total Credits	15	2	10	21

S. No.	Course Code	Course Title	L	Т	Р	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
		Total Credits	18	3	8	22

# III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	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
	· 🔳	Total Credits	18	3	8	22

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	EC701PC	Microwave and Optical Communications	3	0	.0	3
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	SM702MS	Professional Practice, Law & Ethics	2	0	0	2
6	EC703PC	Microwave and Optical Communications Lab	0	0	2	1
7	EC704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
8	EC705PC	Seminar	0	0	2	1
9	EC706PC	Project Stage - I	0	0	6	3
	•	Total Credits	14	0	10	21



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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

# Applicable From 2016-17 Admitted Batch

# IV YEAR I SEMESTER

S.No.	Course Code	Course Title	L	Т	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
_		Total Credits	17	0	11	24

# IV YEAR II SEMESTER

S.No.	Course Code	Course Title	L	Т	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
		Total Credits	9	0	30	24

# Professional Elective - I

EC611PE	Computer organization and operating system
EC612PE	Digital Image Processing
EC613PE	Spread Spectrum Communications
	Digital system Design

# Professional Elective - II

EC721PE	Computer Networks	
EC722PE	Telecommunication Switching Systems and Networks	
EC723PE	RF Circuit Design	Λ
EC724PE	Artificial Neural Networks	( p,

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Professional Elective - III

EC731PE	Cellular and Mobile Communications
EC732PE	Electronics Measurements and Instrumentation
EC733PE	EMI and EMC
EC734PE	Object Oriented Programming through JAVA

#### Professional Elective - IV

EC741PE	Optimization Techniques
EC742PE	Embedded System Design
EC743PE	Satellite Communications
EC744PE	Network Security and Cryptography

#### Professional Elective - V

EC851PE	Optical Communications
EC852PE	Wireless Communications and Networks
EC853PE	Design of Fault Tolerant Systems
EC854PE	Bio Medical Instrumentation

#### Professional Elective -VI

EC861PE	Radar Systems	
EC862PE	Coding Theory and Techniques	_
EC863PE	Database Management Systems	
EC864PE	Global Positioning System	

<sup>\*</sup>Open Elective subjects' syllabus is provided in a separate document.

\*Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Dept.

Samskruti College of Engg. & Technology Kondapur (V), Ghatkesar (M), R.R. R18 B.Tech. CSE (Al & ML) Syllabus

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING) COURSE STRUCTURE & SYLLABUS (R18)

#### Applicable From 2020-21 Admitted Batch

#### I YEAR I SEMESTER

S. No.	Course Code	Course Title	ı L	T	Р	Credits
1	MA101BS	Mathematics - I	3	1	• 0	4
2	CH102BS	Chemistry	3	1	0	4
3 -	EE103ES	Basic Electrical Engineering	3	0	0	3 _
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme				
-		Total Credits	12	2	10	19

#### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	-1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	- 3	0	0	0
		Total Credits	13	3	10	18

<sup>\*</sup>MC - Mandatory Course

Academic Regulations for this Program is same as R18 B.Tech. Academic Regulations.

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE) COURSE STRUCTURE & SYLLABUS (R18)

#### Applicable From 2020-21 Admitted Batch

## I YEAR I SEMESTER

6. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1_	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0_	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme			/	
		Total Credits	12	2	10	19~

#### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	MA201BS	Mathematics - II	3	1_	0	4
2	AP202BS	Applied Physics	3	1	0_	4
3	CS203ES	Programming for Problem Solving	3	1_	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0_	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

<sup>\*</sup>MC - Mandatory Course

Academic Regulations for this Program is same as R18 B.Tech. Academic Regulations.

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

#### Applicable From 2018-19 Admitted Batch

#### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA101BS	Mathematics - I	3	1	0	4
2	CH102BS	Chemistry	3	1	0	4
3	EE103ES	Basic Electrical Engineering	3	0	0	3
4	ME105ES	Engineering Workshop	1	0	3	2.5
5	EN105HS	English	2	0	0	2
6	CH106BS	Engineering Chemistry Lab	0	0	3	1.5
7	EN107HS	English Language and Communication Skills Lab	0	0	2	1
8	EE108ES	Basic Electrical Engineering Lab	0	0	2	1
		Induction Programme				
		Total Credits	12	2	10	19

#### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	MA201BS	Mathematics - II	3	1	0	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	1	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
25		Total Credits	13	3	10	18

#### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CS301ES	Analog and Digital Electronics	3	0	0	3
2	CS302PC	Data Structures	3	1	0	4
3	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS305PC	Object Oriented Programming using C>+	2	0	0	2
6	CS306ES	Analog and Digital Electronics Lab	0	0	2	1
7	CS307PC	Data Structures Lab	0	0	_3	1.5
8	CS308PC	IT Workshop Lab	0	0	3	1.5
9	CS309PC	C++ Programming Lab	0	0	2	1
10	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	14	2	12	21

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech. in COMPUTER SCIENCE AND ENGINEERING COURSE STRUCTURE & SYLLABUS (R18)

### Applicable From 2018-19 Admitted Batch

#### I YEAR I SEMESTER

Credits
010011-0
4
4
3
2.5
2
1.5
1
1
19

#### I YEAR II SEMESTER

S. No.	Course Gode	Course Title	L	Т	P	Credits
1	MA201BS	Mathematics - II	3	1	0_	4
2	AP202BS	Applied Physics	3	1	0	4
3	CS203ES	Programming for Problem Solving	3	1	0	4
4	ME204ES	Engineering Graphics	7	0	4	3
5	AP205BS	Applied Physics Lab	0	0	3_	1.5
6	CS206ES	Programming for Problem Solving Lab	0	0	3	1.5
7	*MC209ES	Environmental Science	3	0	0	0
		Total Credits	13	3	10	18

#### II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	Р	Credits
1	CS301ES	Analog and Digital Electronics	3	0	. 0	3
2	CS302PC	Data Structures	3 .	1	0	4
3	MA303BS	Computer Oriented Statistical Methods	3	1	0	4
4	CS304PC	Computer Organization and Architecture	3	0	0	3
5	CS305PC	Object Oriented Programming using C++	2	0	0	2
6.	CS306ES	Analog and Digital Electronics Lab	0	0	2_	1
. 7	CS307PC	Data Structures Lab	0	0	3	1.5
8	CS308PC	IT Workshop Lab	0	0	3.	1,5
9	CS309PC	C++ Programming Lab	0 ,	0	2	1
10	*MC309	Gender Sensitization Lab	0	0	2	0
		Total Credits	14	2	12	21

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#### II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	P	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	4
5	CS405PC	Java Programming	3_	1	0	4
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	0	2	1
9	*MC409	Constitution of India	3	0	0	0
		Total Credits	18	2	8	21

#### III YEAR I SEMESTER

S. No.	Course	Course Title	L	Т	P	Credits
1	CS561PC	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	9	2	1
10	*MC510	Intellectual Property Rights	3	Ö	0	0
		Total Credits	21	0	8	22_

#### III YEAR II SEMESTER

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

#### IV YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CS701PC	Cryptography & Network Security	3	0	0	3
2	CS702PC	Data Mining	-2	0	0	2

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## II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CS401PC	Discrete Mathematics	3	0	0	3
2	SM402MS	Business Economics & Financial Analysis	3	0	0	3
3	CS403PC	Operating Systems	3	0	0	3
4	CS404PC	Database Management Systems	3	1	0	
5	CS405PC	Java Programming	3	1	0	<del>4</del>
6	CS406PC	Operating Systems Lab	0	0	3	1.5
7	CS407PC	Database Management Systems Lab	0	0	3	1.5
8	CS408PC	Java Programming Lab	0	5	2	1.0
9	*MC409	Constitution of India	3	-	6	0
		Total Credits	18	2	8	21

## III YEAR I SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	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
		Total Credits	21	0	8	22

### III YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	CS601PC	Machine Learning	3	1	0	4
2	CS602PC	Compiler Design	3	1	10	1
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	1.0
9	*MC609	Environmental Science	3	0	0	0
		Total Credits	18	3	8	22

#### IV YEAR I SEMESTER

1	S. No.	Course Code	Course Title	L	Т	Р	Credits
L	1	CS701PC	Cryptography & Network Security	3		_	2
L	2	CS702PC	Data Mining	2	0		2

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3		Professional Elective -IV	3	0	0	3
4		Professional Elective -V	3	0	0	3
5	$\sim$	Open Elective - II	3	0	0	3
6	CS703PC	Cryptography & Network Security Lab	0	0	2	1
7	CS704PC	Industrial Oriented Mini Project/ Summer Internship	0	0	0	2*
8	CS705PC	Seminar	0	0	2	1
9	CS706PC	Project Stage - I	0	0	6	3
		Total Credits	14	0	10	21

#### IV YEAR II SEMESTER

S. No.	Course Code	Course Title	L	Т	Р	Credits
1	SM801MS	Organizational Behaviour	3	0	0	3
2		Professional Elective - VI	3	0	0	3
3		Open Elective - III	3	0	0	3
4	CS802PC	Project Stage - II	0	0	14	7
111		Total Credits	9	0	14	16

<sup>\*</sup>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
CS522PE	Advanced Operating Systems
CS523PE	Informational Retrieval Systems
CS524PE	Distributed Databases
CS525PE	Natural Language Processing

#### Professional Elective - III

CS611PE	Concurrent Programming
CS612PE	Network Programming
CS613PE	Scripting Languages
CS614PE	Mobile Application Development
CS615PE	Software Testing Methodologies

<sup>\*</sup> Courses in PE - III and PE - III Lab must be in 1-1 correspondence.

#### Professional Elective - IV

CS711PE	Graph Theory	2-102-32-32-
CS712PE	Introduction to Embedded Systems	

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<sup>\*</sup>MC - Satisfactory/Unsatisfactory

## 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	Т	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	()	()	3
4		Professional Elective – III	3	0	()	3
5		Professional Elective – IV	3	()	()	3
6	CS703PC	Data Mining Lab	0	()	3	2
7		PE-II Lab #	0	0	3	2
	CS751PC	Python Programming Lab				
	CS752PC	Android Application Development Lab				
	CS753PC	Linux programming Lab				
	CS754PC	R Programming Lab	1			1
	CS755PC	Internet of Things Lab				
8	CS705PC	Industry Oriented Mini Project	()	-0-	3	2
9	CS706PC	Seminar	0	()	2	1
		Total Credits	17	0	11	24

<sup>\*</sup> 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	Т	P	Credits
1		Open Elective – III	3	()	-0	3
2		Professional Elective - V	3	()	()	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 - 1

CS611PE	Mobile Computing
CS612PE	Design Patterns
CS613PE	Artificial Intelligence
CS614PE	Information Security Management (Security Analyst - I)
CS615PE	Introduction to Analytics (Associate Analytics - 1)
	1

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### Professional Elective - II

CS721PE	Python Programming
	Android Application Development
CS723PE	Linux Programming
CS724PE	R Programming
CS725PE	Internet of Things

## Professional Elective - III

CS731PE	Distributed Systems
CS732PE	Machine Learning
CS733PE	Cloud Computing
CS734PE	Information Security Assessment and Audit (Security Analyst - II)
CS735PE	Big Data Analytics (Associate Analytics - 11)

## Professional Elective - IV

CS741PE	Computer Graphics
CS742PE	Object Oriented Analysis and Design
CS743PE	E-Commerce
CS744PE	Computer Forensics
CS745PE	Web Services and Service Oriented Architecture

## Professional Elective - V

CS851PE	Natural Language Processing
CS852PE	Middleware Technologies
CS853PE	Big Data Analytic Techniques
CS854PE	Information Security Incident Response and Management (Security Analyst - III)
CS855PE	Predictive Analytics (Associate Analytics - III)

## Professional Elective - VI

CS861PE	Software Testing Methodologies	
CS862PE	Semantic Web and Social Networks	
CS863PE	Parallel Programming	Sec.
CS864PE	Cyber security	22
CS865PE	Human Computer Interaction	

<sup>\*</sup>Open Elective subjects' syllabus is provided in a separate document.

\*Open Elective – Students should take Open Electives from the List of Open Electives Offered by Other Departments/Branches Only.

Ex: - A Student of Mechanical Engineering can take Open Electives from all other departments/branches except Open Electives offered by Mechanical Engineering Departments

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## MASTER OF BUSINESS ADMINISTRATION MBA (Regular) R-19 Effective from Academic Year 2019 - 20 Admitted Batch

## COURSE STRUCTURE AND SYLLABUS

#### I Year I Semester

I Year I Semester		<del>-1</del> . 1		-	- 111
Course Code	Course Title	<u> </u>	T	Р	Credits
19MBA01	Management and Organizational Behaviour	3	1	0	4
19MBA02	Business Economics	3	1	0	4
19MBA03	Financial Accounting & Analysis	3	1	0	4
19MBA04	Research Methodology and Statistical Analysis	3	1	0	4
19MBA05	Legal and Business Environment	3	1	0	4
Open Elective-I 19MBA06	6A Business Ethics and Corporate Governance 6B Project Management 6C Technology Management 6D Cross Cultural Management	3	0	0	3
19MBA07	Business Communication Lab.	0	0	2	2
19MBA08	Statistical Data Analysis Lab	0	0	2	2
	TOTAL	18	5	4	27

#### I Year II Semester

Course Code	Course Title	L	Т	P	Credits
19MBA09	Human Resource Management	3	1	0	4
19MBA10	Marketing Management	3	1	0	. 4
19MBA11	Financial Management	3	1	0	4
19MBA12	Quantitative Analysis for Business Decisions	3	1	0	4
19MBA13	Entrepreneurship	3	,1	0	4
19MBA14	Logistics & Supply Chain Management	3	1	0	4
Open Elective-II 19MBA15	15A Total Quality Management 15B Marketing Research 15C International Business 15D Rural Marketing	3	0	0	3
	TOTAL	21	6	0	A 27

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## Internship during Summer vacation (after Semester –II)

#### Il Year I Semester

Course Code	Course Title	L	T	Р	Credits
19MBA16	Production & Operations  Management	3	1	0	.4
19MBA17	Management Information Systems	3	1	0	4
19MBA18	Data Analytics	3	1	0	4
19MBA19 M1/H1/FI/E1	(MRKG/HRM/FIN/ENTP)	3	1	0	4
19MBA20 M2/H2/F2/E2	(MRKG/HRM/FIN/ENTP)	3	.1	0	4
19MBA21 M3/H3/3I/E3	(MRKG/HRM/FIN/ENTP)	3	1_	0	4
19MBA22	Summer Internship	0	0	0	2
	TOTAL	18	6	3	26

## Il Year II Semester

Course Code	Course Title	L	T	P_	Credits
19MBA 23	Strategic Management	3	1	0	4
19MBA 24 M4/H4/F4/E4	(MRKG/HRM/FIN/ENTP)	3	1	0	4
19MBA25 M5/H5/F5/E5	(MRKG/HRM/FIN/ENTP)	3	1	0	4
19MBA26 M6/H6/F6/E6	(MRKG/HRM/FIN/ENTP)	3	1	0	4
19MBA27	Pre-submission project Seminar	0	0	2	2
19MBA28	Main Project Viva-Voce	0	2	4	4
	TOTAL	12	6	6	22

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#### LIST OF ELECTIVE SUBJECTS

Students have to select any One Specialization (Marketing, Finance, Human Resources, and Entrepreneurship) and he/she needs to select the Core Elective subjects listed under the chosen specialization only.

Course Code	Specialization	Credits
	MARKETING	
19MBA19M1	Digital Marketing	4
19MBA20 M2	Advertising and Sales Management	4
19MBA21 M3	Consumer Behaviour	4
19MBA24 M4	Customer Relationship Management	4
19MBA25 M5	International Marketing	4
19MBA26 M6	Services Marketing	4
	FINANCE	
19MBA19F1	Security Analysis and Portfolio Management	4
19MBA20 F2	Financial Institutions, Markets & Services	4
19MBA21 F3	Strategic Management Accounting	4
19MBA24 F4	International Financial Management	4
19MBA25 F5	Strategic Investment and Financing Decisions	4
19MBA26F6	Risk Management and Financial Derivatives	4
	HUMAN RESOURCES	
19MBA19H1	Performance Management Systems	4
19MBA20 H2	Learning and Development	4
19MBA21 H3	Management of Industrial Relations	4
19MBA24 H4	International Human Resource Management	4
9MBA25H5	Leadership and Change Management	4
9MBA26 H6	Talent and Knowledge Management	4
	ENTREPRENEURSHIP	
9MBA19E1	Startup Management	4
9MBA20 E2	MSME Management	4
9MBA21 E3	Family Business Management	4
9MBA24E4	Entrepreneurial Finance	4
9MBA25 E5	Entrepreneurial Marketing	4
9MBA26 E6	Creativity Innovation and Entrepreneurship	4 /

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