

K.S.R.M COLLEGE OF ENGINEERING
(AUTONOMOUS)

INDEX
NEW COURSES OFFERED
A.Y 2019-20

S.NO	PROGRAMME NAME
1	Department of Civil Engineering
2	Department of Electrical & Electronics Engineering
3	Department of Mechanical Engineering
4	Department of Electronics and Communication Engineering
5	Department of Computer Science Engineering
6	Department of Humanities and Sciences



K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Department of Civil Engineering

New courses offered under R18UG regulations, AY 2019-2020

Third Semester

Course Code	Course Title
1801305	Surveying and Geomatics
1801306	Building Materials and Construction
1801308	Surveying and Geomatics Lab
1801309	Civil Engineering Workshop

Fourth Semester

Course Code	Course Title
1801403	Engineering Geology
1801404	Fluid Mechanics
1801406	Disaster Preparedness & Planning Management


HoD

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KADAPA - 516 003. (A.P.)

Regulations for UG Program in Engineering (R18 UG)
(Effective from 2018-19 for regular students and 2019-20
for lateral entry students)

B. Tech (R18) Syllabus
Civil Engineering



Kandula Srinivasa Reddy Memorial College of
Engineering (Autonomous)

Kadapa-516005. AP

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(An ISO 9001-2008 Certified Institution)

UG Programs in Civil Engineering (R18 UG)

Curriculum

1st Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1821101	BSC	Mathematics – 1	3	1	0	30	70	4
1823102	BSC	Engineering Chemistry	3	1	0	30	70	4
1824103	HSMC	English	2	0	0	30	70	2
1805104	ESC	Programming for Problem Solving	3	0	0	30	70	3
1823107	BSC	Chemistry Lab	0	0	3	50	50	1.5
1805108	ESC	Programming for Problem Solving Lab	0	0	4	50	50	2
1824109	HSMC	English Lab	0	0	2	50	50	1
Total			11	2	9	270	430	17.5

2nd Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1821201	BSC	Mathematics – 2	3	1	0	30	70	4
1822202	BSC	Engineering Physics	3	1	0	30	70	4
1802205	ESC	Basic Electrical Engineering	3	1	0	30	70	4
1803207	ESC	Engineering Graphics and Design	1	0	4	50	50	3
1822208	BSC	Engineering Physics Lab	0	0	3	50	50	1.5
1802209	ESC	Basic Electrical Engineering Lab	0	0	2	50	50	1
1803211	ESC	Workshop and Manufacturing Practice	1	0	4	50	50	3
Total			11	3	13	290	410	20.5

3rd Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1823301	BSC	Biology for Engineers	2	0	0	30	70	2
1821302	BSC	Numerical Methods, Probability & Statistics	2	1	0	30	70	3
1803303	ESC	Basic Mechanical Engineering	2	1	0	30	70	3
1801304	PCC	Engineering Mechanics	3	1	0	30	70	4
1801305	PCC	Surveying and Geomatics	2	1	0	30	70	3
1801306	PCC	Building Materials and Construction	2	1	0	30	70	3
1801307	PCC	Computer Aided Civil Engineering Drawing Lab	0	0	4	50	50	2
1801308	PCC	Surveying and Geomatics Lab	0	0	2	50	50	1
1801309	PCC	Civil Engineering Workshop	0	0	2	50	50	1
Total			13	5	8	330	570	22

4th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1825401	OEC 1	Managerial Economics & Financial Analysis	3	0	0	30	70	3
1824402	HSMC	Effective Technical Communication	2	1	0	30	70	3
1801403	PCC	Engineering Geology	2	0	0	30	70	2

1801404	PCC	Fluid Mechanics	3	1	0	30	70	4
1801405	PCC	Solid Mechanics – 1	3	1	0	30	70	4
1801406	PCC	Disaster Preparedness & Planning Management	2	0	0	30	70	2
18994M1	MC 1	Environmental Studies	2	0	0	30	0	0
1801407	PCC	Engineering Geology Lab	0	0	2	50	50	1
1801408	PCC	Fluid Mechanics Lab	0	0	3	50	50	1.5
1801409	PCC	Solid Mechanics Lab	0	0	3	50	50	1.5
Total			17	3	8	360	570	22

5th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
18995M1	MC 2	Human Values and Professional Ethics	2	0	0	30	0	0
1801501	PCC	Solid Mechanics – 2	2	1	0	30	70	3
1801502	PCC	Hydraulic Machinery	2	0	0	30	70	2
1801503	PCC	Structural Analysis – 1	2	1	0	30	70	3
1801504	PCC	Geotechnical Engineering	2	1	0	30	70	3
1801505	PCC	Environmental Engineering	2	0	0	30	70	2
1801506	PCC	Transportation Engineering	2	0	0	30	70	2
PEC 1	PEC 1	RS & GIS	2	0	0	30	70	2
1801514	PCC	Geotechnical Engineering Lab	0	0	2	50	50	1
1801515	PCC	Transportation Engineering Lab	0	0	2	50	50	1
1801516	PCC	Environmental Engineering Lab	0	0	2	50	50	1
1801517	PROJ	Socially Relevant Project	0	0	0	100	0	2
Total			16	3	6	490	640	22

6th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1814601	ESC	Basic Electronics and Sensor Technology	2	0	0	30	70	2
1801602	PCC	Concrete Technology	2	0	0	30	70	2
1801603	PCC	Structural Analysis – 2	2	1	0	30	70	3
1801604	PCC	Design of Reinforced Concrete Structures – 1	2	1	0	30	70	3
1801605	PCC	Foundation Engineering	2	0	0	30	70	2
1801606	PCC	Water Resources Engineering – 1	2	1	0	30	70	3
PEC 2	PEC 2	Port and Harbour Engineering	2	0	0	30	70	2
1814613	ESC	Basic Electronics and Sensor Technology Lab	0	0	2	50	50	1
1801614	PCC	Concrete Technology Lab	0	0	2	50	50	1
1801615	PCC	Foundation Engineering Lab	0	0	2	50	50	1
1801616	PROJ	Internship	0	0	0	100	0	2
Total			14	3	6	460	640	22

7th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1801701	PCC	Engineering Economics, Estimation & Costing	2	0	0	30	70	2

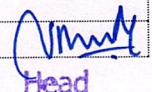
1801702	PCC	Design of Reinforced Concrete Structures – 2	2	1	0	30	70	3
1801703	PCC	Design of Steel Structures	2	0	0	30	70	2
1801704	PCC	Water Resources Engineering – 2	2	0	0	30	70	2
1801705	PCC	Sanitary Engineering & Solid Waste Management	2	0	0	30	70	2
PEC 3	PEC 3		2	0	0	30	70	2
OEC 2	OEC 2		3	0	0	30	70	3
OEC 3	OEC 3		3	0	0	30	70	3
1801715	PROJ	Project – 1 (Project work, seminar and internship in industry or at appropriate work place)	0	0	12	100	0	3
Total			18	1	12	340	560	22

8th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1899801	MC 3	Organisational Behaviour	2	0	0	30	0	0
1801802	PCC	Repairs & Rehabilitation of Structures	2	0	0	30	70	2
PEC 4	PEC 4		2	0	0	30	70	2
OEC 4	OEC 4		3	0	0	30	70	3
1801809	PROJ	Project – 2 (Continued from 7 th Semester, Project work, seminar and internship in industry or at appropriate work place)	0	0	12	50	50	5
Total			9	0	12	170	260	12

Professional Elective Courses

Subject	PEC 1	PEC 2	PEC 3	PEC 4
Structural Engineering	1. Pre-stressed Concrete	1. Advanced Concrete Structures 2. Design of Structural Systems (Tall Buildings)	1. Advanced Structural Analysis by Matrix Methods	1. Bridge Engineering 2. Finite Element Methods
Geotechnical Engineering	1. Ground Improvement Techniques 2. RS & GIS		1. Advanced Foundation Engineering 2. Soil Dynamics & Machine Foundation	1. Environmental Geo-Technology
Transportation Engineering	1. Highway Construction and Management 2. Railway Engineering	1. Airport Planning and Design 2. Port and Harbour Engineering	1. Intelligent Transportation Systems	1. Urban Transportation Planning.
Construction			1. Construction	


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Engineering & Management			Project Planning & Systems	
Environmental Engineering		1. Environmental Laws and Policy	1. Environmental Impact Assessment	
Hydraulics, Hydrology & Water Resources Engineering	1. Surface Hydrology	1. Urban Hydrology and Hydraulics	1. Integrated Watershed Management	1. Design and Drawing of Irrigation Structures

List of Professional Elective Subjects for R18 Curriculum

- 1801508 - Prestressed Concrete
- 1801509 - Ground Improvement Techniques
- 1801510 - RS & GIS
- 1801511 - Highway Construction and Management
- 1801512 - Railway Engineering
- 1801513 - Surface Hydrology
- 1801607 - Advanced Concrete Structures
- 1801608 - Design of Structural Systems (Tall Buildings)
- 1801609 - Airport Planning and Design
- 1801610 - Port and Harbour Engineering
- 1801611 - Environmental Laws and Policy
- 1801612 - Urban Hydrology and Hydraulics
- 1801706 - Advanced Structural Analysis by Matrix Methods
- 1801707 - Advanced Foundation Engineering
- 1801708 - Soil Dynamics & Machine Foundation
- 1801709 - Intelligent Transportation Systems
- 1801710 - Construction Project Planning & Systems
- 1801711 - Environmental Impact Assessment
- 1801712 - Integrated Watershed Management
- 1801803 - Bridge Engineering
- 1801804 - Finite Element Methods
- 1801805 - Environmental Geo-Technology
- 1801806 - Urban Transportation Planning
- 1801807 - Design and Drawing of Irrigation Structures

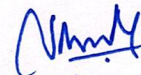
List of Open Elective Subjects for R18 Curriculum

- 180E101 - Engineering Mechanics
- 180E102 - Surveying
- 180E103 - Building Technology
- 180E104 - Estimating and Costing
- 180E105 - Water Supply Engineering
- 180E106 - Construction Practice and Management
- 180E107 - Disaster Preparedness
- 180E108 - Rehabilitation of Structures


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List of Honours Subjects for R18 Curriculum

- 1892101 - Highway Construction and Management
- 1892102 - Railway Engineering
- 1892103 - Ground Improvement Techniques
- 1892104 - Airport Planning and Design
- 1892105 - Advanced Foundation Engineering
- 1892106 - Soil Dynamics & Machine Foundation
- 1892107 - Construction Project Planning & Systems
- 1892108 - Environmental Geo-Technology Construction Practice and Management



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Department of Civil Engineering

New courses offered under R18PG regulations, AY 2019-2020

Third Semester

Course Code	Course Title
1851301	Stability Analysis of Slopes
1851302	Foundation on Weak Rocks
1851304	Business Analytics
1851305	Industrial Safety
1851306	Operations Research
1851307	Cost Management of Engineering Projects
1851308	Composite Materials
1851309	Waste to Energy

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Regulations for PG Program in Engineering (R18PG)

(Effective from 2018-19)

M. Tech (R18) Syllabus

Geotechnical Engineering



**Kandula Srinivasa Reddy Memorial College of
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Kadapa-516005. AP

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Annexure-1 Curriculum
For M. Tech (Geo-Technical Engineering)


First Semester

S. No.	Core code	Core/ Elective	Course Name	L	T	P	IM	EM	CR
1	1851101	Core 1	Advanced Soil Mechanics	3	0	0	40	60	3
2	1851102	Core 2	Advanced Foundation Engineering	3	0	0	40	60	3
3	1851103 1851104 1851105	PE 1	1. Soil Structure Interaction 2. Ground Improvement Techniques 3. Pavement Analysis and Design	3	0	0	40	60	3
4	1851106 1851107 1851108	PE 2	1. FEM in Geo-Mechanics 2. Environmental Geo-Technology 3. Critical Soil Mechanics	3	0	0	40	60	3
5	1851109	MLC	Research Methodology & IPR	2	0	0	40	60	2
6	Audit Course		Audit Course-I	2	0	0	40	0	0
7	1851110	Lab 1	Soil Mechanics – 1 Laboratory	0	0	4	50	50	2
8	1851111	Lab 2	Soil Mechanics – 2 Laboratory	0	0	4	50	50	2
Total				16	0	8	340	400	18

Second Semester

S. No.	Core code	Core/ Elective	Course Name	L	T	P	IM	EM	CR
1	1851201	Core 3	Dynamics of Soil and Foundations	3	0	0	40	60	3
2	1851202	Core 4	Subsurface Investigations and Instrumentation	3	0	0	40	60	3
3	1851203 1851204 1851205	PE 3	1. Offshore Geo-Technical Engineering 2. Computational Geo-Mechanics 3. Engineering Rock Mechanics	3	0	0	40	60	3
4	1851206 1851207 1851208	PE 4	1. Earth Retaining Structures 2. Design of Underground Excavations 3. Physical and Constitutive Modeling on Geo-Mechanics	3	0	0	40	60	3
5	1851209	Project	Mini-Project	0	0	4	100	00	2
6	Audit Course		Audit Course-II	2	0	0	40	00	0
7	1851210	Lab 3	Sub Soil Exploration Laboratory	0	0	4	50	50	2
8	1851211	Lab 4	Geo-Technical Engineering Modeling Laboratory	0	0	4	50	50	2
Total				14	0	12	400	340	18

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Third Semester

S. No.	Core code	Core/ Elective	Course Name	L	T	P	IM	EM	CR
1	1851301 1851302 1851303	PE 5	1. Stability Analysis of Slopes 2. Foundation on Weak Rocks 3. Geo-Technical Earthquake Engineering	3	0	0	40	60	3
2	OE		Open Elective Courses	3	0	0	40	60	3
3	1851310	Major Project	Dissertation Stage – 1 (to be continued next semester)	0	0	20	100	00	10
Total				6	0	20	180	120	16

Fourth Semester

S. No.	Core code	Core/ Elective	Course Name	L	T	P	IM	EM	CR
1	1851401	Major Project	Dissertation Final Stage (continued from 3 rd semester)	0	0	32	50	50	16
Total				0	0	32	50	50	16

List of Audit Courses offered:

Course Codes	Course Name
1870A01	English for Research Paper Writing
1870A02	Disaster Management
1870A03	Sanskrit for Technical Knowledge
1870A04	Value Education
1870A05	Constitution of India
1870A06	Pedagogy Studies
1870A07	Stress Management by Yoga
1870A08	Personality Development through Life Enlightenment Skills

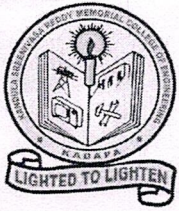
List of Open Elective Courses offered:

Course Codes	Course Name
1871304	Business Analytics
1871305	Industrial Safety
1871306	Operations Research
1871307	Cost Management of Engineering Projects
1871308	Composite Materials
1871309	Waste to Energy



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Department of Electrical & Electronics Engineering

New Courses Offered under R18UG

Academic Year 2019-2020

III Semester

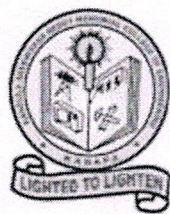
S.NO	Subject Code	Name of the subject
1.	1823301	Biology for Engineers
2.	1824309	Soft Skills Lab

IV Semester

S.NO	Subject Code	Name of the subject
1.	1805409	Python Programming Lab
2.	18994M1	Environmental Science

Amritha
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**ACADEMIC REGULATIONS
COURSE STRUCTURE
AND
DETAILED SYLLABI
OF
ELECTRICAL AND ELECTRONICS ENGINEERING
FOR
B.TECH REGULAR FOUR YEAR DEGREE PROGRAM
(For the batches admitted from 2018-2019)
&
FOR B.TECH LATERAL ENTRY PROGRAM
(For the batches admitted from 2019-2020)**



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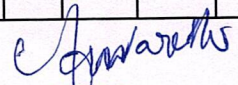
Detailed Course Structure & Syllabus

B. Tech - I Semester (Theory - 4, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1821101	Mathematics-I	BSC	3	1	0	30	70	4
2	1823102	Engineering Chemistry	BSC	3	1	0	30	70	4
3	1824103	English	HSMC	2	0	0	30	70	2
4	1805104	Programming for Problem Solving	ESC	3	0	0	30	70	3
5	1823107	Chemistry Lab	BSC	0	0	3	50	50	1.5
6	1805108	Programming for Problem Solving Lab	ESC	0	0	4	50	50	2
7	1824109	English Lab	HSMC	0	0	2	50	50	1
Total				11	02	09	270	430	17.5

B. Tech - II Semester (Theory - 4, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1821201	Mathematics-II	BSC	3	1	0	30	70	4
2	1822203	Engineering Physics	BSC	3	1	0	30	70	4
3	1802206	Basic Electrical Engineering	ESC	3	1	0	30	70	4
4	1803207	Engineering Graphics & Design	ESC	1	0	4	50	50	3
5	1822208	Engineering Physics Lab	BSC	0	0	3	50	50	1.5
6	1802210	Basic Electrical Engineering Lab	ESC	0	0	2	50	50	1
7	1803211	Workshop on Manufacturing Practices	ESC	1	0	4	50	50	3
Total				11	03	13	290	410	20.5

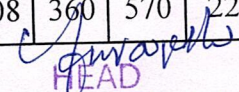

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B. Tech – III Semester (Theory - 6, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1823301	Biology for Engineers	BSC	2	0	0	30	70	2
2	1814302	Electronics Devices & Circuits	PCC	3	0	0	30	70	3
3	1802303	Electrical Circuit Analysis	PCC	3	1	0	30	70	4
4	1802304	Electromagnetic Fields	PCC	3	0	0	30	70	3
5	1802305	Electrical Machines - I	PCC	3	1	0	30	70	4
6	1802306	Power Systems - I	PCC	3	0	0	30	70	3
7	1802307	Electrical Circuit Analysis Lab	PCC	0	0	2	50	50	1
8	1814308	Electronics Devices & Circuits Lab	PCC	0	0	2	50	50	1
9	1824309	Soft Skills Lab	HSMC	0	0	2	50	50	1
Total				17	02	06	330	570	22

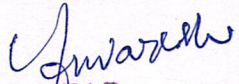
B. Tech – IV Semester (Theory - 6, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1821401	Mathematics - III	BSC	3	0	0	30	70	3
2	1814402	Digital System Design	PCC	3	0	0	30	70	3
3	1802403	Electrical Measurements	PCC	3	0	0	30	70	3
4	1802404	Control Systems	PCC	3	0	0	30	70	3
5	1802405	Electrical Machines - II	PCC	3	0	0	30	70	3
6	1802406	Power Systems - II	PCC	3	0	0	30	70	3
7	1802407	Electrical Measurements Lab	PCC	0	0	2	50	50	1
8	1802408	Electrical Machines - I Lab	PCC	0	0	2	50	50	1
9	1805409	Python Programming Lab	ESC	0	0	4	50	50	2
10	18994M1	Environmental Science	MC	2	0	0	30	00	0
Total				20	00	08	360	570	22


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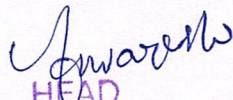
B. Tech – V Semester (Theory - 5, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1804501	Microprocessors & Microcontrollers	PCC	3	0	0	30	70	3
2	1814502	Linear Digital IC Applications	PCC	3	0	0	30	70	3
3	1802503	Power Electronics	PCC	3	0	0	30	70	3
4	1802504	Power System Operation & Control	PCC	3	0	0	30	70	3
5		Professional Elective-I (PE-I)							
	1802505	Energy Auditing & Demand Side Management	PEC	3	0	0	30	70	3
	1802506	Electrical Machine Design	PEC	3	0	0	30	70	3
	1802507	Advanced Control Systems	PEC	3	0	0	30	70	3
	1802508	Instrumentation	PEC	3	0	0	30	70	3
	1802509	Energy Conversion Systems	PEC	3	0	0	30	70	3
6	1802510	Electrical Machines - II Lab	PCC	0	0	3	50	50	1.5
7	1802511	Control Systems & Simulation Lab	PCC	0	0	3	50	50	1.5
8	1824514	Advanced English Communication Lab	HS MC	0	0	4	50	50	2
10	1802513	Socially Relevant Projects (60 hrs/Semester)	PROJ	-	-	-	100	-	2
Total				15	01	08	400	500	22


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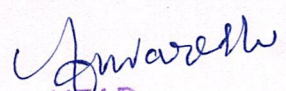
B. Tech – VI Semester (Theory - 5, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1824601	Management Science	HSMC	3	0	0	30	70	3
2	1802602	Power Semiconductor Drives	PCC	3	0	0	30	70	3
3	1802603	Switchgear & Protection	PCC	3	0	0	30	70	3
4		Professional Elective -II (PE -II)							
	1802604	Power System Deregulation	PEC	3	0	0	30	70	3
	1802605	High Voltage DC Transmission	PEC	3	0	0	30	70	3
	1802606	PLC & its Applications	PEC	3	0	0	30	70	3
	1802607	Signals & Systems	PEC	3	0	0	30	70	3
	1802608	Electric & Hybrid Vehicles	PEC	3	0	0	30	70	3
5	--	Open Elective - I (OE-I)	OEC	3	0	0	30	70	3
6	1802609	Power Electronics & Simulation Lab	PCC	0	0	3	50	50	1.5
7	1802610	Power Systems - I Lab	PCC	0	0	3	50	50	1.5
8	1802611	Internet of Things Lab	PCC	0	0	4	50	50	2
9	1802612	Internship	PROJ	0	0	0	100	00	2
10	18996M2	Constitution of India	MC	2	0	0	30	--	--
Total				17	00	10	430	500	22


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 Electronics Engineering
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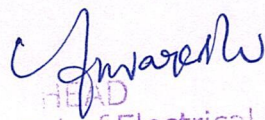
B. Tech – VII Semester (Theory - 5, Lab - 3, Project - I Stage)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1825701	Project Management	HSMC	3	0	0	30	70	3
2	1802702	Utilization of Electrical Power	PCC	3	0	0	30	70	3
3	Professional Elective -III (PE - III)								
	1802703	Flexible AC Transmission System	PEC	3	0	0	30	70	3
	1802704	Power Quality	PEC	3	0	0	30	70	3
	1802705	Digital Control Systems	PEC	3	0	0	30	70	3
	1802706	Digital Signal Processing	PEC	3	0	0	30	70	3
	1802707	Smart Grid	PEC	3	0	0	30	70	3
4	--	Open Elective - II (OE-II)	PEC	3	0	0	30	70	3
5	--	Open Elective - III (OE-III)	PEC	3	0	0	30	70	3
6	1802708	Labview Programming	ESC	0	0	3	50	50	1.5
7	1802709	Power Systems -II Lab	PCC	0	0	3	50	50	1.5
8	1824710	Effective Technical Communication Skills Lab	HSMC	0	0	2	50	50	1
8	1802711	Project Stage - I	PROJ	0	0	6	100	00	3
9	18997M3	Universal Human Values	MC	2	0	0	30	00	0
Total				19	00	14	380	450	22


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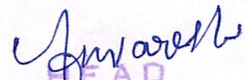
B. Tech – VIII Semester (Theory - 2, Project - II Stage)

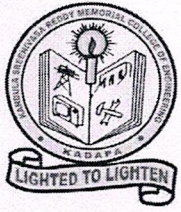
S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1		Professional Elective - IV (PE-IV)							
	1802801	Electrical Distribution Systems	PEC	3	0	0	30	70	3
	1802802	Power System Reliability	PEC	3	0	0	30	70	3
	1802803	Industrial Automation & Control	PEC	3	0	0	30	70	3
	1802804	SCADA & its Application	PEC	3	0	0	30	70	3
	1802805	Distributed Generation & Micro Grid	PEC	3	0	0	30	70	3
2	--	Open Elective -IV (OE-IV)	OEC	3	0	0	30	70	3
3	1802806	Technical Seminar	PROJ	2	0	0	100	00	1
4	1802807	Project Stage - II	PROJ	0	0	10	50	50	5
Total				08	0	10	210	190	12


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Department of Electrical & Electronics Engineering
List of Open Electives Offering to Other Branches (R18UG)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
		Open Elective Course - I (OEC-I)							
1	18OE201	Fundamentals of Control Systems	OEC	3	0	0	30	70	3
2	18OE202	MATLAB Programming	OEC	3	0	0	30	70	3
		Open Elective Course – II (OEC-II)							
3	18OE203	Energy Conversion Systems	OEC	3	0	0	30	70	3
4	18OE204	Internet of Things	OEC	3	0	0	30	70	3
		Open Elective Course - III (OEC-III)							
5	18OE205	Intelligent Control Techniques	OEC	3	0	0	30	70	3
6	18OE206	Electrical System Estimation & Costing	OEC	3	0	0	30	70	3
		Open Elective Course - IV (OEC-IV)							
7	18OE207	Basics of Power Electronics	OEC	3	0	0	30	70	3
8	18OE208	System Reliability Concepts	OEC	3	0	0	30	70	3


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Department of Electrical & Electronics Engineering

New Courses Offered under R18PG

Academic Year 2019-2020

III Semester

S.NO	Course Code	Course Name
1	1852301	Power System Transients
2	1852302	Industrial Load Modeling and Control
3	1852303	Dynamics Of Linear Systems
4	1871304	Business Analytic
5	1871305	Industrial Safety
6	1871306	Operations Research
7	1871307	Cost Management of Engineering Projects
8	1871308	Composite Materials
9	1871309	Waste to Energy

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ACADEMIC REGULATIONS

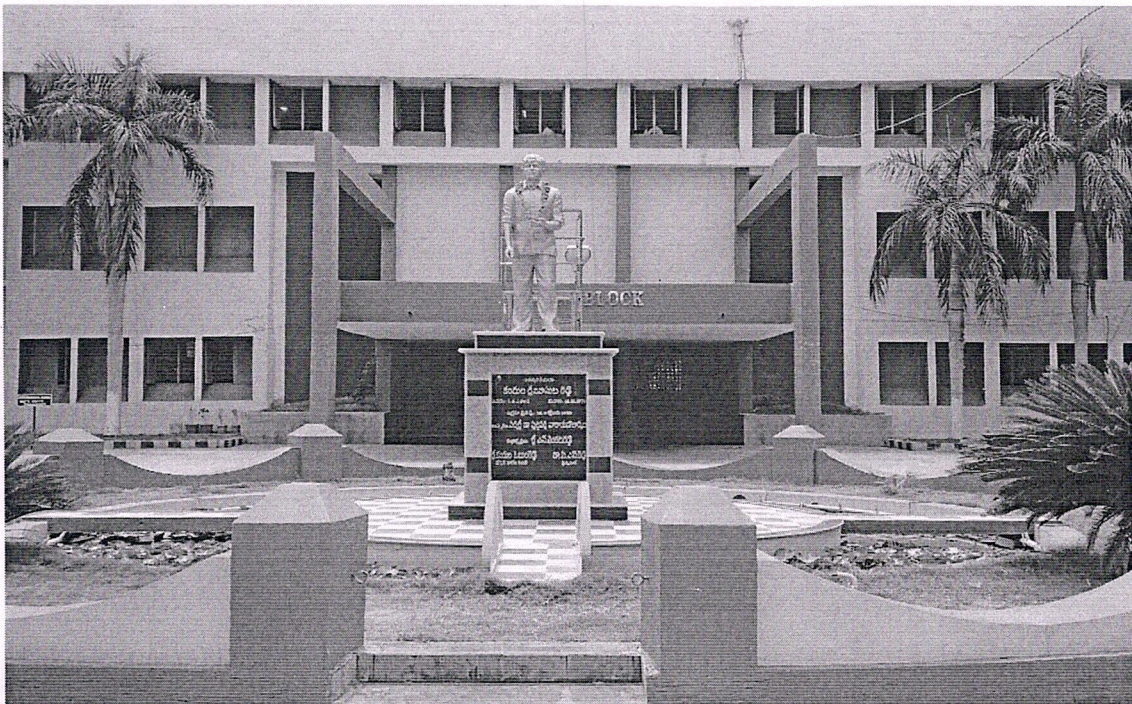
Course Structure & Detailed Syllabus
of

POWER SYSTEMS

for

M.Tech. Regular Two Year Degree Program

(For the batches admitted from 2018-2019)



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K. S. R. M. COLLEGE OF ENGINEERING - KADAPA (AUTONOMOUS)

Course Structure and Syllabus for M. Tech. Power Systems (PS) w.e.f. 2018 -19

I-SEMESTER

S. No.	C /PE/A	Course Code	Course Name	L	T	P	IM	EM	CR
1	C 1	1852101	Power System Analysis	3	0	0	40	60	3
2	C 2	1852102	Power System Dynamics - I	3	0	0	40	60	3
3	PE1	1852103	Renewable Energy System	3	0	0	40	60	3
		1852104	Smart grids	3	0	0	40	60	3
		1852105	Wind and Solar Systems	3	0	0	40	60	3
4	PE 2	1852106	Electrical Power Distribution System	3	0	0	40	60	3
		1852107	Mathematical Methods for Power Engineering	3	0	0	40	60	3
		1852108	Electric and Hybrid Vehicles	3	0	0	40	60	3
5	---	1800109	Research Methodology and IPR	2	0	0	40	60	2
6	Lab 1	1852110	Power System Lab - I	0	0	3	50	50	2
7	Lab 2	1852111	Power System Simulation Lab-I	0	0	3	50	50	2
8	A 1	---	Audit Course I						
Total				14	0	8	300	400	18

* C - Core

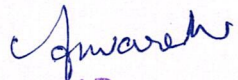
* PE - Professional Elective

* A - Audit Course

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II SEMESTER

S. No.	C/PE/A	Course Code	Course Name	L	T	P	IM	EM	CR
1	C 3	1852201	Digital Protection of Power System	3	0	0	40	60	3
2	C 4	1852202	Power System Dynamics - II	3	0	0	40	60	3
3	PE 3	1852203	Restructured Power Systems	3	0	0	40	60	3
		1852204	Energy Auditing and Management	3	0	0	40	60	3
		1852205	Power Apparatus Design	3	0	0	40	60	3
4	PE 4	1852206	SCADA System and Applications	3	0	0	40	60	3
		1852207	Power Quality	3	0	0	40	60	3
		1852208	AI Techniques	3	0	0	40	60	3
5	C 5	1852209	Mini Project with Seminar	0	0	4	100	-	2
6	Lab 3	1852210	Power System Lab -II	0	0	4	50	50	2
7	Lab 4	1852211	Power Systems Simulation Lab -II	0	0	4	50	50	2
8	A II	--	Audit Course II						
			Total	12	0	12	360	340	18


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III SEMESTER

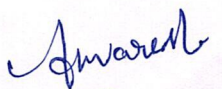
S. No.	C /PE/A	Course Code	Course Name	L	T	P	IM	EM	CR
1	PE 5	1852301	Power System Transients	3	0	0	40	60	3
		1852302	Industrial Load Modeling and Control	3	0	0	40	60	3
		1852303	Dynamics Of Linear Systems	3	0	0	40	60	3
2	OE	1871304	Business Analytics	3	0	0	40	60	3
		1871305	Industrial Safety	3	0	0	40	60	3
		1871306	Operations Research	3	0	0	40	60	3
		1871307	Cost Management of Engineering Projects	3	0	0	40	60	3
		1871308	Composite Materials	3	0	0	40	60	3
		1871309	Waste to Energy	3	0	0	40	60	3
3	Major Project	1852310	Phase - I Dissertation	0	0	20	100	-	10
			Total	6	0	20	180	120	16

IV SEMESTER

S. No.	Course	Course Code	Course Name	L	T	P	IM	EM	CR
1	Major Project	1852401	Phase - II Dissertation	0	0	32	50	50	16
			Total	0	0	32	50	50	16

Audit course I & II

S. No.	Course Code	Course Name
1	1870A01	English for Research Paper Writing
2	1870A02	Disaster Management
3	1870A03	Sanskrit for Technical Knowledge
4	1870A04	Value Education
5	1870A05	Constitution of India
6	1870A06	Pedagogy Studies
7	1870A07	Stress Management by Yoga
8	1870A08	Personality Development through Life Enlightenment Skills


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DEPARTMENT OF MECHANICAL ENGINEERING

New Courses Offered Under R18UG Regulations, A.Y 2019-2020

THIRD SEMESTER

Course Code	Course Title
1803303	Engineering Mechanics
1803304	Manufacturing Process
1803305	Strength of materials
1803306	Material science and engineering

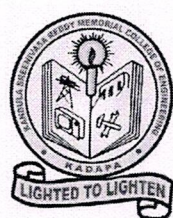
FOURTH SEMESTER

Course Code	Course Title
1803401	Applied Thermo Dynamics
1803402	Fluid Mechanics & Fluid Machinery
1803405	Instrumentation and control systems
1803406	Computer Aided Machine Drawing
1803407	Basic Electronics & MOF Lab
1803408	Seminar/Industrial Training

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**Regulations for
UG Programs in Engineering (R18UG)
(Effective from 2018-19 for Regular students and from 2019-20 for Later Entry
students) incorporating Amendments as on 15.06.2019**



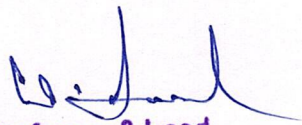
**Kandula Srinivasa Reddy Memorial College of Engineering
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K.S.R.M.COLLEGE OF ENGINEERING,KADAPA.
DEPARTMENT OF MECHANICAL ENGINEERING
I SEM R-18(Mechanical)

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1821101	BSC	Mathematics - I	3	1	0	30	70	4
1823102	BSC	Engineering Chemistry	3	1	0	30	70	4
1824103	HSMC	English	2	0	0	30	70	2
1805104	ESC	Programming for Problem Solving	3	0	0	30	70	3
1823107	BSC	Chemistry Lab	0	0	3	50	50	1.5
1805108	ESC	Programming for Problem Solving Lab	0	0	4	50	50	2
1824109	HSMC	English Lab	0	0	2	50	50	1
		Total	11	2	9	270	430	17.5

Second Semester (mechanical)

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1821201	BSC	Mathematics - II	3	1	0	30	70	4
1822204	BSC	Engineering Physics	3	1	0	30	70	4
1802205	ESC	Basic Electrical Engineering	3	1	0	30	70	4
1803207	ESC	Engineering Graphics & Design	1	0	4	50	50	3
1822208	BSC	Engineering Physics Lab	0	0	3	50	50	1.5
1802209	ESC	Basic Electrical Engineering Lab	0	0	2	50	50	1
1803211	ESC	Workshop and Manufacturing Practices	1	0	4	50	50	3
		Total	11	3	13	290	410	20.5

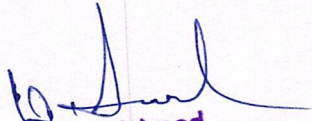

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III Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1823301	BSC	Biology for Engineers	3	0	0	30	70	3
1821302	BSC	Numerical methods, probability and statics	2	0	0	30	70	2
1801303	ESC	Engineering Mechanics	3	0	0	30	70	3
1803304	PCC	Manufacturing Process	3	0	0	30	70	3
1803305	PCC	Strength of materials	3	0	0	30	70	3
1803306	PCC	Material science and engineering	3	0	0	30	70	3
1803307	PCC	Thermodynamics	3	0	0	30	70	3
1803308	PCC	Material science, Mechanics of solids Lab	0	0	3	50	50	1
1803309	PCC	Manufacturing technology Lab	0	0	3	50	50	1
TOTAL			20	0	6	310	590	22

IV Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1803401	PCC	Applied Thermodynamics	3	0	0	30	70	3
1803402	PCC	Fluid Mechanics & Fluid Machinery	3	0	0	30	70	3
1803403	PCC	Kinematics of Machinery	3	0	0	30	70	3
1814404	ESC	Basic Electronic Engineering	3	1	0	30	70	4
1803405	PCC	Instrumentation and control systems	3	0	0	30	70	3
1803406	PCC	Computer Aided Machine Drawing	1	0	2	50	50	2
1803407	ESC	Basic Electronics & MOF Lab	0	0	3	50	50	1.5
18994M1	MC-I	Environmental Science	2	0	0	30	0	0
1803408	PCC	Seminar/Industrial Training	0	0	1	100	0	1
1824409	HMSC	Advanced English Communication Lab	0	0	3	50	50	1.5
TOTAL			18	1	9	430	500	22

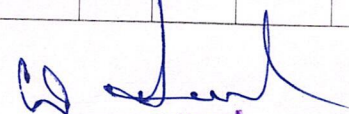

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V semester

S.No	Subject code	Subject	Subject Category	L	T	P	IM	EM	Credits
1.	1503501	Heat Transfer	PJ	3	1	0	30	70	3
2	1503502	Design of Machine Elements-I	PJ	3	1	0	30	70	3
3	1503503	Machine tools	PJ	3	1	0	30	70	3
4.	1503504	Dynamics of Machinery- I	PJ	3	1	0	30	70	3
5	1503505	Thermal Engineering II	PJ	3	1	0	30	70	3
6 Elective	1503506	Hydraulic Machinery	PJ	3	1	0	30	70	3
	1503507	Industrial Management							
	1503508	Entrepreneurship							
7	1503509	Thermal Engineering Lab	PJ	0	0	3	50	50	2
8	1524510	Advanced English Communication Skills Lab	HU	0	0	3	50	50	2
		Total		18	06	06	280	520	22

VI semester

S.No	Subject code	Subject	Subject Category	L	T	P	IM	EM	Credits
1.	1525601	Managerial Economics and Financial Analysis	HU	3	1	0	30	70	3
2	1503602	Design of Machine Elements-II	PJ	3	1	0	30	70	3
3.	1503603	Operations Research	PJ	3	1	0	30	70	3
4	1503604	Dynamics of Machinery-II	PJ	3	1	0	30	70	3
5	1503605	Refrigeration and Air-Conditioning	PJ	3	1	0	30	70	3
6 Elective II	1503606	Automobile Engineering	PJ	3	1	0	30	70	3
	1503607	IC Engines							
	1503608	Power plant Engineering							
7	1503609	Metrology & Machine Tools Lab	PJ	0	0	3	50	50	2
8	1503610	Heat Transfer and Dynamics Lab	PJ	0	0	3	50	50	2
		Total		18	06	06	280	520	22


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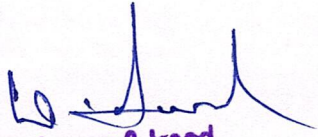
VII semester

S.No	Subject code	Subject	Subject Category	L	T	P	IM	EM	Credits
1.	1503701	CAD/CAM	PJ	3	1	0	30	70	3
2.	1503702	Metrology	PJ	3	1	0	30	70	3
3	1503703	Finite Element Methods	PJ	3	1	0	30	70	3
4	1503704	Instrumentation and Control Systems	PJ	3	1	0	30	70	3
5 Elective III	1503705	Production & Operations Management	PJ	3	1	0	30	70	3
	1503706	Computational Fluid Dynamics							
	1503707	Mechatronics							
6 Elective	1503708	Modern Manufacturing Methods	PJ	3	1	0	30	70	3
	1503709	Tool Design							
	1503710	Rapid prototyping							
7	1503711	Instrumentation and Control Systems Lab	PJ	0	0	3	50	50	2
8	1503712	CAD/CAM Lab	PJ	0	0	3	50	50	2
		Total		18	06	06	280	520	22


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VIII Semester

S.No	Subject code	Subject	Subject Category	L	T	P	IM	EM	Credits
1.	1503801	Automation & Robotics	PJ	3	1	0	30	70	3
2.	1503802	Renewable energy sources	PJ	3	1	0	30	70	3
3	1503803	Gas Turbines and Jet Propulsion	PJ	3	1	0	30	70	3
4 Elective V	1503804	Geometric Modeling	PJ	3	1	0	30	70	3
	1503805	Reliability in Engineering Systems							
	1503806	Industrial Safety and Management							
5	1503807	Seminar	PJ				100		3
6	1503808	Project Work	PJ				50	50	10
		Total		12	04	00	270	330	25


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Department of Mechanical Engineering

New courses Offered under R18PG

(AY 2019--2020)

Program: M. Tech.

Specialization: CAD/CAM

Third Semester

Sl. No.	Course code	Course Title
1	1853303	Advanced Tool Design
2	1871304	Business Analytics
3	1871305	Industrial Safety
4	1871307	Cost Management of Engineering Projects
5	1871308	Composite Materials
6	1871309	Waste to energy
7	1853310	Dissertation Phase-I

Fourth Semester

Sl. No.	Course code	Course Title
1	1853401	Dissertation Phase-II

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**ACADEMIC REGULATIONS (R18)
COURSE STRUCTURE AND DETAILED SYLLABUS**

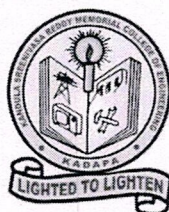
Department of Mechanical Engineering

**MASTER OF TECHNOLOGY
IN
CAD/CAM**

For

M.Tech.- Regular Two Year Post Graduate Degree Programme

(Applicable for the batches admitted from 2022-23)



**KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF
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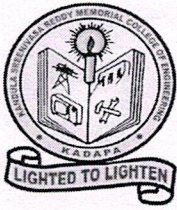
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Website: www.ksrmce.ac.in

M.Tech. (CAD/CAM)-R18 Course Structure

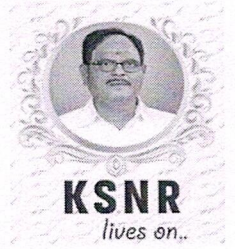


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Annexure – 1 Curriculum CAD/CAM (Mechanical Engineering)

M.Tech I Semester

S. No.	Course Codes	Course Name	Category	L	T	P	IM	EM	Credits
1	1853101	Geometric Modeling	PCC	3	0	0	40	60	3
2	1853102	Computer Integrated Manufacturing	PCC	3	0	0	40	60	3
3	Program Elective Course – I		PEC	3	0	0	40	60	3
	1853103	Computer Aided Process Planning							
	1853104	Concurrent Engineering							
	1853105	Quality Engineering & Manufacturing							
4	Program Elective Course – II		PEC	3	0	0	40	60	3
	1853106	Advanced optimization techniques							
	1853107	Design For Manufacturing							
	1853108	Mechatronics							
5	1800109	Research Methodology & IPR	PCC	2	0	0	40	60	2
6	1853110	Computer graphics Lab	PCC	0	0	4	50	50	2
7	1853111	CAD Lab	-	0	0	4	50	50	2
8	Audit Course – I		Audit	2	0	0	40	0	0
				16	0	8	340	400	18

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M.Tech II Semester

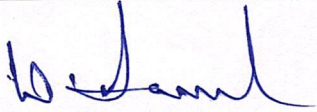
S. No.	Course Codes	Course Name	Category	L	T	P	IM	EM	Credits
1	1853201	Finite Element Methods	PCC	3	0	0	40	60	3
2	1853202	Robotics	PCC	3	0	0	40	60	3
3	Program Elective Course – III		PEC	3	0	0	40	60	3
	1853203	Advances in Manufacturing Technology							
	1853204	Artificial Intelligence & Expert Systems							
	1853205	Advances Stress Analysis							
4	Program Elective Course – IV		PEC	3	0	0	40	60	3
	1853206	Flexible Manufacturing Systems							
	1853207	Computer Graphics							
	1853208	CNC Technology and Programming							
5	1853209	Mini-project with seminar	PCC	0	0	4	100		2
6	1853210	CAE Lab	PCC	0	0	4	50	50	2
7	1853211	CAM Lab	-	0	0	4	50	50	2
8	Audit Course – II		Audit	2	0	0	40		0
				14	0	12	400	340	18

M.Tech III Semester

S. No.	Course Codes	Course Name	Category	L	T	P	IM	EM	Credits
1	Program Elective Course – V		PEC	3	0	0	40	60	3
	1853301	Rapid Prototyping							
	1853302	Automation in Manufacturing							
	1853303	Advanced Tool Design							
2	Open Elective		OEC	3	0	0	40	60	3
3	1853310	Dissertation Phase – 1	Project	0	0	20	100	0	10
				6	0	20	180	120	18

M.Tech IV Semester

S. No.	Course Codes	Course Name	Category	L	T	P	IM	EM	Credits
1	1853401	Dissertation Phase – 2	Project	0	0	32	50	50	16
				0	0	32	50	50	16

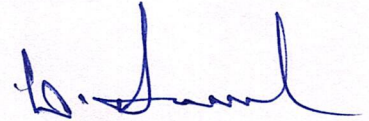

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Audit Courses

S.No	Course Codes	Course Name
1	1870A01	English for Research Paper Writing
2	1870A02	Disaster Management
3	1870A03	Sanskrit for Technical Knowledge
4	1870A04	Value Education
5	1870A05	Constitution of India
6	1870A06	Pedagogy Studies
7	1870A07	Stress Management by Yoga
8	1870A08	Personality Development through Life Enlightenment Skills

Open Elective Courses

S.No	Course Codes	Course Name
1	1871304	Business Analytics
2	1871305	Industrial Safety
3	1871306	Operations Research
4	1871307	Cost Management of Engineering Projects
5	1871308	Composite Materials
6	1871309	Waste to Energy



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Department of Electronics and Communication Engineering

New courses offered under R18UG regulations, AY 2019-2020

Third Semester

Course Code	Course Title
1821303	Electronic Devices and Circuits
1821306	Network Theory
1821307	Python Programming
1821308	Electronic Devices and Circuits Lab

Fourth Semester

Course Code	Course Title
1804403	Analog and Digital Circuits
1804406	Electromagnetic Theory and Transmission lines
1804407	LABVIEW Programming Lab
1804408	Analog and Digital Circuits Lab

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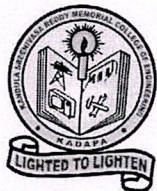
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Regulations for UG Program in Engineering (R18 UG)

(Effective from 2018-19 for regular students and 2019-20 for lateral entry students)

B. Tech (R18) Syllabus Electronics and Communication Engineering



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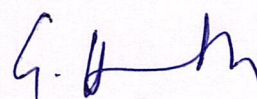
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(An ISO 9001-2008 Certified Institution)**

I Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1821101	Mathematics - I	BSC	3	1	0	30	70	4
2	1822102	Engineering Physics	BSC	3	1	0	30	70	4
3	1802103	Basic Electrical Engineering	ESC	3	1	0	30	70	4
4	1803107	Engineering Graphics & Design	ESC	1	0	4	50	50	3
5	1822108	Engineering Physics Lab	BSC	0	0	3	50	50	1.5
6	1802109	Basic Electrical Engineering Lab	ESC	0	0	2	50	50	1
7	1803110	Workshop and Manufacturing Practices	ESC	1	0	4	50	50	3
		Total:							20.5

II Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1821201	Mathematics - II	BSC	3	1	0	30	70	4
2	1823202	Engineering Chemistry	BSC	3	1	0	30	70	4
3	1824203	English	HSMC	2	0	0	30	70	2
4	1805204	Programming for Problem Solving	ESC	3	0	0	50	50	3
5	1823207	Chemistry Lab	BSC	0	0	3	50	50	1.5
6	1805208	Programming for Problem Solving Lab	ESC	0	0	4	50	50	2
7	1824209	English Lab	HSMC	0	0	2	50	50	1
		Total:							17.5



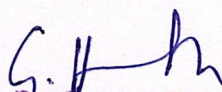
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III Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1821301	Mathematics – III	BSC	3	1	0	30	70	4
2	1825307	Managerial Economics and Financial Analysis	HSMC	3	0	0	30	70	3
3	1804303	Electronic Devices and Circuits	EC	3	0	0	30	70	3
4	1804304	Digital System Design	EC	3	0	0	30	70	3
5	1804305	Signals And Systems	EC	3	0	0	30	70	3
6	1804306	Network Theory	EC	3	0	0	30	70	3
7	1805307	Python Programming	ESC	0	0	3	50	50	1.5
8	1804308	Electronic Devices and Circuits Lab	EC	0	0	3	50	50	1.5
9	18993M1	Environmental Science	MC	2	0	0	30		0
		Total:							22

IV Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1823401	Biology for Engineers	BSC	2	0	0	30	70	2
2	1804402	Probability Theory and Stochastic Processes	EC	3	0	0	30	70	3
3	1804403	Analog and Digital Circuits	EC	3	0	0	30	70	3
4	1804404	Control Systems	EC	3	0	0	30	70	3
5	1804405	Linear IC Applications	EC	3	0	0	30	70	3
6	1804406	Electromagnetic Theory and Transmission lines	EC	3	0	0	30	70	3
7	1804407	LABVIEW Programming Lab	ESC	0	0	3	50	50	1.5
8	1804408	Analog and Digital Circuits Lab	EC	0	0	3	50	50	1.5
9	1824410	Advanced English Communication Skills lab	HS	0	0	4	50	50	2
		Total:							22

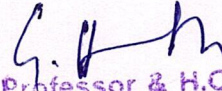

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V Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1804501	Microprocessors & Microcontrollers	EC	3	0	0	30	70	3
2	1804502	Digital Signal Processing	EC	3	0	0	30	70	3
3	1804503	Computer Organization	EC	2	0	0	30	70	2
4	1804504	Analog Communication	EC	3	0	0	30	70	3
5	1804505	Digital IC Applications	EC	3	0	0	30	70	3
6	1804506	Antennas and Wave Propagation	EC	3	0	0	30	70	3
7	1804507	Microprocessors & Microcontrollers Lab	EC	0	0	3	50	50	1.5
8	1804508	Analog and Digital IC Lab	EC	0	0	3	50	50	1.5
9	1804509	Socially Relevant Project	PR			4	100		2
		Total:							22

VI Semester

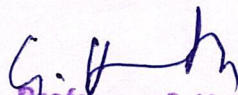
S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1804601	Embedded Systems	EC	3	0	0	30	70	3
2	1804602	Digital Communication	EC	3	0	0	30	70	3
3	1804603	Microwave Engineering	EC	3	0	0	30	70	3
		Professional Elective I							
4	1804604	Fiber-Optic Communication	PE	3	0	0	30	70	3
5	1804605	Data structures and Algorithms	PE	3	0	0	30	70	3
6	1804606	Digital Signal Processors & Architectures	PE	3	0	0	30	70	3
7	1804607	Analog IC Design	PE	3	0	0	30	70	3
8	1804608	Introduction to MEMS	PE	3	0	0	30	70	3


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9		Open Elective I	OE	3	0	0	30	70	3
10	1804609	Analog and digital communication Lab	EC	0	0	3	50	50	1.5
11	1804610	Digital Signal Processing Lab	EC	0	0	3	50	50	1.5
12	1804611	Micro Wave & Optical Communication Lab	EC	0	0	4	50	50	2
13	18996M1	Organizational Behaviour	MC	3	0	0	30		0
14	1804613	Internship	PR				100		2
		Total:							22

VII Semester

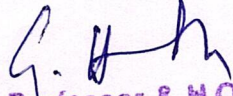
S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1804701	Internet Of Things	EC	3	0	0	30	70	3
2	1804702	Electronic Measurements & Instrumentation	EC	3	0	0	30	70	3
		Professional Elective II							
3	1804703	Information Theory & Coding	PE	3	0	0	30	70	3
4	1804704	Real Time Operating Systems	PE	3	0	0	30	70	3
5	1804705	Scientific Computing	PE	3	0	0	30	70	3
6	1804706	CMOS Design	PE	3	0	0	30	70	3
7	1804707	Electromagnetic Interference & Compatibility	PE	3	0	0	30	70	3
		Professional Elective III							
8	1804708	Radar and Satellite Communication	PE	3	0	0	30	70	3
9	1804709	Computer System Architecture	PE	3	0	0	30	70	3
10	1804710	Digital Image & Video processing	PE	3	0	0	30	70	3
11	1804711	Digital IC Design	PE	3	0	0	30	70	3
12	1804712	Cognitive Radio	PE	3	0	0	30	70	3


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13		Open Elective II	OE	3	0	0	30	70	3
14		Open Elective III	OE	3	0	0	30	70	3
15	1804713	IOT Lab	EC	0	0	2	50	50	1
16	1804714	Project Stage-I	PR	0	0	6	100	0	3
17	1824715	Human Values and Professional Ethics	MC	3	0	0	30	0	0
		Total:							22

VIII Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
		Professional Elective IV							
1	1804801	Wireless Communication	PE	3	0	0	30	70	3
2	1804802	SoC Architecture	PE	3	0	0	30	70	3
3	1804803	Speech Processing	PE	3	0	0	30	70	3
4	1804804	Low Power VLSI	PE	3	0	0	30	70	3
5	1804805	RF System Design	PE	3	0	0	30	70	3
		Open Elective IV	OE	3	0	0	30	70	3
6	1804806	Technical Seminar	PR	0	0	2	100	0	1
7	1804807	Project Stage-II	PR	0	0	10	50	50	5
		Total:							12


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Department of Electronics & Communication Engineering

(M. Tech Digital Electronics and Communication Systems)

New Course Offered under R18PG -Regulations

AY 2019-2020

R18PG- III Semester

S.NO	Subject Code	Name of the subject
1	1854302	Joint Time Frequency Analysis & MRA
2	1854303	Pattern recognition & Machine learning

R18PG- IV Semester

S.NO	Subject Code	Name of the subject
1	1854401	Dissertation Phase II

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Department of Computer Science & Engineering New Courses Offered under R18UG Regulations, AY 2019-20

R18UG – III Semester

S.no	Course Code	Course Title
1	1805303	Data Structures
2	1805304	Discrete Mathematics
3	1805306	Python Programming
4	1805310	Python Programming Lab

R18UG – IV Semester

S.no	Course Code	Course Title
1	1805403	Computer Organization
2	1805410	Operating Systems Lab

HoD/CSE

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M E, Ph. D.

Professor & HOD CSE

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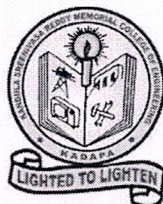
**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

COURSE STRUCTURE AND SYLLABUS

FOR

B.Tech CSE (I Sem - VIII Sem) (R18 Regulations)

**(Effective from 2018-19 for Regular students and from 2019-20 for
Later Entry students)**



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COMPUTER SCIENCE AND ENGINEERING

I Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1821101	BSC	Mathematics – I	3	1	0	30	70	4
1822104	BSC	Engineering Physics	3	1	0	30	70	4
1802103	ESC	Basic Electrical Engineering	3	1	0	30	70	4
1803107	ESC	Engineering Graphics & Design	1	0	4	50	50	3
1822108	BSC	Engineering Physics Lab	0	0	3	50	50	1.5
1802109	ESC	Basic Electrical Engineering Lab	0	0	2	50	50	1
1803110	ESC	Workshop and Manufacturing Practices	1	0	4	50	50	3
TOTAL			11	3	13	290	410	20.5

II Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1821201	BSC	Mathematics – II	3	1	0	30	70	4
1823202	BSC	Engineering Chemistry	3	1	0	30	70	4
1824203	HSMC	English	2	0	0	30	70	2
1805204	ESC	Programming for Problem Solving	3	0	0	30	70	3
1823207	BSC	Chemistry Lab	0	0	3	50	50	1.5
1805208	ESC	Programming for Problem Solving Lab	0	0	4	50	50	2
1824209	HSMC	English Lab	0	0	2	50	50	1
TOTAL			11	2	9	270	430	17.5



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III Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
18993M1	MC	Environmental Science (Mandatory Course-1)	2	0	0	30	--	0
1804302	PN	Basics of Electronics Engineering	3	0	0	30	70	3
1805303	PCC	Data Structures	3	0	0	30	70	3
1805304	PCC	Discrete Mathematics	3	0	0	30	70	3
1805305	PCC	Digital Logic Design	3	0	0	30	70	3
1805306	PCC	Python Programming	3	0	0	30	70	3
1825307	HSMC	Managerial Economics and Financial Accounting	3	0	0	30	70	3
1814311	PN	Basics of Electronics Engineering Lab	0	0	2	50	50	1
1805309	PCC	Data Structures Lab	0	0	3	50	50	1.5
1805310	PCC	Python Programming Lab	0	0	3	50	50	1.5
TOTAL			20	0	8	360	570	22

IV SEMESTER

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1823401	BSC	Biology for Engineers	2	0	0	30	70	2
1821402	BSC	Probability & Statistics	3	0	0	30	70	3
1805403	PCC	Computer Organization	3	0	0	30	70	3
1805404	PCC	Operating Systems	3	0	0	30	70	3
1805405	PCC	Design and Analysis of Algorithms	3	0	0	30	70	3
1805406	PCC	Java Programming	3	0	0	30	70	3
1805407	PCC	Formal Languages and Automata Theory	3	0	0	30	70	3
1805408	PCC	Java Programming lab	0	0	2	50	50	1
1805410	PCC	Operating Systems Lab	0	0	2	50	50	1
TOTAL			20	0	4	310	590	22



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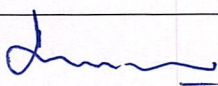
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V SEMESTER

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1805501	PCC	Web Technologies	2	0	0	30	70	2
1805502	PCC	Data Base Management Systems	3	0	0	30	70	3
1805503	PCC	Computer Networks	3	0	0	30	70	3
1805504	PCC	Software Engineering	3	0	0	30	70	3
1805505 1805506 1805507	PEC	Professional Elective-1 1. Human Computer Interaction 2. Multimedia Systems 3. Distributed Systems	3	0	0	30	70	3
1805508	PCC	Compiler Design	3	0	0	30	70	3
1825509	PCC	Constitution of India	2	-	-	30	--	0
1805510	PCC	Databases Lab	0	0	2	50	50	1
1805511	PCC	Web Technologies Lab	0	0	2	50	50	1
1824512	HSC	Advanced English and Communications Skills lab	0	0	2	50	50	1
1805513	Project	Socially Relevant Project	0	0	4	100	--	2
		TOTAL	19	0	10	460	570	22

VI SEMESTER

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1805601	PCC	Internet of Things	3	0	0	30	70	3
1805602	PCC	Data Mining	3	0	0	30	70	3
1805603 1805604 1805605	PEC	Professional Elective-2 1. Artificial Intelligence 2. Software Testing 3. Mobile Adhoc Networks	3	0	0	30	70	3
18OE501 18OE502	OEC	Open Elective-1 1. Data Structures 2. Database Management Systems	3	0	0	30	70	3
1825609	HSC	Management Science	3	0	0	30	70	3
1805608	PCC	Mobile Application Development	3	0	0	30	70	3
1805609	PCC	Internet of Things Lab	0	0	2	50	50	1
1805610	PCC	Mobile Application Development Lab	0	0	2	50	50	1
1805611	Project	Internship	--	--	--	100	--	2
		TOTAL	18	0	04	380	520	22



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VII SEMESTER

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1805701	PCC	Machine Learning	3	0	0	30	70	3
1805702	PCC	Big Data Technologies	3	0	0	30	70	3
1805703 1805704 1805705	PEC	Professional Elective-3 1. Computer Graphics 2. Design Patterns 3. Cloud Computing	3	0	0	30	70	3
18OE503 18OE504	OEC	Open Elective-2 1. Python Programming 2. Computer Networks	3	0	0	30	70	3
18OE505 18OE506	OEC	Open Elective-3 1. Web Technologies 2. Operating Systems	3	0	0	30	70	3
1805710	PCC	Big Data Technologies Lab	0	0	2	50	50	1
1805711	PCC	Machine Learning Lab	0	0	2	50	50	1
1805712	Project	Technical Seminar	0	0	2	100	--	1
1805713	Project	Project-I	0	0	8	100	--	4
TOTAL			15	0	14	450	450	22

VIII SEMESTER

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1805801 1805802 1805803	PEC	Professional Elective-4 1. Cyber Security 2. Object Oriented Analysis & Design 3. Deep Learning	3	0	0	30	70	3
18OE507 18OE508	OEC	Open Elective-4 1. Software Engineering 2. Cloud Computing	3	0	0	30	70	3
1805806	Project	Project-II	0	0	12	50	50	6
TOTAL			6	0	12	110	190	12



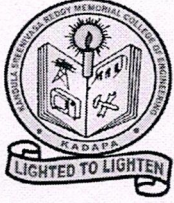
Dr. M. Sreenivasulu,

M E, Ph D.

Professor & HOD CSE

K.S.R.M. College of Engineering

KADAPA - 516 003



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (M.Tech – Computer Science and Engineering)

New Course Offered under R18PG Regulations, A.Y 2019-2020

R18PG - III Semester

S.No	Course Code	Course Name
1	1855301	Big Data Analytics (Program Elective-V)
2	1855302	Compiler for High Performance Computing (Program Elective-V)
3	1855303	Advanced Algorithms (Program Elective-V)
4	18713XX	Open Elective

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**ACADEMIC REGULATIONS (R18)
COURSE STRUCTURE AND DETAILED SYLLABUS**

**MASTER OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING**

For

**M.Tech.- Regular Two Year Post Graduate Degree Programme
(Applicable for the batches admitted from 2018-19)**



**KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF
ENGINEERING
(UGC-Autonomous)
Kadapa 516003, A.P**

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

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E-mail: principal@ksrmce.ac.in

Website: www.ksrmce.ac.in

M.Tech. (Computer Science & Engineering)-R18 Course Structure

M.Tech SEMESTER-I

S.No	Subject Code	Subject	L	T	P	IM	EM	Credits
1	1855101	Program Core-I Mathematical foundations of Computer Science	3	0	0	40	60	3
2	1855102	Program Core-II Advanced Data Structures	3	0	0	40	60	3
3	1855103 1855104 1855105	Program Elective-I I. Machine Learning II. Wireless Sensor Networks III. Introduction to Intelligent Systems	3	0	0	40	60	3
4	1855106 1855107 1855108	Program Elective-II I. Data Science II. Distributed Systems III. Advanced Wireless and Mobile Networks	3	0	0	40	60	3
5	1800109	Research Methodology and IPR	2	0	0	40	60	2
6	1870AXX	Audit Course-I	2	0	0	40	00	0
7	1855110	Advanced Data Structures Lab	0	0	4	50	50	2
8	1855111	Software Lab-I	0	0	4	50	50	2
Total			16	0	8	340	400	18



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M. E., Ph. D.

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M.Tech SEMESTER-II

S.No	Subject Code	Subject	L	T	P	IM	EM	Credits
1	1855201	Program Core-III Mobile Applications and Services	3	0	0	40	60	3
2	1855202	Program Core-IV Human Computer Interaction	3	0	0	40	60	3
3	1855203 1855204 1855205	Program Elective-III I. Internet of Things II. Data Preparation and Analysis III. Computer Vision	3	0	0	40	60	3
4	1855206 1855207 1855208	Program Elective-IV I. Cloud Computing II. Soft Computing III. Digital Forensics	3	0	0	40	60	3
5	1870AXX	Audit Course-II	2	0	0	40	00	0
6	1855210	Mobile Applications and Services Lab	0	0	4	50	50	2
7	1855211	Software Lab-II	0	0	4	50	50	2
8	1855209	Mini Project with Seminar	2	0	0	50	50	2
Total			14	0	8	350	340	18



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M. E., Ph. D.

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M.Tech SEMESTER-III

S.No	Subject Code	Subject	L	T	P	IM	EM	Credits
1	1855301 1855302 1855303	Program Elective-V I. Big Data Analytics II. Compiler for High Performance Computing III. Advanced Algorithms	3	0	0	40	60	3
2	18713XX	Open Elective	3	0	0	40	60	3
3	1855310	Dissertation-I	0	0	20	100	00	10
Total			6	0	20	180	120	16

M.Tech SEMESTER-IV

S.No	Subject Code	Subject	L	T	P	IM	EM	Credits
1	1855401	Dissertation-II	0	0	32	50	50	16
Total			0	0	32	50	50	16

AUDIT COURSES

S.No	Subject Code	Subject
1	1870A01	English for Research Paper Writing
2	1870A02	Disaster Management
3	1870A03	Sanskrit for Technical Knowledge
4	1870A04	Value Education
5	1870A05	Constitution of India
6	1870A06	Pedagogy Studies
7	1870A07	Stress Management by Yoga
8	1870A08	Personality Development through Life Enlightenment Skills

OPEN ELECTIVES

S.No	Subject Code	Subject
1	1871304	Business Analytics
2	1871305	Industrial Safety
3	1871306	Operations Research
4	1871307	Cost Management of Engineering Projects
5	1871308	Composite Materials
6	1871309	Waste to Energy



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Department of Humanities & Sciences

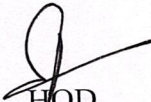
New courses offered under R18UG Regulations in AY.2019-20

III Semester

S.No	Name of the subject	Subject Code
1	Biology for Engineers	1823301
2	Numerical Methods and Probability & Statistics	1821302
3	Managerial Economics & Financial Analysis	1824302
4	Mathematics-III	1821301
5	Environmental Science	18993M1
6	Managerial Economics and Financial Analysis	1825307
7	Soft Skill Lab	1824309

IV Semester

S.No	Name of the subject	Subject Code
1	Biology for Engineers	1823401
2	Managerial Economics & Financial Analysis	1825401
3	Mathematics-III	1821401
4	Environmental Science	18994M1
5	Probability & Statistics	1821402
6	Effective Technical Communication	1824402
7	Advanced English Communication Lab	1824409/410


HOD
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Department of Civil Engineering (R18 UG)

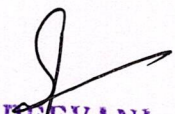
Curriculum

3rd Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1823301	BSC	Biology for Engineers	2	0	0	30	70	2
1821302	BSC	Numerical Methods, Probability & Statistics	2	1	0	30	70	3
1803303	ESC	Basic Mechanical Engineering	2	1	0	30	70	3
1801304	PCC	Engineering Mechanics	3	1	0	30	70	4
1801305	PCC	Surveying and Geomatics	2	1	0	30	70	3
1801306	PCC	Building Materials and Construction	2	1	0	30	70	3
1801307	PCC	Computer Aided Civil Engineering Drawing Lab	0	0	4	50	50	2
1801308	PCC	Surveying and Geomatics Lab	0	0	2	50	50	1
1801309	PCC	Civil Engineering Workshop	0	0	2	50	50	1
Total			13	5	8	330	570	22

4th Semester

Subject Code	Subject Category	Subject Title	L	T	P	IM	EM	CR
1825401	OEC 1	Managerial Economics & Financial Analysis	3	0	0	30	70	3
1824402	HSMC	Effective Technical Communication	2	1	0	30	70	3
1801403	PCC	Engineering Geology	2	0	0	30	70	2
1801404	PCC	Fluid Mechanics	3	1	0	30	70	4
1801405	PCC	Solid Mechanics – 1	3	1	0	30	70	4
1801406	PCC	Disaster Preparedness & Planning Management	2	0	0	30	70	2
18994M1	MC 1	Environmental Studies	2	0	0	30	0	0
1801407	PCC	Engineering Geology Lab	0	0	2	50	50	1
1801408	PCC	Fluid Mechanics Lab	0	0	3	50	50	1.5
1801409	PCC	Solid Mechanics Lab	0	0	3	50	50	1.5
Total			17	3	8	360	570	22


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Department of EEE
Course Structure (R18UG)

B. Tech – III Semester (Theory - 6, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1823301	Biology for Engineers	BSC	2	0	0	30	70	2
2	1814302	Electronics Devices & Circuits	PCC	3	0	0	30	70	3
3	1802303	Electrical Circuit Analysis	PCC	3	1	0	30	70	4
4	1802304	Electromagnetic Fields	PCC	3	0	0	30	70	3
5	1802305	Electrical Machines - I	PCC	3	1	0	30	70	4
6	1802306	Power Systems - I	PCC	3	0	0	30	70	3
7	1802307	Electrical Circuit Analysis Lab	PCC	0	0	2	50	50	1
8	1814308	Electronics Devices & Circuits Lab	PCC	0	0	2	50	50	1
9	1824309	Soft Skills Lab	HSMC	0	0	2	50	50	1
Total				17	02	06	330	570	22

B. Tech – IV Semester (Theory - 6, Lab - 3)

S. No.	Subject Code	SUBJECT	SC	L	T	P	IM	EM	CR
1	1821401	Mathematics - III	BSC	3	0	0	30	70	3
2	1814402	Digital System Design	PCC	3	0	0	30	70	3
3	1802403	Electrical Measurements	PCC	3	0	0	30	70	3
4	1802404	Control Systems	PCC	3	0	0	30	70	3
5	1802405	Electrical Machines - II	PCC	3	0	0	30	70	3
6	1802406	Power Systems - II	PCC	3	0	0	30	70	3
7	1802407	Electrical Measurements Lab	PCC	0	0	2	50	50	1
8	1802408	Electrical Machines - I Lab	PCC	0	0	2	50	50	1
9	1805409	Python Programming Lab	ESC	0	0	4	50	50	2
10	18994M1	Environmental Science	MC	2	0	0	30	00	0
Total				20	00	08	360	570	22

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DEPARTMENT OF MECHANICAL ENGINEERING

CURRICULAM(R18UG)


Semester III [Second year]

S. N O	Course Code	Subject code	Course Title	Hours per week			IM	EM	Total contact hours	credits
				L	T	P				
1	BSC 301	1823301	Biology for Engineers	3	0	0	30	70	3	3
2	BSC	1821302	Numerical methods, probability and statics	2	0	0	30	70	2	2
3	ESC 301	1801303	Engineering Mechanics	3	0	0	30	70	3	3
4	PCC-ME	1803304	Manufacturing Process	3	0	0	30	70	3	3
5	PCC-ME	1803305	Strength of materials	3	0	0	30	70	3	3
6	PCC-ME	1803306	Material science and engineering	3	0	0	30	70	3	3
7	PCC-ME	1803307	Thermodynamics	3	0	0	30	70	3	3
8	PCC	1803308	Material science, Mechanics of solids Lab	0	0	3	50	50	3	1
9	PCC	1803309	Manufacturing technology Lab	0	0	3	50	50	3	1
Total credits									22	
Total Hours									26	

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Semester IV (Second Year)

S. N O	Course Code	Subject code	Course Title	Hours per week			IM	EM	Total contact hours	credits
				L	T	P				
1	PCC-ME	1803401	Applied Thermodynamics	3	0	0	30	70	3	3
2	PCC-ME	1803402	Fluid Mechanics & Fluid Machinery	3	0	0	30	70	3	3
3	PCC-ME	1803403	Kinematics of Machinery	3	0	0	30	70	3	3
4	ESC	1814404	Basic Electronic Engineering	3	1	0	30	70	4	4
5	PCC-ME	1803405	Instrumentation and control systems	3	0	0	30	70	3	3
6	PCC-ME	1803406	Computer Aided Machine Drawing	1	0	2	50	50	3	2
7	ESC	1803407	Basic Electronics & MOF Lab	0	0	3	50	50	3	1.5
8	MC-I	18994M1	Environmental Science	2	0	0	30	0	2	0
9	PCC – ME	1803408	Seminar/Industrial Training	0	0	1	100	0	1	1
10	HMSC-	1824409	Advanced English communication Lab	0	0	3	50	50	03	1.5
									Total credits	22
									Total Hours	27


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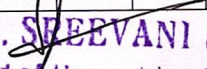
Department of ECE
Curriculum (R18UG)

III Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1821301	Mathematics – III	BSC	3	1	0	30	70	4
2	1825307	Managerial Economics and Financial Analysis	HSMC	3	0	0	30	70	3
3	1804303	Electronic Devices and Circuits	EC	3	0	0	30	70	3
4	1804304	Digital System Design	EC	3	0	0	30	70	3
5	1804305	Signals And Systems	EC	3	0	0	30	70	3
6	1804306	Network Theory	EC	3	0	0	30	70	3
7	1805307	Python Programming	ESC	0	0	3	50	50	1.5
8	1804308	Electronic Devices and Circuits Lab	EC	0	0	3	50	50	1.5
9	18993M1	Environmental Science	MC	2	0	0	30		0
		Total:							22

IV Semester

S. No.	Subject Code	Subject	Category	L	T	P	IM	EM	Credits
1	1823401	Biology for Engineers	BSC	2	0	0	30	70	2
2	1804402	Probability Theory and Stochastic Processes	EC	3	0	0	30	70	3
3	1804403	Analog and Digital Circuits	EC	3	0	0	30	70	3
4	1804404	Control Systems	EC	3	0	0	30	70	3
5	1804405	Linear IC Applications	EC	3	0	0	30	70	3
6	1804406	Electromagnetic Theory and Transmission lines	EC	3	0	0	30	70	3
7	1804407	LABVIEW Programming Lab	ESC	0	0	3	50	50	1.5
8	1804408	Analog and Digital Circuits Lab	EC	0	0	3	50	50	1.5
9	1824410	Advanced English Communication Skills lab	HS	0	0	4	50	50	2
		Total:							22


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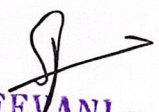
**COMPUTER SCIENCE AND ENGINEERING
CURRICULAM(R18)**

III Semester

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
18993M1	MC	Environmental Science (Mandatory Course-1)	2	0	0	30	--	0
1804302	PN	Basics of Electronics Engineering	3	0	0	30	70	3
1805303	PCC	Data Structures	3	0	0	30	70	3
1805304	PCC	Discrete Mathematics	3	0	0	30	70	3
1805305	PCC	Digital Logic Design	3	0	0	30	70	3
1805306	PCC	Python Programming	3	0	0	30	70	3
1825307	HSMC	Managerial Economics and Financial Accounting	3	0	0	30	70	3
1814311	PN	Basics of Electronics Engineering Lab	0	0	2	50	50	1
1805309	PCC	Data Structures Lab	0	0	3	50	50	1.5
1805310	PCC	Python Programming Lab	0	0	3	50	50	1.5
		TOTAL	20	0	8	360	570	22

IV SEMESTER

Subject Code	Subject Category	Course Name	L	T	P	IM	EM	CR
1823401	BSC	Biology for Engineers	2	0	0	30	70	2
1821402	BSC	Probability & Statistics	3	0	0	30	70	3
1805403	PCC	Computer Organization	3	0	0	30	70	3
1805404	PCC	Operating Systems	3	0	0	30	70	3
1805405	PCC	Design and Analysis of Algorithms	3	0	0	30	70	3
1805406	PCC	Java Programming	3	0	0	30	70	3
1805407	PCC	Formal Languages and Automata Theory	3	0	0	30	70	3
1805408	PCC	Java Programming lab	0	0	2	50	50	1
1805410	PCC	Operating Systems Lab	0	0	2	50	50	1
		TOTAL	20	0	4	310	590	22


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 K.S.R.M. College of Engineering
 KADAPA - 516 005