



**sasi** INSTITUTE OF  
TECHNOLOGY &  
autonomous ENGINEERING

Accredited by **NAAC** with "A" Grade  
Recognised by **UGC** under section 2(f) & 12(B)  
Approved by **AICTE** - NEW Delhi  
Permanently Affiliated to **JNTUK, SBTET**  
Ranked as "A" Grade by Govt. of A.P.

Department of Civil Engineering

**B. Tech. (Civil Engineering)**  
**SITE 18 Regulation**  
**Semester I (First Year)**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMEGT1010	Technical English	3	0	0	3
2	18CMMAT1020	Engineering Mathematics-I	3	1	0	4
3	18CMCHT1030	Engineering Chemistry	3	1	0	4
4	18CMEET1040	Basic Electrical Engineering	3	1	0	4
5	18CMEGL1050	English Communication skills lab	0	0	2	1
6	18CMCHL1060	Engineering Chemistry Lab	0	0	3	1.5
7	18CMEEL1070	Basic Electrical Engineering Lab	0	0	3	1.5
8	18CMMSN1080	Constitution of India, professional ethics & human rights (Non - Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

**I B.TECH II SEM COURSE STRUCTURE**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMMAT2010	Engineering Mathematics II	3	1	0	4
2	18CEPHT2020	Engineering Physics	3	1	0	4
3	18CMCST2030	Programming for problem-solving	3	0	0	3
4	18CMMEL2040	Engineering Graphics	1	0	4	3
5	18CEPHL2050	Engineering Physics Lab	0	0	3	1.5
6	18CMCSL2060	Programming for problem-solving Lab	0	0	4	2
7	18CMMEL2070	Work Shop/ Manufacturing practice	0	0	3	1.5
8	18CMCHN2080	Environmental Science (Non - Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

**Course Structure for B.Tech. (Civil  
Engineering) Semester III (Second year)**

S. No	Course Code	Course Title	L	T	P	C
1	18CEMAT3010	Engineering Mathematics-III	3	1	0	4
2	18CMCET3020	Engineering Mechanics	3	1	0	4
3	18CECET3030	Engineering Geology	2	0	0	2
4	18CECET3040	Surveying & Geomatics	3	0	0	3
5	18CECET3050	Building Materials & Concrete Technology	3	0	0	3
6	18CECEL3060	Engineering Geology Lab	0	0	3	1.5
7	18CECEL3070	Surveying Field work lab	0	0	3	1.5
8	18CECEL3080	Computer-aided Civil Engineering Drawing Lab	0	0	3	1.5
9	18CEECN3090	Basic Electronics (MC)	3	-	-	-
<b>Total Credits</b>						<b>20.5</b>

**Course Structure for B.Tech. (Civil  
Engineering) Semester IV (Second year)**

S. No	Course Code	Course Title	L	T	P	C
1	18CECET4010	Fluid Mechanics	3	0	0	3
2	18CECET4020	Strength of Materials	3	0	0	3
3	18CECET4030	Environmental Engineering	3	0	0	3
4	18CECET4040	Transportation Engineering	3	0	0	3
5	18CMMST4050	Engineering Economics and Financial Management	3	0	0	3
6	18CECEL4060	Strength of Material lab	0	0	3	1.5
7	18CECEL4070	Environmental Engineering Lab	0	0	3	1.5
8	18CECEL4080	Material Testing Lab	0	0	2	1.5
<b>Total Credits</b>						<b>19.5</b>

**Course Structure for B.Tech. (Civil Engineering)**

**Semester V (Third year)**

S.No	Subject Code	Subject Title	L	T	P	C
1	18CMBIT5010	Biology for Engineers	2	1	0	3
2	18CECET5020	Theory of Structures-I	3	0	0	3
3	18CECET5030	Geo-Technical Engineering	2	0	0	2
4	18CECET5040	Hydrology and Water Resources Engineering	3	0	0	3
5	18CECET5050	Hydraulic Engineering	3	0	0	3
6	18CE--O506x	<b>OPEN ELECTIVE-I</b>	3	0	0	3
7	18CECEL5070	Survey Field Camp	0	0	3	1.5
8	18CECEL5080	Geo-Technical Engineering Lab	0	0	3	1.5
9	18CECEL5090	Fluid Mechanics & Hydraulic Machinery Lab	0	0	2	1.5
<b>Total Credits</b>						<b>21.5</b>

**Open Elective Courses**

1	18xxCEOxxxx	Civil Engineering Societal & Global Impact
2	18xxCEOxxxx	Introduction to Civil Engineering
3	18xxCEOxxxx	Disaster Management
4	18xxCEOxxxx	Environmental Pollution and Control
5	18xxCEOxxxx	Building Materials
6	18xxCEOxxxx	Green Buildings and Sustainability

**Course Structure for B.Tech. (Civil Engineering)**

**Semester VI (Third year)**

S.No	Subject Code	Subject Title	L	T	P	C
1	18CMEGT6010	Personality Development & professional Communication	2	0	0	2
2	18CECET6020	Theory of Structures-II	3	0	0	3
3	18CECET6030	Reinforced Concrete Structures	3	0	0	3
4	18CE--O604x	<b>OPEN ELECTIVE-II</b>	3	0	0	3
5	18CECET605x	<b>ELECTIVE-I</b>	3	0	0	3
6	18CECEL6060	Irrigation Engineering & Drawing Lab	0	0	3	1.5
7	18CECEL6070	Software Applications in Civil Engineering	0	0	3	1.5
8	18CECEC6080	Term Paper with Seminar	0	2	0	2
9	18CECEN6090	Advanced Methods in Structural Analysis	-	-	-	-
<b>Total Credits</b>						<b>19</b>

**B.Tech. (Civil Engineering)****Semester VII (Fourth Year)**

S.No.	Course Code	Course Title	L	T	P	C
1	18CECET7010	Contracts, Specifications & Project Management	3	0	0	3
2	18CECET7020	Design of Steel Structures	3	0	0	3
3	18CE--o703x	<b>Open Elective-III</b>	3	0	0	3
4	18CECEP704x	<b>Elective-II</b>	3	0	0	3
5	18CECEP705x	<b>Elective-III</b>	3	0	0	3
6	18CECEL7060	Structural design and drawing Lab	0	0	3	1.5
7	18CECER7070	Project phase-I	0	0	8	04
8	18CECEC7080	Internship with seminar	0	0	0	2
Total Credits						22.5

**Semester VIII (Fourth Year)**

S.No.	Course Code	Course Title	L	T	P	C
1	18CECEP8014	<b>Elective-IV</b>	3	0	0	3
2	18CECEP8025	<b>Elective -V</b>	3	0	0	3
3	18CECEP8036	<b>ElectiveVI</b>	3	0	0	3
4	18CECEP8047	<b>ElectiveVII</b>	3	0	0	3
5	18CECER8050	Project phase-II	0	0	12	07
6	18CECER8060	Co Curricular and Extra Curricular Activity (Mandatory Course)	3	0	0	0
Total Credits						19

**Open Elective Courses offered by Dept. of CE to Other Depts.**

1	18xxCEOxxxx	Civil Engineering Societal & Global Impact
2	18xxCEOxxxx	Introduction to Civil Engineering
3	18xxCEOxxxx	Disaster Management
4	18xxCEOxxxx	Environmental Pollution and Control
5	18xxCEOxxxx	Building Materials
6	18xxCEOxxxx	Green Buildings and Sustainability

**Program Elective Course:**

Elective	Title of the Subject
PEC-I	Foundation Engineering
	Architecture & Town Planning
	Structural Analysis by Matrix Methods
	Remote Sensing & GIS Applications
PEC-II	Transport of water and Waste Water
	Advanced Concrete Technology
	Surface Hydrology
	Offshore Engineering
PEC-III	Advanced Structural Analysis
	Advanced Transportation Engineering
	Earth Retaining Structures
	Rural Water Supply and Onsite Sanitation Systems
PEC-IV	Intelligent Transportation System
	Ground Improvement Techniques
	Environmental Impact Assessment And Environment Management Planning
	Engineering with Geo-Synthetics
PEC-V	Pre-Stressed Concrete
	Advanced Foundation Engineering
	Groundwater Development & Management
	Solid and hazardous waste management
PEC-VI	Air and Noise pollution and control
	Soil Dynamics and Machine Foundations
	Bridge Engineering
	Contracts management
PEC-VII	Repairs and Rehabilitation of Structures
	Wood Structures
	Transportation Economics
	Sustainable Construction Methods

*M. Rama Rao*  
HoD

Head of the Dept - Civil  
Sasi Institute of Technology & Engineering  
TADEPALLIGUDEM - 534 101  
\* W.G. Dist., A.P



20-21

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Department of Electrical & Electronics Engineering

**I -B. Tech I- Semester Approved Course structure for the Academic Year 2018-  
2019 Common for ME/CE/EEE**

SN	Subject Code	Subject title	L	T	P	C
1	18CMEGT1010	Technical English	3	1		4
2	18CMMAT1020	Engineering Mathematics-I	3	1		4
3	18CMCHT1030	Engineering Chemistry	2			2
4	18CMEET1040	Basic Electrical Engineering	3	1		4
5	18CMEGL1050	English Communication Lab			2	1
6	18CMCHL1060	Engineering Chemistry Lab			3	1.5
7	18CMEEL1070	Basic Electrical Engineering Lab			2	1
8	18CMMSM1080	Constitution of India, Professional Ethics & Human Rights (MC)				
<b>Total</b>			<b>11</b>	<b>3</b>	<b>7</b>	<b>17.5</b>

**I B.Tech II Semester Approved Course structure for the Academic Year 2018-2019  
Common for ME/CE/EEE**

SN	Subject Code	Subject title	L	T	P	C
1	18CMMAT2010	Engineering Mathematics II	3	1		4
2	18EEPHT2020	Engineering Physics	3	1		4
3	18CMCST2030	Programming for Problem solving	3	0		3
4	18CMMEL2040	Engineering Graphics	1		4	3
5	18EEPHL2050	Engineering Physics Lab			3	1.5
6	18CMCSL2060	Programming for Problem solving Lab			4	2
7	18CMMEL2070	Work Shop/Manufacturing practice	1		4	3
8	18CMCHN2080	Environmental Science (MC)				
<b>Total</b>			<b>11</b>	<b>2</b>	<b>15</b>	<b>20.5</b>

**II -B. Tech EEE I- Semester Approved Course structure for the Academic Year 2019-2020**

SN	Subject Code	Subject title	L	T	P	C
1	18CMMAT3010	Engineering Mathematics III	3	1		4
2	18EEEET3020	Analog Electronics	3			3
3	18EEEET3030	Electromagnetic fields	3	1		4
4	18EEEET3040	Electrical Circuit Analysis	3	1		4
5	18EEEET3050	Electrical Machines I	3			3
6	18EEEEL3060	Analog Electronics Lab			3	1.5
7	18EEEEL3070	Electrical Circuit Analysis Lab			3	1.5
8	18EEEEL3080	Electrical Machines I Lab			3	1.5
<b>Total</b>			<b>15</b>	<b>3</b>	<b>9</b>	<b>22.5</b>

**II B. Tech EEE II Semester Approved Course structure for the Academic Year 2019-2020**

SN	Subject Code	Subject title	L	T	P	C
1	18EEEET4010	Signals & Systems	3			3
2	18CMMET4020	Engineering Mechanics	3	1		4
3	18EEEET4030	Digital Electronics	3			3
4	18EEEET4040	Control Systems	3			3
5	18EEEET4050	Electrical Machines II	3			3
6	18EEEEL4060	Digital Electronics Lab			3	1.5
7	18EEEEL4070	Control Systems Lab			3	1.5
8	18EEEEL4080	Electrical Machines II Lab			3	1.5
<b>Total</b>			<b>14</b>	<b>1</b>	<b>9</b>	<b>20.5</b>

III B. Tech EEE I- Semester Approved Course structure for the Academic Year 2020-2021

SN	Subject Code	Subject title	L	T	P	C
1	18EEEEET5010	Microprocessors	3			3
2	18EEEEET5020	Power Systems – I (Apparatus and Modeling)	3			3
3	18CMMST5030	Management Science	3			3
4	18EEEEET5040	Power Electronics	3			3
5	18EEXXO5051	Open Elective – 1	3			3
6	18EEEEEL5060	Microprocessors Lab			3	1.5
7	18EEEEEL5070	Power Systems-I Lab			3	1.5
8	18EEEEEL5080	Power Electronics Lab			3	1.5
Total			15		9	19.5

III B. Tech EEE II Semester Approved Course structure for the Academic Year 2020-2021

SN	Subject Code	Subject title	L	T	P	C
1	18CMBIT6010	Biology for Engineers	3			3
2	18CMEGT6020	Personality Development & Professional Communication	2			2
3	18EEEEET6030	Power Systems – II (Operation and Control)	3			3
4	18EEEEET6040	Electrical Measurements & Instrumentation	3			3
5	18CMMST6050	Engineering Economics and Financial management	3			3
6	18EEEEEP606X	Program Elective - 1	3			3
7	18EEEEEL6070	Power Systems – II Lab			3	1.5
8	18EEEEEL6080	Measurements and Instrumentation Lab			3	1.5
9	18EEEEEC6090	Term Paper with Seminar				2
Total			16		6	21

Program Elective – 1

18EEEEEP6061	Line Commutated and Active Rectifiers
18EEEEEP6062	HVDC Transmission Systems
18EEEEEP6063	Control Systems Design

**IV B. Tech EEE I Semester Approved Course structure for the Academic Year 2021-2022**

SN	Subject Code	Subject title	L	T	P	C
1	18EEET7010	Power System Protection	3			3
2	18EEEEP702X	Program Elective -2	3			3
3	18EEEEP703X	Program Elective -3	3			3
4	18EEEO7042	Open Elective-2	3			3
5	18EEEO7053	Open Elective-3	3			3
6	18EEEL7060	Electronics Design Lab			3	1.5
7	18EEER7070	Project Phase-I			8	4
8	18EEEC7080	Industry Internship (During summer vacation)				2
<b>Total</b>			<b>15</b>		<b>11</b>	<b>22.5</b>

**Program Elective – 2**

18EEEEP7021	Electrical Drives
18EEEEP7022	Smart Grid
18EEEEP7023	Optimization Techniques

**Program Elective – 3**

18EEEEP7031	Electrical and Hybrid Vehicles
18EEEEP7032	Power System Dynamics and Stability
18EEEEP7033	Digital signal Processing

**IV B. Tech EEE I Semester Approved Course structure for the Academic Year 2021-2022**

SN	Subject Code	Subject title	L	T	P	C
1	18EEEP801X	Program Elective -4	3			3
2	18EEEP802X	Program Elective -5	3			3
3	18EEEO8034	Open Elective-4	3			3
4	18EEER8040	Project Phase-II			14	7
<b>Total</b>			<b>9</b>		<b>14</b>	<b>16</b>

**Program Elective – 4**

18EEEP8011	Advanced Electric Drives
18EEEP8012	Electrical Energy Conservation And Auditing
18EEEP8013	Intelligent Control & Its Applications

**Program Elective – 5**

18EEEEEP8021	FACTS
18EEEEEP8022	Power Quality
18EEEEEP8023	Digital Control Systems

**Open Electives offered by EEE department**

SN	Subject Code	Subject title	L	T	P	C
1	18XXEEM0XA	Control system design	3			3
2	18XXEEM0XB	Optimization techniques	3			3
3	18XXEEM0XC	Wind and Solar Energy Systems	3			3
4	18XXEEM0XD	Electrical and Hybrid Vehicles	3			3
5	18XXEEM0XE	Intelligent control & its applications	3			3
6	18XXEEM0XF	Digital Signal Processing	3			3
7	18XXEEM0XG	Electrical materials	3			3
8	18XXEEM0XH	Digital Control Systems	3			3
9	18XXEEM0XI	Industrial Electrical Systems	3			3
10	18XXEEM0XJ	Advanced Control Systems	3			3
<b>Total</b>			<b>12</b>			<b>12</b>

  
Head of the department

HEAD OF THE DEPARTMENT OF  
ELECTRICAL & ELECTRONICS ENGG  
SASI INSTITUTE OF TECH & ENGG  
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Department of Mechanical Engineering  
Course structure for the Academic Year 2018-19

**B. Tech. (Mechanical Engineering)**  
**Semester I (First Year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18CMEGT1010	Technical English	2			3
2.	18CMMAT1020	Engineering Mathematics-I	3	1		4
3.	18CMCHT1030	Engineering Chemistry	3	1		4
4.	18CMEET1040	Basic Electrical Engineering	3	1		4
5.	18CMEGL1050	English Communication skills lab			2	1
6.	18CMCHL1060	Engineering Chemistry Lab			3	1.5
7.	18CMEEL1070	Basic Electrical Engineering Lab			2	1.5
8.	18CMMSN1080	Constitution of India, Professional Ethics & Human Rights				
<b>Total</b>			<b>11</b>	<b>03</b>	<b>07</b>	<b>19</b>

**B.Tech. (Mechanical Engineering)**  
**Semester II (First Year )**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18CMMAT2010	Engineering Mathematics-II	3	1		4
2.	18MEPHT2020	Engineering Physics	3	1		4
3.	18CMCST2030	Programming for Problem Solving	3	0		3
4.	18CMMEL2040	Engineering Graphics	1		4	3
5.	18MEPHL2050	Engineering Physics Lab			3	1.5
6.	18CMCSL2060	Programming for Problem Solving lab			4	2
7.	18CMMEL2070	Work Shop/Manufacturing Practice	1		4	1.5
8.	18CMCHN2080	Environmental Science				
<b>Total</b>			<b>11</b>	<b>02</b>	<b>15</b>	<b>19</b>



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Department of Mechanical Engineering

**B.Tech. (Mechanical Engineering)**

**Semester III (Second Year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18CMMAT3010	Engineering Mathematics-III	3	1		4
2.	18MEMET3020	Engineering Mechanics	3	1		4
3.	18MEECT3030	Basic Electronics Engg.	3	0		3
4.	18MEMET3040	Manufacturing Processes	3	0		3
5.	18MEMET3050	Thermodynamics	3			3
6.	18MEMET3060	Materials Engineering	3			3
7.	18MEMEL3070	Manufacturing Processes Lab			3	1.5
8.	18MEMEL3080	CAEDP Lab			3	1.5
<b>Total</b>			<b>15</b>	<b>2</b>	<b>06</b>	<b>23</b>

**B.Tech. (Mechanical Engineering)**

**Semester IV (Second year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18MEMET4010	Strength of Materials	3			3
2.	18MEMET4020	Fluid Mechanics & Fluid Machines	3			3
3.	18MEMET4030	Theory of Machines-I	3			3
4.	18MEMET4040	Applied Thermodynamics	3			3
5.	18CMMST4050	Engg. Economics & Financial Management	3			3
6.	18MEMEL4060	Fluid Mechanics & Fluid Machines Lab			3	1.5
7.	18MEMEL4070	Mechanics of Solids & Materials Lab			3	1.5
8.	18MEMEN4080	Machine Drawing Lab				
<b>Total</b>			<b>14</b>	<b>01</b>	<b>06</b>	<b>18</b>



Department of Mechanical Engineering

**B.Tech. (Mechanical Engineering)**

**Semester V (Third year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18CMBIT5010	Biology for Engineers	2	1		3
2.	18MEMET5020	Manufacturing Technology	3			3
3.	18MEMET5030	Design of Machine Elements	3			3
4.	18MEMET5040	Heat Transfer	3			3
5.	18MEXXO505X	Open Elective-I	3			3
6.	18MEMEL5060	Heat Transfer Lab			3	1.5
7.	18MEMEL5070	Manufacturing Technology & Metrology Lab			4	2
8.	18MEMEC5080	Term Paper with Seminar			4	2
<b>Total</b>			<b>15</b>		<b>10</b>	<b>20.5</b>

**B.Tech. (Mechanical Engineering)**

**Semester VI (Third year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18MEMET6010	Theory of Machines-II	3			3
2.	18CMEGT6020	Personality Development & Professional Communication	2			2
3.	18MEMEP603X	Elective-I	3			3
4.	18MEMEP604X	Elective-II	3			3
5.	18MEXXO605X	Open Elective-II	3			3
6.	18MEMEL6060	Theory of Machines Lab			3	1.5
7.	18MEMEL6070	Thermal Engineering Lab			3	1.5
8.	18MEMEL6080	Modelling & Simulation Lab			4	2
9.	18MEMEN6090	Design of Transmission Systems				
<b>Total</b>			<b>14</b>		<b>10</b>	<b>19</b>



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Department of Mechanical Engineering

**B.Tech. (Mechanical Engineering)**

**Semester VII (Fourth Year)**

Sl. No.	Course Code	Course Title	L	T	P	C
1.	18MEMET7010	Operation Research	3			3
2.	18MEMET7020	Instrumentation & Control Systems	3			3
3.	18MEMEP703X	Elective-III	3			3
4.	18MEMEP704X	Elective-IV	3			3
5.	18MEXXO705X	Open Elective-III	3			3
6.	18MEMEL7060	Instrumentation Lab			3	1.5
7.	18MEMEC7070	Internship with Seminar			4	2
8.	18MEMER7080	Project Phase-I			8	4
<b>Total</b>			<b>15</b>		<b>15</b>	<b>22.5</b>

**B.Tech. (Mechanical Engineering)**

**Semester VIII (Fourth Year)**


Sl. No.	Course Code	Course Title	L	T	P	C
1.	18MEMET8010	Automation in Manufacturing	3			3
2.	18MEMEP802X	Elective-V	3			3
3.	18MEMEP803X	Elective-VI	3			3
4.	18MEMEO804X	Open Elective-IV	3			3
5.	18MEMER805X	Project Phase-II			14	7
6.	18MEMCN8060	Co Curricular and Extra Curricular Activity (Mandatory Course)	3			
<b>Total</b>			<b>12</b>		<b>14</b>	<b>19</b>

**Program Elective Courses:**

	Course Code	Course Title
Elective -I	18MEMEP603A	1. Composite Materials
	18MEMEP603B	2. Un-Conventional Machining Processes
	18MEMEP603C	3. Internal Combustion Engines
Elective -II	18MEMEP604A	1. Power Plant Engineering
	18MEMEP604B	2. CAD/CAM
	18MEMEP604C	3. Design for Manufacture
Elective -III	18MEMEP703A	1. Gas Dynamics & Jet Propulsion
	18MEMEP703B	2. Finite Element Methods
	18MEMEP703C	3. Flexible Manufacturing Systems
Elective -IV	18MEMEP704A	1. Automobile Engineering
	18MEMEP704B	2. Mechatronics
	18MEMEP704C	3. Additive Manufacturing
Elective -V	18MEMEP802A	1. Energy Conservation & Management
	18MEMEP802B	2. Non Destructive Evaluation
	18MEMEP802C	3. Solid Mechanics
Elective -VI	18MEMEP803A	1. Refrigeration and Air Conditioning
	18MEMEP803B	2. Computational Fluid Dynamics
	18MEMEP803C	3. Quality & Reliability Engineering

**Open Elective Courses offered by Dept. of ME to Other Depts.**

S. No.	Course Title	Course Code
1	Operations Research	18MEXXON0MA
2	Robotics	18MEXXON0MB
3	Advanced Optimization Techniques	18MEXXON0MC
4	Green Engineering Systems	18MEXXON0MD
5	Production Planning and Control	18MEXXON0ME
6	Nano Technology	18MEXXON0MF

  
Head of the Dept.  
Mechanical Engineering  
Sasi Institute of Technology & Engineering  
(Autonomous)  
Tadepalligudem-534101, W.G. Dist. (A.P.)



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Ranked as **"A"** Grade by Govt. of A.P.

Department of Electronics & Communication Engineering

### Course structure for SITE18 Regulations

**B.Tech. (Electronics & Communication Engineering)**

**Semester I (First year)**

S.No	Course Code	Course Title	L	T	P	C
1	18CMMAT1010	Engineering Mathematics-I	3	1	0	4
2	18ECPHT1020	Engineering Physics	3	1	0	4
3	18CMCST1030	Programming for problem solving	3	0	0	3
4	18CMMEL1040	Engineering Graphics	1	0	4	3
5	18ECPHL1050	Engineering Physics Lab	0	0	3	1.5
6	18CMCSL1060	Programming for problem solving lab	0	0	4	2
7	18CMMEL1070	Work Shop/Manufacturing practice	0	0	3	1.5
8	18CMMEL1080	Environmental Science (Non -Credit course)	0	0	0	0
<b>Total Credits</b>						<b>19</b>

**Semester II (First year)**

S.No	Course Code	Course Title	L	T	P	C
1	18CMEGT2010	Technical English	3	0	0	3
2	18CMMAT2020	Engineering Mathematics II	3	1	0	4
3	18CMCHT2030	Engineering Chemistry	3	1	0	4
4	18CMEET2040	Basic Electrical Engineering	3	1	0	4
5	18CMEGL2050	English Communication skills lab	0	0	2	1
6	18CMCHL2060	Engineering Chemistry Lab	0	0	3	1.5
7	18CMEEL2070	Basic Electrical Engineering Lab	0	0	3	1.5
8	18CMMSN2080	Constitution of India, Professional Ethics & Human Rights (MC)	0	0	0	0
<b>Total Credits</b>						<b>19</b>

**Semester III (Second year)**

S.No	Course Code	Course Title	L	T	P	C
1	18CMMAT3010	Engineering Mathematics-III	3	1	0	4
2	18ECECT3020	Electronic Devices	3	0	0	3
3	18ECECT3030	Network Theory	3	0	0	3
4	18ECECT3040	Signals & Systems	3	0	0	3
5	18ECECT3050	Probability & Stochastic Processes	3	0	0	3
6	18ECECL3060	Electronic Devices Lab	0	0	3	1.5
7	18ECECL3070	Network Theory Lab	0	0	3	1.5
8	18ECECN3080	Pulse & Digital Circuits (MC)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

**Semester IV (Second year)**

S.No	Course Code	Course Title	L	T	P	C
1	18ECECT4010	Digital System Design	3	0	0	3
2	18CMMET4020	Engineering Mechanics	3	1	0	4
3	18ECECT4030	Electro Magnetic Waves & Transmission Lines	3	0	0	3
4	18ECECT4040	Analog Circuits	3	0	0	3
5	18ECECT4050	Analog & Digital Communications	3	0	0	3
6	18ECECL4060	Digital System Design Lab	0	0	3	1.5
7	18ECECL4070	Analog Circuits Lab	0	0	3	1.5
8	18ECECL4080	Analog & Digital Communications Lab	0	0	3	1.5
<b>Total Credits</b>						<b>20.5</b>

Semester V (Third year)

S.No	Course Code	Course Title	L	T	P	C
1	18ECECT5010	Control Systems	3	0	0	3
2	18CMEGT5020	Personality Development & Professional Communication	2	0	0	2
3	18CMMST5030	Management Science	3	0	0	3
4	18ECECT5040	Micro Processors & Micro Controllers	3	0	0	3
5	18ECECT5050	Digital Signal Processing	3	0	0	3
6	18ECECL5060	Micro Processors & Micro Controllers Lab	0	0	3	1.5
7	18ECECL5070	Digital Signal Processing Lab	0	0	3	1.5
8	18ECECR5080	Term Paper with Seminar	2	0	0	2
<b>Total Credits</b>						<b>19</b>

Semester VI (Third year)

S.No	Course Code	Course Title	L	T	P	C
1	18CMBIT6010	Biology for Engineers	3	0	0	3
2	18ECECT6020	Computer Architectures & Organization	3	0	0	3
3	18ECECP603X	Program Elective-1	3	0	0	3
4	18ECECP604X	Program Elective-2	3	0	0	3
5	18CMMST6050	Engineering Economics and Financial Management	3	0	0	3
6	18ECECT6060	Computer Networks	3	0	0	3
7	18ECECL6070	Computer Networks Lab	0	0	3	1.5
8	18ECECL6080	Electronic Design Workshop	0	0	4	2
<b>Total Credits</b>						<b>21.5</b>

**Semester VII (Fourth year)**

S.No	Course Code	Course Title	L	T	P	C
1	18ECECT7010	Electronic Measurements & Instrumentation	3	0	0	3
2	18ECECP702X	Program Elective-3	3	0	0	3
3	18ECECP703X	Program Elective-4	3	0	0	3
4	18ECXXO704X	Open Elective-1	3	0	0	3
5	18ECXXO705X	Open Elective-2	3	0	0	3
6	18ECECL706X	Elective Related Lab	0	0	4	2
7	18ECECR7070	Project Work Phase-I	0	0	8	4
8	18ECECR7080	Internship	0	0	0	2
<b>Total Credits</b>						<b>23</b>

**Semester VIII (Fourth year)**

S.No	Course Code	Course Title	L	T	P	C
1	18ECECP801X	Program Elective-5	3	0	0	3
2	18ECECP802X	Program Elective-6	3	0	0	3
3	18ECXXO803X	Open Elective-3	3	0	0	3
4	18ECXXO804X	Open Elective-4	3	0	0	3
5	18ECECR8050	Project Work Phase-II	0	0	14	7
6	18ECECC8060	Co-Curricular and Extra Curricular Activity (MC)	0	0	0	0
<b>Total Credits</b>						<b>19</b>

**Program Elective Courses:**

Program Elective-1	18ECECP603A	Antennas & Wave Propagation
	18ECECP603B	CMOS VLSI Design
	18ECECP603C	Advanced Digital Signal Processing
Program Elective-2	18ECECP604A	Microwave Theory and Techniques
	18ECECP604B	Digital Design through Verilog HDL
	18ECECP604C	Digital Image Processing
Program Elective-3	18ECECP702A	Optical Communications
	18ECECP702B	Low Power VLSI
	18ECECP702C	Information Theory & Coding


Program Elective-4	18ECECP703A	Wireless Sensor Networks
	18ECECP703B	Bio-Medical Electronics
	18ECECP703C	Embedded System Design
Program Elective-5	18ECECP801A	Cellular Mobile Communication
	18ECECP801B	VLSI Physical Design Automation
	18ECECP801C	Internet of Things and its applications
Program Elective-6	18ECECP802A	Radar Systems
	18ECECP802B	Nano Electronics
	18ECECP802C	Embedded & Real Time Concepts

**Elective Related Laboratories:**

Elective Related Lab	18ECECL706A	Microwave & Optical Communication Lab
	18ECECL706B	VLSI Design Lab
	18ECECL706C	Embedded Systems Lab

**Open Elective Courses offered by ECE to other Departments:**

Open Electives	18XXECO0XA	Microcontroller Programming
	18XXECO0XB	Internet of Things and its applications
	18XXECO0XC	Digital Signal Processing
	18XXECO0XD	Digital Image Processing
	18XXECO0XE	Antennas and Wave Propagation
	18XXECO0XF	Cellular Mobile Communication
	18XXECO0XG	VLSI Design
	18XXECO0XH	VLSI Physical Design Automation

  
**Head of the Department**

**Head of the Department**  
 Electronics & Communication Engineering  
 Sasi Institute of Technology & Engineering  
 Tadepalligudem-534 101. W.G.Dist.,A.P.

**I B. Tech I Semester Course structure for the Academic Year 2018-2019**  
**Common for ECE/CSE/IT**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMMAT1010	Engineering Mathematics-I	3	1	0	4
2	18CSPHT1020	Engineering Physics	3	1	0	4
3	18CMCST1030	Programming for problem solving	3	0	0	3
4	18CMMEEL1040	Engineering Graphics	1	0	4	3
5	18CSPHL1050	Engineering Physics Lab	0	0	3	1.5
6	18CMCSL1060	Programming for problem solving lab	0	0	4	2
7	18CMMEEL1070	Work Shop/ Manufacturing practice	0	0	3	1.5
8	18CMCHN1080	Environmental Science (Non -Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

**I B. Tech II Semester Course structure for the Academic Year**  
**2018-2019**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMEGT2010	Technical English	3	0	0	3
2	18CMMAT2020	Engineering Mathematics II	3	1	0	4
3	18CMCHT2030	Engineering Chemistry	3	1	0	4
4	18CMEET2040	Basic Electrical Engineering	3	1	0	4
5	18CMEGL2050	English Communication skills lab	0	0	2	1
6	18CMCHL2060	Engineering Chemistry Lab	0	0	3	1.5
7	18CMEEL2070	Basic Electrical Engineering Lab	0	0	3	1.5
8	18CMMSN2080	Constitution of India, professional ethics & human rights (Non - Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

CSE Head of the Department 

**Course Structure for B.Tech.**  
**(Computer Science and Engineering & Information Technology) Semester III**  
**(Second year)**

S. No	Course Code	Course Title	L	T	P	C
1	18CMMAT3010	Engineering Mathematics-III	3	1	0	4
2	18CSECT3020 18ITECT3020	Digital Electronics	3	0	0	3
3	18CSECT3030 18ITECT3030	Analog Electronic Circuits	3	0	0	3
4	18CSCST3040 18ITITT3040	Discrete Mathematics	3	1	0	4
5	18CSCST3050 18ITITT3050	Data Structures	3	0	0	3
6	18CSECL3060 18ITECL3060	Analog & Digital Electronics Lab	0	0	3	1.5
7	18CSCSL3070 18ITITL3070	IT Workshop Lab	0	0	3	1.5
8	18CSCSL3080 18ITITL3080	Data Structures Lab	0	0	3	1.5
<b>Total Credits</b>						<b>21.5</b>

**(Computer Science and Engineering & Information Technology) Semester IV**  
**(Second year)**

S. No	Course Code	Course Title	L	T	P	C
1	18CSECT4010 18ITECT4010	Signals & Systems	3	0	0	3
2	18CMCET4020 18CMCET4020	Engineering Mechanics	3	0	0	3
3	18CSCST4030 18ITITT4030	Computer Organization	3	0	0	3
4	18CSCST4040 18ITITT4040	Algorithm Design and Analysis	3	0	0	3
5	18CSCST4050 18ITITT4050	Java Programming	3	0	0	3
6	18CSCSL4060 18ITITL4060	Computer Organization Lab	0	0	3	1.5
7	18CSCSL4070 18ITITL4070	Algorithm Design and Analysis Lab	0	0	3	1.5
8	18CSCSL4080 18ITITL4080	Java Programming Lab	0	0	3	1.5
<b>Total Credits</b>						<b>19.5</b>

CSE Head of the Department

### III B. Tech I Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMBIT5010	BS	Biology for Engineers	3			3
02	18CMEGT5020	HS	Personality Development & Professional Communication	2			2
03	18CMMST5030	HS	Management Science	3			3
04	18CSCST5040	PC	Computer Networks	3			3
05	18CSCST5050	PC	Operating Systems	3			3
06	18CSCSL5060	PC	Computer Networks Lab			3	1.5
07	18CSCSL5070	PC	Operating Systems Lab			3	1.5
08	18CSCSL5080	PC	R Programming Lab			3	1.5
				14		9	18.5
				<b>23</b>			

### III B. Tech II Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CSCST6010	PC	Formal Languages & Automata Theory	3			3
02	18CSCST6020	PC	Database Systems	3			3
03	18CSCSP603G	PE	Program Elective-I	3			3
04	18CSHHO604G	OE	Open Elective-I	3			3
05	18CMMST6050	HS	Engineering Economics & Financial Management	3			3
06	18CSCSL6060	PC	Database Systems Lab			3	1.5
07	18CSCSL6070	PC	Python Programming Lab			3	1.5
08	18CSCSR6080	PROJ	Term Paper + Seminar			4	2
				15		10	20
				<b>26</b>			

  
**CSE Head of the Department**

#### IV B. Tech I Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CSCST7010	PC	Compiler Design	3			3
02	18CSCSP702G	PE	Program Elective-II	3			3
03	18CSCSP703G	PE	Program Elective-III	3			3
04	18CSHHO704G	OE	Open Elective-II	3			3
05	18CSHHO705G	OE	Open Elective-III	3			3
06	18CSCSL7060	PC	Compiler Design Lab			3	1.5
07	18CSCSR7070	PROJ	Internship				2
08	18CSCSR7080	PROJ	Project-I			8	4
				15	0	11	22.5
				<b>26</b>			

#### IV B. Tech II Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CSCSP801G	PE	Program Elective-IV	3			3
02	18CSCSP802G	PE	Program Elective-V	3			3
03	18CSCSP803G	PE	Program Elective-VI	3			3
04	18CSHHO804G	OE	Open Elective-IV	3			3
05	18CSCSR8050	PROJ	Project-II			14	7
06		PROJ	Co-curricular/Extra-curricular Activities	2			1
				14		14	20
				<b>28</b>			

  
**CSE Head of the Department**

<b>Program Elective-I</b>	
18CSCSP6031	Software Engineering
18CSCSP6032	Network Protocols
18CSCSP6033	Mobile Application Development
<b>Program Elective-II</b>	
18CSCSP7021	Unified Modeling Language
18CSCSP7022	Cryptography & Network Security
18CSCSP7023	Data Warehousing & Mining
<b>Program Elective-III</b>	
18CSCSP7031	Design Patterns
18CSCSP7032	Cyber Security
18CSCSP7033	Artificial Intelligence
<b>Program Elective-IV</b>	
18CSCSP8011	Software Testing
18CSCSP8012	Mobile Computing
18CSCSP8013	Machine Learning
<b>Program Elective-V</b>	
18CSCSP8021	Software Quality Assurance
18CSCSP8022	Ad-hoc & Sensor Networks
18CSCSP8023	Hadoop & Big Data
<b>Program Elective-VI</b>	
18CSCSP8031	Software Project Management
18CSCSP8032	Cyber Forensics
18CSCSP8033	Data Science

HEAD OF THE DEPARTMENT  
 CSE  
 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
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 WARANANAGAR, CHENNAI - 600 095

  
**CSE Head of the Department**

**Open Electives (offered by CSE chosen by Students other than CSE Department)**

Sl. No.	Subject Title
1 A	Internet of Things
2 B	Block Chain
3 C	Quantum Computing
4 D	Virtual Reality
5 E	Data Structures through C
6 F	Designing Database Management Systems
7 H	Operating Systems Concepts
8 I	R Programming
9 J	Python Programming
10 K	Java Programming
11 L	App Technologies
12 M	Web Technologies
13 N	Artificial Intelligence

  
CSE Head of the Department

**HEAD OF THE DEPARTMENT**  
Computer Science & Engineering  
Sasi Institute of Technology & Engg.  
Tadepalligudem-534 101



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**I B. Tech I Semester Course structure for the Academic Year 2020-21**

**Common for ME/CE/EEE/CST**

S.No	Subject Code	Subject Title	L	T	P	C
1.	18CMEGT1010	Technical English	3	0	0	3
2.	18CMMAT1020	Engineering Mathematics I	3	1	0	4
3.	18CMCHT1030	Engineering Chemistry	3	1	0	4
4.	18CMEET1040	Basic Electrical Engineering	3	1	0	4
5.	18CMEGL1050	English Communication skills lab	0	0	2	1
6.	18CMCHL1060	Engineering Chemistry Lab	0	0	3	1.5
7.	18CMEEL1070	Basic Electrical Engineering Lab	0	0	3	1.5
8.	18CMMSN1080	Constitution of India, professional ethics & human rights ( Non – Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>

**I B.Tech II Semester Course structure for the Academic Year 2020-21**

**Common for ME/CE/EEE/CST**

S. No	Subject Code	Subject Title	L	T	P	C
1.	18CMMAT2010	Engineering Mathematics II	3	1	0	4
2.	18CTPHT2020	Engineering Physics	3	1	0	4
3.	18CMCTT2030	Programming for problem solving	3	0	0	3
4.	18CMMEEL2040	Engineering Graphics	1	0	4	3
5.	18CTPHL2050	Engineering Physics lab	0	0	3	1.5
6.	18CMCTL2060	Programming for problem solving lab	0	0	4	2
7.	18CMMEEL2070	Work Shop/ Manufacturing practice	0	0	3	1.5
8.	18CMCHN2080	Environmental Science (Non- Credit course)	3	0	0	0
<b>Total Credits</b>						<b>19</b>



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**II B. Tech I Semester Course structure for the Academic Year 2021-22**

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMMAT3010	BS	Engineering Mathematics-III	3	1		4
02	18CTECT3020	ES	Digital Electronics	3			3
03	18CTECT3030	ES	Analog Electronic Circuits	3			3
04	18CTCTT3040	PC	Discrete Mathematics	3	1		4
05	18CTCTT3050	PC	Data Structures	3			3
06	18CTECL3060	ES	Analog & Digital Electronics Lab			3	1.5
07	18CTCTL3070	PC	IT Workshop Lab			3	1.5
08	18CTCTL3080	PC	Data Structures Lab			3	1.5
<b>Total</b>							<b>21.5</b>
<b>Credits</b>							

**II B. Tech IISemester Course structure for the Academic Year 2021-22**

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CTECT4010	ES	Signals & Systems	3			3
02	18CMCET4020	ES	Engineering Mechanics	3			3
03	18CTCTT4030	PC	Computer Organization	3			3
04	18CTCTT4040	PC	Algorithm Design and Analysis	3			3
05	18CTCTT4050	PC	Java Programming	3			3
06	18CTCTL4060	PC	Computer Organization Lab			3	1.5
07	18CTCTL4070	PC	Algorithm Design and Analysis Lab			3	1.5
08	18CTCTL4080	PC	Java Programming Lab			3	1.5
<b>Total</b>							<b>19.5</b>
<b>Credits</b>							



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### III B. Tech I Semester Course structure for the Academic Year 2022-23

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMMST5010	HS	Management Science	3			3
02	18CTCTT5020	PC	Database Management Systems	3			3
03	18CTCTT5030	PC	Operating Systems	3			3
04	18CTCTT504X	PE	Professional Elective-I	3			3
05	18CTXXT505X	OE	Open Elective-I	3			3
06	18CTCTL5060	PC	Database Management Systems Lab			3	1.5
07	18CTCTL5070	PC	Operating Systems Lab			3	1.5
08	18CTCTL5090	SOC	Soft Skills & Aptitude Builder – 1			4	2
09	18CMBIN5100	MC	Biology for Engineers	2			0
<b>Total</b>							<b>20</b>
<b>Credits</b>							

#### Professional Elective-I

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18CTCTP504A	Object Oriented Analysis & Design through UML	3	0	0	3
2	18CTCTP504B	Mobile Application Development	3	0	0	3
3	18CTCTP504C	Machine Learning	3	0	0	3

#### Open Elective-I

S.No.	Subject Code	Name of the Subject	L	T	P	Cr
1	18XXCTOX0XA	Internet of Things	3	0	0	3
2	18XXCTOX0XB	Block Chain	3	0	0	3
3	18XXCTOX0XC	Quantum Computing	3	0	0	3



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### III B. Tech II Semester Course structure for the Academic Year 2022-23

S. No.	Code	Type	Subject Title	Hours			
				L	T	P	C
01	18CTCTT6010	PC	Data Warehousing and Data Mining	3			3
02	18CTCTT6020	PC	Computer Networks	3			3
03	18CTCTT6030	PC	Software Engineering	3			3
04	18CTCTT604X	PE	Professional Elective-II	3			3
05	18CTXXT605X	OE	Open Elective-II	3			3
06	18CMMST6060	HS	Engineering Economics & Financial Management	3			3
07	18CTCTL6070	PC	Computer Networks Lab			3	1.5
08	18CTCTL6080	PC	Data Warehousing and Data Mining Lab			3	1.5
09	18CMMAT6090	SOC	Soft Skills & Aptitude Builder - 2			4	2
<b>Total</b>							<b>23</b>
<b>Credits</b>							

#### Professional Elective-II

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18CTCTP604D	Software Testing	3	0	0	3
2	18CTCTP604E	Software Project Management	3	0	0	3
3	18CTCTP604F	Artificial Intelligence	3	0	0	3

#### Open Elective-II

S.No.	Subject Code	Name of the Subject	L	T	P	Cr
1	18XXCTOX0XD	Virtual Reality	3	0	0	3
2	18XXCTOX0XE	Data Structures through C	3	0	0	3
3	18XXCTOX0XF	Designing Database Management Systems	3	0	0	3



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#### IV B. Tech I Semester Course structure for the Academic Year 2023-24

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CTCTT7010	PC	Data Analytics	3			3
02	18CTCTP702X	PE	Professional Elective-III	3			3
03	18CTCTP703X	PE	Professional Elective-IV	3			3
04	18CTCTP704X	PE	Professional Elective-V	3			3
05	18CTXXT705X	OE	Open Elective-III	3			3
06	18CTXXT706X	OE	Open Elective-IV	3			3
07	18CTCTL7070	PC	Internet of Things Lab			3	1.5
08	18CTCTL7080	PC	Data Analytics Lab			3	1.5
09	18CTCTL7090	SOC	MEAN Stack Technologies			4	2
10	18CTCTR7100		Internship				3
<b>Total Credits</b>							<b>26</b>

#### Professional Elective-III

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18CTCTP604G	Design Patterns	3	0	0	3
2	18CTCTP604H	Cyber Security	3	0	0	3
3	18CTCTP604I	Block-Chain Technologies	3	0	0	3

#### Professional Elective-IV

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18CTCTP604J	Software Quality Assurance	3	0	0	3
2	18CTCTP604K	Ad-hoc & Sensor Networks	3	0	0	3
3	18CTCTP604L	Neural Networks and Soft Computing	3	0	0	3

#### Professional Elective-V

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18CTCTP604M	Compiler Design	3	0	0	3
2	18CTCTP604N	Cryptography & Network Security	3	0	0	3
3	18CTCTP604O	Computer Vision	3	0	0	3

#### Open Elective-III

S.No.	Subject Code	Name of the Subject	L	T	P	Cr
1	18XXCTOX0XG	Operating Systems Concepts	3	0	0	3
2	18XXCTOX0XH	R Programming	3	0	0	3
3	18XXCTOX0XI	Python Programming	3	0	0	3



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### Open Elective-IV

S.No.	Subject Code	Name of the Subject	L	T	P	Cr
1	18XXCTOX0XJ	Java Programming	3	0	0	3
2	18XXCTOX0XK	App Technologies	3	0	0	3
3	18XXCTOX0XL	Web Technologies	3	0	0	3
4	18XXCTOX0XM	Artificial Intelligence	3	0	0	3

### IV B. Tech II Semester Course structure for the Academic Year 2023-24

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CTCTR8010	PROJ	Project			12	12
				12			



Head of the Department

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Department of Information Technology

**Course Structure for the Academic Year 2020-2021**

**Regulation SITE18**

**I B. Tech I Semester**

S. No	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMMAT1010	BS	Engineering Mathematics-I	3	1		4
02	18ITPHT1020	BS	Engineering Physics	3	1		4
03	18CMCST1030	ES	Programming for Problem Solving	3			3
04	18CMMEEL1040	ES	Engineering Graphics	1		4	3
05	18ITPHL1050	BS	Engineering Physics Lab			3	1.5
06	18CMCSL1060	ES	Programming for Problem Solving Lab			4	2
07	18CMMEEL1070	ES	Workshop/Manufacturing Practice	0		3	1.5
08	18CMCHN1080	MC	Environmental Science	3			0
				14	2	15	19
				31			

**I B. Tech II Semester**

S. No	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMEGT2010	HS	Technical English	3			3
02	18CMMAT2020	BS	Engineering Mathematics-II	3	1		4
03	18CMCHT2030	BS	Engineering Chemistry	3	1		4
04	18CMEET2040	ES	Basic Electrical Engineering	3	1		4
05	18CMEGL2050	HS	English Communication Skills Lab			2	1
06	18CMCHL2060	BS	Engineering Chemistry Lab			3	1.5
07	18CMEEL2070	ES	Basic Electrical Engineering Lab			3	1.5
08	18CMMSN2080	MC	Indian Constitution, Professional Ethics & Human Rights	3			0
				15	3	8	19
				26			

### II B. Tech I Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMMAT3010	BS	Engineering Mathematics-III	3	1		4
02	18ITECT3020	ES	Digital Electronics	3			3
03	18ITECT3030	ES	Analog Electronic Circuits	3			3
04	18ITITT3040	PC	Discrete Mathematics	3	1		4
05	18ITITT3050	PC	Data Structures	3			3
06	18ITECL3060	ES	Analog & Digital Electronics Lab			3	1.5
07	18ITITL3070	PC	IT Workshop Lab			3	1.5
08	18ITITL3080	PC	Data Structures Lab			3	1.5
				15	2	9	21.5
				26			

### II B. Tech II Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18ITECT4010	ES	Signals & Systems	3			3
02	18CMCET4020	ES	Engineering Mechanics	3			3
03	18ITITT4030	PC	Computer Organization	3			3
04	18ITITT4040	PC	Algorithm Design and Analysis	3			3
05	18ITITT4050	PC	Java Programming	3			3
06	18ITITL4060	PC	Computer Organization Lab			3	1.5
07	18ITITL4070	PC	Algorithm Design and Analysis Lab			3	1.5
08	18ITITL4080	PC	Java Programming Lab			3	1.5
				15		9	19.5
				24			

### III B. Tech I Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18CMBIT5010	BS	Biology for Engineers	3			3
02	18CMEGT5020	HS	Personality Development & Professional Communication	2			2
03	18CMMST5030	HS	Management Science	3			3
04	18ITITT5040	PC	Database Systems	3			3
05	18ITITT5050	PC	Operating Systems	3			3
06	18ITITL5060	PC	Advanced Java and Web Technologies Lab			3	1.5
07	18ITITL5070	PC	Operating Systems & UNIX Programming Lab			3	1.5
08	18ITITL5080	PC	Database Systems Lab			3	1.5
				14		9	18.5
				23			

### III B. Tech II Semester

S. No.	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18ITITF6010	PC	Computer Networks	3			3
02	18ITITF6020	PC	Software Engineering	3			3
03	18ITITP603G	PE	Program Elective-I	3			3
04	18ITITO604G	OE	Open Elective-I	3			3
05	18CMMST6050	HS	Engineering Economics & Financial Management	3			3
06	18ITITL6060	PC	Software Engineering Lab			3	1.5
07	18ITITL6070	PC	Python Programming Lab			3	1.5
08	18ITITR6080	PROJ	Term Paper + Seminar			4	2
				14		9	20
				23			

#### IV B. Tech I Semester

S. No	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18ITIT7010	PC	Cryptography and Network security	3			3
02	18ITITP702G	PE	Program Elective-II	3			3
03	18ITITP703G	PE	Program Elective-III	3			3
04	18ITITO704G	OE	Open Elective-II	3			3
05	18ITITO705G	OE	Open Elective-III	3			3
06	18ITITL7060	PC	Object Oriented Analysis and Design Lab			3	1.5
07	18ITITR7070	PROJ	Internship				2
08	18ITITR7080	PROJ	Project Phase - I			8	4
				15	0	11	22.5
				26			

#### IV B. Tech II Semester

S. No	Subject			Hours			C
	Code	Type	Title	L	T	P	
01	18ITITP801G	PE	Program Elective-IV	3			3
02	18ITITP802G	PE	Program Elective-V	3			3
03	18ITITP803G	PE	Program Elective-VI	3			3
04	18ITITO8040	OE	Open Elective-IV	3			3
05	18ITITR8050	PROJ	Project Phase- II			14	7
06			Co-curricular/Extra-curricular Activities	2			1
				12		14	20
				26			

Program Elective-I	
18ITITP603A	Wireless Sensor Networks
18ITITP603B	UI Design
Program Elective-II	
18ITITP702A	R Programming
18ITITP702B	Software Quality Assurance
Program Elective-III	
18ITITP703A	Cloud Computing
18ITITP703B	Software Testing Methodologies
Program Elective-IV	
18ITITP801A	Distributed Databases
18ITITP801B	Fault Tolerant Systems
Program Elective-V	
18ITITP802A	Big Data Analytics
18ITITP802B	Software Project Management
Program Elective-VI	
18ITITP803A	Open Source Software
18ITITP803B	Optimization Techniques

Open Electives	
18XXIT0XXMA	Office Automation
18XXIT0XXMB	Internet & Web Hosting
18XXIT0XXMC	Cloud Computing
18XXIT0XXMD	E-Commerce
18XXIT0XXME	Statistics and R Programming
18XXIT0XXMF	Open Source software
18XXIT0XXMH	Mobile Application Development

  
**Head of the Department**  
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# **COURSE STRUCTURE AND SYLLABUS**

**For  
B.Tech.**

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**Electronics and Communication Technology**

**With effective from the  
Academic Year  
2020-21**

**I -B. Tech I- Semester Course structure for the  
Academic Year 2020-2021  
Common for ME/CE/EEE/ECT/CST**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMEGT1010	Technical English	3	0	0	3
2	18CMMAT1020	Engineering Mathematics-I	3	1	0	4
3	18CMCHT1030	Engineering Chemistry	3	1	0	4
4	18CMEET1040	Basic Electrical Engineering	3	1	0	4
5	18CMEGL1050	English Communication skills lab	0	0	2	1
6	18CMCHL1060	Engineering Chemistry Lab	0	0	3	1.5
7	18CMEEL1070	Basic Electrical Engineering Lab	0	0	3	1.5
8	18CMEEL1080	Constitution of India, professional ethics & human rights (Non - Credit course)	3	0	0	--
<b>Total Credits</b>						<b>19</b>

**I B. Tech II Semester Course structure for the  
Academic Year 2020-2021  
Common for ME/CE/EEE/ECT/CST**

S. No.	Subject Code	Subject title	L	T	P	C
1	18CMMAT2010	Engineering Mathematics II	3	1	0	4
2	18EEPHT2020, 18MEPHT2020, 18CEPHT2020	Engineering Physics	3	1	0	4
3	18CMCST2030	Programming for problem solving	3	0	0	3
4	18CMMEL2040	Engineering Graphics	1	0	4	3
5	18EEPHL2050, 18MEPHL2050, 18CEPHL2050	Engineering Physics Lab	0	0	3	1.5
6	18CMCSL2060	Programming for problem solving lab	0	0	4	2
7	18CMMEL2070	Work Shop/ Manufacturing practice	0	0	3	1.5
8	18CMMEL2080	Environmental Science (Non - Credit course)	3	0	0	---
<b>Total Credits</b>						<b>19</b>

**Course Structure for  
II-B.Tech. (Electronics and Communication Technology)  
Semester III (Second year)**

S.No	Course Code	Course Title	L	T	P	C	
1	18CMMAT3010	Engineering Mathematics-III	3	1	0	4	
2	18ETETT3020	Electronic Devices	3	0	0	3	
3	18ETETT3030	Network Theory	3	0	0	3	
4	18ETETT3040	Signals & Systems	3	0	0	3	
5	18ETETT3050	Probability & Stochastic Processes	3	0	0	3	
6	18ETETL3060	Electronic Devices Lab	0	0	3	1.5	
7	18ETETL3070	Network Theory Lab	0	0	3	1.5	
8	18ETETN3080	Pulse & Digital Circuits (MC)	3	0	0	0	
Total Credits							19

**Semester IV (Second year)**

S.No	Course Code	Course Title	L	T	P	C	
1	18ETETT4010	Digital System Design	3	0	0	3	
2	18CMMET4020	Engineering Mechanics	3	1	0	4	
3	18ETETT4030	Electro Magnetic Waves & Transmission Lines	3	0	0	3	
4	18ETETT4040	Analog Circuits	3	0	0	3	
5	18ETETT4050	Analog & Digital Communications	3	0	0	3	
6	18ETETL4060	Digital System Design Lab	0	0	3	1.5	
7	18ETETL4070	Analog Circuits Lab	0	0	3	1.5	
8	18ETETL4080	Analog & Digital Communications Lab	0	0	3	1.5	
Total Credits							20.5

**III B. Tech I Sem Course Structure (Electronics & Communication Technology)**

### Semester V (Third year)

S.No	Course Code	Course Title	L	T	P	C
1	18ETETT5010	Management science	3	0	0	3
2	18ETETT5020	Control Systems	3	0	0	3
3	18CMMST5030	Telecommunications and Switching Networks	3	0	0	3
4	18ETETT5040	Microprocessors and Micro Controllers	3	0	0	3
5	18ETETT5050	Digital Signal Processing	3	0	0	3
6	18ETETP5060	Professional Elective – 1*	3	0	0	3
7	18ETETL5070	Microprocessors and Micro Controllers Lab	0	0	3	1.5
8	18ETETL5080	Digital Signal Processing Lab	0	0	3	1.5
9	18CMAHS5090	Skill Oriented Course – I (Soft skills& Aptitude Builder -1 )	1	0	2	2
10	18ETETN50A0	Biology for Engineers	3	0	0	0
Total Credits						23

#### Professional Elective -I

S.No	Course Code	Course Title	L	T	P	C
1	18ETETP506A	Radiation Systems	3	0	0	3
2	18ETETP506B	Digital Design Through Verilog	3	0	0	3
3	18ETETP506C	IoT Fundamentals	3	0	0	3
4	18ETETP506D	Spread Spectrum Techniques	3	0	0	3

#### Semester VI (Third year)

S.No	Course Code	Course Title	L	T	P	C
1	18ETETT6010	Engineering Economics and Financial Management	3	0	0	3
2	18ETETT6020	VLSI Design	3	0	0	3
3	18CMMST6030	Computer Networks	3	0	0	3
4	18ETETP6040	Professional Elective – II*	3	0	0	3
5	18ETXXO605X	Open Elective – I**	3	0	0	3
6	18ETXXO606X	Open Elective – II**	3	0	0	3
7	18ETETL6070	Computer Networks Lab	0	0	3	1.5
8	18ETETL6080	VLSI Design Lab	0	0	3	1.5
9	18CMAHS6090	Skill Oriented Course – II (Soft skills & Aptitude Builder -2)	1	0	2	2
Total Credits						23

#### Professional Elective -II

S.No	Course Code	Course Title	L	T	P	C
1	18ETETP604A	Micro Wave and Optical Communications	3	0	0	3
2	18ETETP604B	Design of Fault Tolerant Systems	3	0	0	3
3	18ETETP604C	Embedded System Design	3	0	0	3
4	18ETETP604D	Digital Image and Video Processing	3	0	0	3

#### IV B. Tech I Sem Course Structure (Electronics & Communication Technology)

##### Semester VII (Fourth year)

S.No	Course Code	Course Title	L	T	P	C
1	18ETETT7010	RF System Design	3	0	0	3
2	18ETETP7020	Professional Elective – III*	3	0	0	3
3	18ETETP7030	Professional Elective – IV*	3	0	0	3
4	18ETETP7040	Professional Elective – V*	3	0	0	3
5	18ETXXO705X	Open Elective – III**	3	0	0	3
6	18ETXXO706X	Open Elective – IV**	3	0	0	3
7	18ETETL7070	RF System Design Lab	0	0	3	1.5
8	18ETETI7080	Research Internship	0	0	3	3
9	18ETETS7090	Skill Oriented Course – III ( Image Processing With Open CV)OR (Electromagnetic Simulation Tools (HFSS, CST & FEKO))	1	0	2	2
10	18ETETN70A0	Electronics Measurements & Instrumentation	3	0	0	0
<b>Total Credits</b>						24.5

##### Professional Elective -III

S.No	Course Code	Course Title	L	T	P	C
1	18ETETP702A	Radar and Satellite Communications	3	0	0	3
2	18ETETP702B	Low Power VLSI Design	3	0	0	3

3	18ETETP702C	System On Chip Architectures	3	0	0	3
4	18ETETP702D	Bio-Medical Signal Processing	3	0	0	3

**Professional Elective -IV**

S.No	Course Code	Course Title	L	T	P	C
1	18ETETP703A	Software Defined Radio	3	0	0	3
2	18ETETP703B	CPLD and FPGA Architectures & Applications	3	0	0	3
3	18ETETP703C	Wireless Technologies for IOT	3	0	0	3
4	18ETETP703D	Artificial Neural Networks	3	0	0	3

**Professional Elective -V**

S.No	Course Code	Course Title	L	T	P	C
1	18ETETP704A	Global Positioning Systems	3	0	0	3
2	18ETETP704B	CAD Tools for VLSI	3	0	0	3
3	18ETETP704C	Big Data Analytics for IoT	3	0	0	3
4	18ETETP704D	Fuzzy Logic Systems	3	0	0	3

**IV B. Tech II Sem Course Structure(Electronics and Communication Technology)**

**Semester VIII (Fourth year)**

S.No	Course Code	Course Title	L	T	P	C
1	18ETETPR8010	Project Work, Seminar & Internship in Industry	0	0	0	12
<b>Total Credits</b>						12
<b>INTERNSHIP (6 MONTHS)</b>						

**Course Structure for B.Tech. ECT**

**B. Tech (Electronics and Communication Technology)  
Open Electives**

S.No	Subject Code	Name of the subject	L	T	P	Cr
1	18ETETOXXXX	Signals and Systems	3	0	0	3
2	18ETETOXXXX	Principles of Signal Processing	3	0	0	3

3	18ETETOXXXX	Consumer Electronics	3	0	0	3
4	18ETETOXXXX	Transducers and Sensors	3	0	0	3
5	18ETETOXXXX	IOT and Applications	3	0	0	3
6	18ETETOXXXX	IC Applications	3	0	0	3
7	18ETETOXXXX	Principles of Communication Systems	3	0	0	3
8	18ETETOXXXX	Data Communications	3	0	0	3
9	18ETETOXXXX	Digital Logic design	3	0	0	3
10	18ETETOXXXX	Remote Sensing and GIS	3	0	0	3



**Head of the Department**

Head of the Dept-ECT  
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Department of Management Science

**MBA I Semester Course structure from the Academic Year 2018-2019**

S. No	Subject Code	Title of the Course	T	L	C	Internal	External	Total
1.	18MS01 T1	Principles of Management	4	-	3	40	60	100
2.	18MS01 T2	Managerial Economics	4	-	3	40	60	100
3.	18MS01 T3	Accounting For Managers	4	-	3	40	60	100
4.	18MS01 T4	Managerial Communication & Soft Skills	4	-	3	40	60	100
5.	18MS01 T5	Quantitative Analysis for Business Decisions	4	-	3	40	60	100
6.	18MS01 T6	Business Environment	4	-	3	40	60	100
7.	18CS01 L7	Information Technology Lab	-	3	3	40	60	100
8.	18MS01 C8	Case Study*	2	-	2	-	-	-
<b>Total Credits for I Semester (A)</b>					<b>23</b>	<b>280</b>	<b>420</b>	<b>700</b>

  
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Department of Management Science

**MBA II Semester Course structure from the Academic Year 2018-2019**

S. No	Subject Code	Title of the Course	T	L	C	Internal	External	Total
1.	18MS02T1	Financial Management	4	-	3	40	60	100
2.	18MS02T2	Marketing Management	4	-	3	40	60	100
3.	18MS02T3	Human Resource Management	4	-	3	40	60	100
4.	18MS02T4	Production & Operations Management	4	-	3	40	60	100
5.	18MS02T5	Research Methodology	4	-	3	40	60	100
6.	18MS02T6	Organisational Behaviour	4	-	3	40	60	100
7.	18MS02P7	Mini Project	4	-	2	-	-	50
		Seminar on Mini Project		-	2	-	-	50
8.	18MS02C8	Case Study*	2	-	2	-	-	-
<b>Total Credits for II Semester (B)</b>					<b>24</b>	<b>240</b>	<b>360</b>	<b>700</b>

Head of the Department  
Department of Management Science  
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Jubbalipuram, W.G. Dist., A.P.



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Department of Management Science

**MBA III Semester Course structure from the Academic Year 2018-2019**

S. No	Subject Code	Title of the Course	T	L	C	Internal	External	Total
1.	18MS03T1	Strategic Management	4	-	3	40	60	100
2.	18MS03T2	Legal Aspects of Business	4	-	3	40	60	100
3.	18MS03T3	Business Ethics & Corporate Governance	4	-	3	40	60	100
4.	18MS03F4/M4/H4	Elective – I	4	-	3	40	60	100
5.	18MS03F5/M5/H5	Elective – II	4	-	3	40	60	100
6.	18MS03F6/M6/H6	Elective – III	4	-	3	40	60	100
7.	18MS03F7/M7/H7	Elective – IV	4	-	3	40	60	100
8.	18MS03C8	Case Study*	2	-	2	-	-	-
<b>Total Credits for III Semester (C)</b>					<b>23</b>	<b>280</b>	<b>420</b>	<b>700</b>

The students may choose **ONE** Specialization among the following:

Subject code	Finance	Subject code	Marketing	Subject Code	HR
18MS03F4	Security Analysis & Portfolio Management	18MS03M4	Consumer Behaviour	18MS03H4	Leadership Management
18MS03F5	Banking & Insurance Management	18MS03M5	Retail Marketing	18MS03H5	Compensation and Reward Management
18MS03F6	Advanced Cost & Management Accounting	18MS03M6	Customer Relationship Management	18MS03H6	Performance Management
18MS03F7	Strategic Financial Management	18MS03M7	Strategic Marketing Management	18MS03H7	Strategic Human Resource Management



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Department of Management Science

**MBA IV Semester Course structure from the Academic Year 2018-2019**

S. No	Subject Code	Title of the Course	T	L	C	Internal	External	Total
1.	18MS04T1	Logistics & Supply Chain Management	4	-	3	40	60	100
2.	18MS04T2	Entrepreneurship Development	4	-	3	40	60	100
3.	18MS04F3/ M3/H3	Elective – V	4	-	3	40	60	100
4.	18MS04F4/ M4/H4	Elective – VI	4	-	3	40	60	100
5.	18MS04F5/ M5/H5	Elective – VII	4	-	3	40	60	100
6.	18MS04F6/ M6/H6	Elective – VIII	4	-	3	40	60	100
7.	18MS04C7	Case Study*	2	-	2	-	-	-
8.	18MS04P8	Internship/Project and Viva Voce	-	-	10	-	-	-
<b>Total Credits for IV Semester (D)</b>					<b>30</b>	<b>240</b>	<b>360</b>	<b>600</b>

The students may choose **ONE** Specialization among the following:

Subject Code	Finance	Subject Code	Marketing	Subject code	HR
18MS04F3	Financial Markets & Service	18MS04M3	Services Marketing	18MS04H3	Global HRM
18MS04F4	Global Financial Management	18MS04M4	Promotion & Distribution Management	18MS04H4	Organizational Development and Change Management
18MS04F5	Financial Risk Management	18MS04M5	Global Marketing Management	18MS04H5	Labour Welfare Legislation
18MS04F6	Tax Management	18MS04M6	Product & Brand Management	18MS04H6	Management of Industrial Relations