SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE (A)

China Amiram, Bhimavaram, Andhra Pradesh- 534204

CHOICE BASED CREDIT SYSTEM / ELECTIVE COURSE SYSTEM

INDEX

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)
(Affiliated to JNTUK, Kakinada), (Recognized by AICTE, New Delhi) Accredited by NAAC with'A'Grade
UG Programmes CE, CSE, ECE, EEE, IT & ME are Accredited by NBA
Estd:1980
ChinnaAmiram, Bhimavaram-534204. (AP)

Regulation: R 17						III / IV - B.Tech. II- Semester				
CIVIL ENGINEERING **(under Choice Based Credit System / Elective Course System)**										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Course Code	**Course Name**	**C**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
B17 CE3201	Reinforced Concrete Structures-II	ES	3	3	1	--	30	70	100
B17 CE3202	Steel Structures-II	ES	3	3	1	--	30	70	100
B17 CE3203	Geotechnical Engineering-II	ES	3	3	1	--	30	70	100
B17 CE3204	Transportation Engineering-I	ES	3	3	1	--	30	70	100
B17 CE3205	Air pollution and Control	ES	3	3	1	--	30	70	100
#OE	Open Elective	ES	3	3	1	--	30	70	100
B17 CE3209	Geotechnical Engineering Lab	ES	2	--	--	3	50	50	100
B17 CE3210	Concrete Technology Lab	ES	2	--	--	3	50	50	100
B17BS3201	Employability Skills	ES	1	--	3	--	30	70	100
B17BS3202	Basic Coding		1	--	--	3	50	50	100
TOTAL			24	18	9	9	360	640	1000

Open Elective	B17CS3213	Data Base Management Systems
	B17CE3206	Alternative Energy Sources
	B17CE3207	Wastewater Management
	B17CE3208	Green Fuel Technologies

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SCHEME OF INSTRUCTION & **EXAMINATION** (With effect from 2017-18 admitted Batch onwards)										
Course Code	**Course Name**	**Ca**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
B17 CE4101	Transportation Engineering-II	ES	3	3	1	-	30	70	100
B17 CE4102	Water resources Engineering-I	ES	3	3	1	-	30	70	100
B17 CE4103	Project Planning & Management	ES	3	3	1	-	30	70	100
#ELE-I	Elective-I	ES	3	3	1	-	30	70	100
#ELE-II	Elective-II	ES	3	3	1	-	30	70	100
B17 CE4112	Highway Materials Testing Lab	ES	2	-	-	3	50	50	100
B17 CE4113	Computer Applications in Civil Engineering Lab	ES	2	-	-	3	50	50	100
TOTAL			**19**	**15**	**5**	**6**	**250**	**450**	**700**

	B17 CE 4104	Finite Element Methods of Analysis
#ELE-I	B17 CE 4105	Solid Waste Management
	B17 CE 4106	Expansive Soils
	B17 CE 4107	Traffic Engineering
#ELE-II	B17 CE 4108	Prestressed Concrete Structures
	B17 CE 4109	Ground Improvement Techniques
	B17 CE 4110	Transportation Planning
	B17 CE 4111	Urban Hydrology

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SCHEME OF INSTRUCTION & **EXAMINATION** (With effect from 2017-18 admitted Batch onwards)										
Course Code	**Course Name**	**Ca**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
B17 CE4201	Water Resources Engineering-II	ES	3	3	1	--	30	70	100
#ELE-III	Elective-III	ES	3	3	1	--	30	70	100
B17 CE4206	Irrigation Structures Design& Drawing	ES	2	1	--	2	50	50	100
B17 CE4207	Seminar	ES	2	--	--	--	50	--	50
B17 CE4208	Project work	ES	10	--	--	3	60	140	200
TOTAL			**20**	**7**	**2**	**5**	**220**	**330**	**550**

	B17 CE 4202	Advanced Structural Analysis
#ELE-III	B17 CE 4203	Environmental Impact Assessment
	B17 CE 4204	Earth Retaining Structures
	B17 CE 4205	Pavement Analysis and Design

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Regulation: R17				III / IV - B.Tech. I- Semester					
COMPUTER SCIENCE ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EAMINATION (With effect from 2017-18 admitted Batch onwards)									
CodeNo.	**Course**	**C**	**Cr**	**L**	**T**	**Lab**	**I_M**	**E_M**	**Total Marks**
B17 CS3101	Computer Networks	ES	3	3	1	--	30	70	100
B17 CS3102	Web Technologies	ES	3	3	1	--	30	70	100
B17 CS3103	Formal Languages & Automata Theory	ES	3	3	1	--	30	70	100
B17 CS3104	Database Management Systems	ES	3	3	1	--	30	70	100
B17 CS3105	Application DevelopmentUsing Java	ES	3	3	1	--	30	70	100
#OE	Open Elective	ES	3	3	1	--	30	70	100
B17 C3108	Database Management Systems Lab.	ES	2	--	--	3	50	50	100
B17 CS3109	Application DevelopmentLab.	ES	2	--	--	3	50	50	100
B17 BS3101	Problem Solving & Linguistic Competence	BS	1	--	3	--	30	70	100
B17 BS3103	Advanced Coding	BS	1	--	--	3	50	50	100
Total			24	18	9	9	360	640	1000

#OE	B17CS3106	Embedded Systems
	B17CS3107	Cyber Security
	B17EC3109	Digital Signal Processing
	B17ME3110	Industrial Robotics

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(With effect from 2017-18 admitted Batch onwards)

CodeNo.	Name of the Subject	C	Cr	L	T	Lab	I_M	E_M	Total Marks
B17 CS3201	Data Warehousing & Data Mining	ES	3	3	1	--	30	70	100
B17 CS3202	Object Oriented Software Engineering	ES	3	3	1	--	30	70	100
B17 CS3203	Design and Analysis of Algorithms	ES	3	3	1	--	30	70	100
B17 CS3204	Artificial Intelligence	ES	3	3	1	--	30	70	100
B17 CS3205	Compiler Design	ES	3	3	1	--	30	70	100
ELE-I	Elective-I	ES	3	3	1	--	30	70	100
B17 CS3210	Software Engineering Mini Project Lab	ES	2	--	--	3	50	50	100
B17 CS3211	Network Programming Lab	ES	2	--	--	3	50	50	100
B17 BS3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS3204	Competitive Coding	BS	1	--	--	3	50	50	100
B17 BS3206	IPR & PATENTS	BS	--	--	2	--	--	--	--
Total			24	18	11	9	360	640	1000

	B17CS3206	Cloud Computing
Elective-I	B17CS3207	Mobile Computing
	B17CS3208	Distributed Systems
	B17CS3209	Information Retrieval Systems

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CodeNo.	Name of the Subject	C	Cr	L	T	Lab	I_M	E_M	Total Marks
B17 CS4101	Big Data Analytics	ES	3	3	1	-	30	70	100
B17 CS4102	Internet of Things	ES	3	3	1	-	30	70	100
B17 CS4103	Machine Learning	ES	3	3	1	-	30	70	100
B17 BS4101	Managerial Economics And Financial Accountancy	BS	3	3	1	-	30	70	100
#ELE-II	Elective-II	ES	3	3	1	-	30	70	100
B17 CS4107	Big Data AnalyticsLab	ES	2	-	-	3	50	50	100
B17 CS4108	Internet of ThingsLab	ES	2	-	-	3	50	50	100
Total			19	15	5	6	250	450	700

#ELE-II	B17 CS 4104	Cryptography and Network Security
	B17 CS 4105	Software Project Management
	B17 CS 4106	Scripting Languages

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CodeNo.	Name of the Subject	C	Cr	L	T	Lab	Int. Marks	Ext. Marks	Total Marks
B17 BS 4201	Management and Organisational Behaviour	BS	3	3	1	--	30	70	100
#ELE-III	Elective-III	ES	3	3	1	--	30	70	100
B17 CS 4204	Machine Learning Lab	ES	2	--	--	3	50	50	100
B17 CS 4205	Seminar	ES	2	--	--	--	50	--	50
B17 CS 4206	Project Work	ES	10	--	--	3	60	140	200
Total			20	6	2	6	220	330	550

- C – Category

  Cr – Credits

  L – Lecture Hours

  T – Tutorial Hours

  Int.Marks – Internal Marks

  Ext.Marks – Exam Marks

#ELE-III	B17 CS 4201	Deep Learning
	B17 CS 4202	Concurrent and Parallel Programming
	B17 CS 4203	Artificial Neural Networks

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ELECTRONICS& COMMNICATION ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
CodeNo.	**Name of the Subject**	**Category**	**Credits**	**Lecture Hrs**	**Tutorial Hrs**	**Lab Hrs**	**Internal Marks**	**External Marks**	**Total Marks**
B17 EC 3201	Microprocessors and its applications	ES	3	3	1	--	30	70	100
B17 EC 3202	Microwave Engineering	ES	3	3	1	--	30	70	100
B17 EC 3203	VLSI Design	ES	3	3	1	--	30	70	100
B17 EC 3204	Digital Signal Processing	ES	3	3	1	--	30	70	100
B17 EC 3205	Radar Engineering	ES	3	3	1	--	30	70	100
#OE	OPEN ELECTIVE	ES	3	3	1	--	30	70	100
B17 EC3208	Microprocessors and Microcontrollers Lab	ES	2	--	--	3	50	50	100
B17 EC 3209	VLSI Lab	ES	2	--	--	3	50	50	100
B17 BS3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS3203	Advanced Coding	BS	1	--	--	3	50	50	100
B17 BS 3206	IPR & PATENTS	BS	--	--	2	--	--	--	--
Total			24	18	11	9	360	640	1000

OPEN ELECTIVE	B17EC3206	Microcontrollers
	B17CS3214	Oops through Java
	B17CS3215	Data Mining
	B17ME3210	Industrial Robotics
	B17EE3209	Power Electronics
	B17EC3207	Bio Medical Engineering
	B17CS3216	Artificial Neural Networks

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CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 EC4101	Wireless Communications &Networks	ES	3	3	1	--	30	70	100
B17 EC4102	Digital Image Processing	ES	3	3	1	--	30	70	100
B17 EC4103	Fiber Optic Communications	ES	3	3	1	--	30	70	100
B17 EC4104	Embedded Systems & Internet Of Things	ES	3	3	1	--	30	70	100
#ELE-I	ELECTIVE-I	ES	3	3	1	--	30	70	100
B17 EC4108	Digital Signal Processing Lab	ES	2	--	--	3	50	50	100
B17 EC4109	IOT Lab	ES	2	--	--	3	50	50	100
	Total		19	15	5	6	250	450	700

#ELE - I	B17 EC 4105	Information Theory and Coding
	B17 EC 4106	Satellite Communications & GPS
	B17 EC 4107	Analog IC Design

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CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs.	Tutorial Hrs.	Lab Hrs.	Internal Marks	External Marks	Total Marks
B17 EC 4201	Cellular and Mobile Communications	ES	3	3	1	--	30	70	100
#ELE-II	ELECTIVE - II	ES	3	3	1	--	30	70	100
B17 EC 4205	Advanced Communication Lab	ES	2	--	--	3	50	50	100
B17 EC 4206	Seminar	ES	2	--	--	--	50	--	50
B17 EC 4207	Project	ES	10	--	--	6	60	140	200
Total			20	6	5	9	220	330	550

#ELE - II	B17 EC 4202	AI & Machine Learning
	B17 EC 4203	Network Security and Cryptography
	B17 EC 4204	Digital Signal Processors and Architectures

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CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 EE3201	Advanced Control Systems	ES	3	3	1	--	30	70	100
B17 EE3202	Power Electronics	ES	3	3	1	--	30	70	100
B17 EE3203	Power System Analysis And Stability	ES	3	3	1	--	30	70	100
B17 EE3204	Digital Signal Processing	ES	3	3	1	--	30	70	100
B17 EE3205	Power System Protection	ES	3	3	1	--	30	70	100
# OE	Open Elective	ES	3	3	1	--	30	70	100
B17 EE3207	Electrical Machines – II Lab	ES	2	--	--	3	50	50	100
B17 EE3208	Control Systems Lab	ES	2	--	--	3	50	50	100
B17 BS3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS3203	Advanced Coding	BS	1	--	--	3	50	50	100
Total			24	18	9	9	360	640	1000

OPEN ELECTIVE	B17 CS 3214	Oops Through Java
	B17 CS 3217	Unix & Shell Programming
	B17 CS 3218	Neural Networks & Fuzzy Logic
	B17 EC 3203	VLSI Design
	B17 ME 3210	Industrial Robotics

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SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 EE4101	Electric Drives	ES	3	3	1	-	30	70	100
B17 EE 4102	Power System Operation & Control	ES	3	3	1	-	30	70	100
B17 EE 4103	Electric Vehicles	ES	3	3	1	-	30	70	100
#ELE-I	Elective-I	ES	3	3	1	-	30	70	100
#ELE-II	Elective-II	ES	3	3	1	-	30	70	100
B17 EE4110	Power ElectronicsLab	ES	2	-	-	3	50	50	100
B17 EE4111	Power System Simulation Lab	ES	2	-	-	3	50	50	100
Total			19	15	5	6	250	450	700

#ELE-I	B17 EE 4104	Operations Research
	B17 EE 4105	Flexible AC Transmission Systems
	B17 EE 4106	Integration of Distributed Generation
#ELE-II	B17 EE 4107	High Voltage Engineering
	B17 EE 4108	Electric Power Quality
	B17 EE 4109	Energy Management & Auditing

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SCHEME OF INSTRUCTION & EXAMINATION **(With effect from 2017-18 admitted Batch onwards)**										
CodeNo.	Name of the Subject	Category	Cr.	Lect Hrs	Tut.Hrs	Lab Hrs	Int. Marks	Ext. Marks	Total Marks
B17 EE4201	Electrical Machine Design	ES	3	3	1	--	30	70	100
#ELE-III	Elective-III	ES	3	3	1	--	30	70	100
B17 EE4205	Power System Protection Lab	ES	2	--	--	3	50	50	100
B17 EE4206	Seminar	ES	2	--	--	--	50	--	50
B17 EE4207	Project Work	ES	10	--	--	3	60	140	200
Total			**20**	**6**	**2**	**6**	**220**	**330**	**550**

#ELE-III	B17 EE 4202	Electrical Distribution Systems
	B17 EE 4203	Utilization of Electrical Energy & Traction
	B17 EE 4204	HVDC Transmission

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INFORMATION TECHNOLOGY (under Choice Based Credit System / Elective Course System)								
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CodeNo.	**Name of the Subject**	**Category**	**Credits**	**Lecture Hrs**	**Tutorial Hrs**	**Lab Hrs**	**Internal Marks**	**External Marks**	**Total Marks**
B17 IT3201	Web Technologies	ES	3	3	1	--	30	70	100
B17 IT3202	Object Oriented SoftwareEngineering	ES	3	3	1	--	30	70	100
B17 IT3203	Cryptography & Network Security	ES	3	3	1	--	30	70	100
B17 IT3204	Statistics With R Programming	ES	3	3	1	--	30	70	100
B17 IT3205	Data Ware Housing and Business Intelligence	ES	3	3	1	--	30	70	100
#OE	OPEN ELECTIVE	ES	3	3	1	--	30	70	100
B17 IT3210	Web Technologies Lab	ES	2	--	--	3	50	50	100
B17 IT3211	Software Engineering andMini Project Lab	ES	2	--	--	3	50	50	100
B17BS3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS3205	Competitive Coding-II	BS	1	--	--	3	50	50	100
B17 BS3206	IPR & PATENTS	BS	--	--	2	--	--	--	--
Total			24	18	11	9	360	640	1000

B17 IT 3206	Artificial Intelligence
B17 IT 3207	

| B17 IT 3209 | Operations Research |

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CodeNo.	Name of the Subject	Category	Credits	LectHrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 IT 4101	Distributed Systems	ES	3	3	1	-	30	70	100
B17 IT4102	Mobile Computing	ES	3	3	1	-	30	70	100
B17 BS 4101	Managerial Economicsand Financial Accountancy	BS	3	3	1	-	30	70	100
#ELE-I	Elective-I	ES	3	3	1	-	30	70	100
#ELE-II	Elective-II	ES	3	3	1	-	30	70	100
B17 IT 4111	Mobile Computing Lab	ES	2	-	-	3	50	50	100
B17 IT 4112	Cryptography and Network Security Lab	ES	2	-	-	3	50	50	100
Total			19	15	5	6	250	450	700

	B17 IT 4103	Bigdata Analytics
#ELE-I	B17 IT 4104	Information Retrieval System
	B17 IT 4105	Internet of Things
	B17 IT 4106	Multimedia Programming
#ELE-II	B17 IT 4107	Embedded Systems
	B17 IT 4108	Software Project Management
	B17 IT 4109	Machine Learning
	B17 IT 4110	Decision Support Systems

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Regulation: R17				IV / IV - B.Tech. II - Semester						
INFORMATION TECHNOLOGY (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
CodeNo.	Name of the Subject	Category	Credits	Lect. Hrs	Tut. Hrs	Lab Hrs	Int. Marks	Ext. Marks	Tot. Marks	
B17 BS4201	Management and Organisational Behaviour	BS	3	3	1	--	30	70	100	
#ELE-III	Elective-III	ES	3	3	1	--	30	70	100	
B17 IT4205	Data Mining Lab	ES	2	--	--	3	50	50	100	
B17 IT4206	Seminar	ES	2	--	--	--	50	--	50	
B17 IT4207	Project work	ES	10	--	--	3	60	140	200	
Total			**20**	**6**	**2**	**6**	**220**	**330**	**550**	

#ELE-III	B17 IT 4201	Cloud Computing
	B17 IT 4202	Cyber Security
	B17 IT 4203	Artificial Neural Networks
	B17 IT 4204	Software Quality Assurance

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Regulation: R17				III / IV - B.Tech. II- Semester					
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)									
Code No.	Name of the Subject	Ca	Cr	L	T	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 ME 3201	Industrial Engineering& Management	ES	3	3	1	--	30	70	100
B17 ME 3202	Control Systems	ES	3	3	1	--	30	70	100
B17 ME 3203	Dynamics of Machines	ES	3	3	1	--	30	70	100
B17 ME 3204	Machine Design	ES	3	3	1	--	30	70	100
# OE	Open Elective	ES	3	3	1	--	30	70	100
B17 ME 3207	Computer Aided Design	ES	3	3	1	--	30	70	100
B17 ME 3208	Industrial Engineering Lab	ES	2	--	--	3	50	50	100
B17 ME 3209	Fluid Mechanics And Machinery Lab	ES	2	--	--	3	50	50	100
B17 BS 3201	Employability Skills	BS	1	--	3	--	30	70	100
B17 BS 3202	Basic Coding	BS	1	--	--	3	50	50	100
Total			24	18	9	9	360	640	1000

# OE (Open Elective)	B17 BS 3207	Entrepreneurship
	B17 CS 3213	Database Management System
	B17 CE 3207	Waste Water Management
	B17 CS 3210	Computer Graphics
	B17 ME 3205	Industrial Robotics
	B17 ME 3206	Green Engineering Systems

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Regulation: R17							IV/ IV - B.Tech. I- Semester			
MECHANICAL ENGINEERING (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2017-18 admitted Batch onwards)										
Code No.	Name of the Subject	Ca	Cr	L	T	Lab Hrs	Internal Marks	External Marks	Total Marks	
B17 ME4101	Heat Transfer	ES	3	3	1	--	30	70	100	
B17 ME4102	Computer Aided Manufacturing	ES	3	3	1	--	30	70	100	
B17 ME4103	Mechatronics	ES	3	3	1	--	30	70	100	
# ELE-I	Elective-I	ES	3	3	1	--	30	70	100	
# ELE-II	Elective-II	ES	3	3	1	--	30	70	100	
B17 ME4110	Heat Transfer Lab	ES	2	--	--	3	50	50	100	
B17 ME4111	CAD Lab	ES	2	--	--	3	50	50	100	
Total			19	15	5	6	250	450	700	

	Code No.	Course
#ELE-I	B17 ME 4104	Finite Element Analysis
	B17 ME 4105	Automation in Manufacturing
	B17 ME 4106	Quality Control and Assurance
#ELE-II	B17 ME 4107	Project Management
	B17 ME 4108	Tool Design
	B17 ME 4109	Refrigeration & Air Conditioning

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Regulation: R17	IV/ IV - B.Tech. II- Semester

MECHANICAL ENGINEERING
(under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION & EXAMINATION
(With effect from 2017-18 admitted Batch onwards)

Code No.	Name of the Subject	Ca	Cr	L	T	Lab Hrs	Internal Marks	External Marks	Total Marks
B17 ME4201	Production Planning &Control	ES	3	3	1	--	30	70	100
# ELE-III	Elective-III	ES	3	3	1	--	30	70	100
B17 ME4205	CAM Lab	ES	2	--	--	3	50	50	100
B17 ME4206	Seminar	ES	2	--	--	--	50	--	50
B17 ME4207	Project Work	ES	10	--	--	3	60	140	200
Total			**20**	**6**	**2**	**6**	**220**	**330**	**550**

# ELE-III	Code No.	Course
	B17 ME 4202	Power Plant Engineering
	B17 ME 4203	Automobile Engineering and Hybrid Vehicles
	B17 ME 4204	Additive Manufacturing

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Regulation: R20						I / IV - B. Tech. II - Semester				
ARTIFICIAL INTELLIGENCE & DATA SCIENCE (under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2020-21 admitted Batch onwards)										
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
B20 BS1201	Mathematics-II	BS	3	3	0	0	30	70	100
B20 BS1203	Applied Chemistry	BS	3	3	0	0	30	70	100
B20 IT1201	Digital Logic Design	ES	3	3	0	0	30	70	100
B20 IT1202	Object Oriented Programming through C++	ES	3	3	0	0	30	70	100
B20 EE1203	Principles of Electrical and Electronics Engineering	ES	3	3	0	0	30	70	100
B20 BS1208	Applied Chemistry Lab	BS	1.5	0	0	3	15	35	50
B20 HS1202	Communication SkillsLab	HS	1.5	0	0	3	15	35	50
B20 IT1203	Object Oriented Programming through C++Lab	ES	1.5	0	0	3	15	35	50
B20 MC1201	Environmental Science	MC	0	2	0	0	--	--	--
B20 MC1203	National Service Scheme(NSS)	MC	0	0	0	2	--	--	--
	TOTAL		19.5	17	0	11	195	455	650

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Regulation: R20							I / IV - B.Tech. II - Semester		
COMPUTER SCIENCE & BUSINESS SYSTEM									
(under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION &EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 BS1205	Linear Algebra	BS	3	3	0	0	30	70	100
B20 BS1206	Statistical Methods	BS	3	3	0	0	30	70	100
B20 EC1201*	Principles of Electronics Engineering	ES	3	2	0	0	30	70	100
				0	0	2	15	35	50
B20 CB1201	Data Structures and Algorithms	ES	3	3	0	0	30	70	100
B20 HS1201	Fundamentals of Economics	HS	3	3	0	0	30	70	100
B20 BS1209	Statistical Methods Lab	BS	1.5	0	0	3	15	35	50
B20 CB1202	Data Structures and Algorithms Lab	EC	1.5	0	0	3	15	35	50
B20 HS1203	Business Communication& Value Science – II	HS	1.5	0	0	3	15	35	50
B20 MC1201	Environmental Science	MC	0	2	0	0	--	--	--
B20 MC1203	National Service Scheme (NSS)	MC	0	0	0	2	--	--	--
	TOTAL		19.5	16	0	13	210	490	700

Note: *- Integrated course and its evaluation guide lines are mentioned in the Syllabus

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Regulation: R19			I / II - M.Tech. I - Semester							
STRUCTURAL ENGINEERING **(Under Choice Based Credit System / Elective Course System)**										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)										
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
M19 ST1101	Theory of Elasticity	PC	3	3	0	0	25	75	100
M19 ST1102	Structural Dynamics	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19 ST1109	Advanced Concrete Technology	PC	2	2	0	0	25	75	100
M19ST1110	Advanced Concrete Laboratory	PC	2	0	0	4	25	75	100
M19 ST1111	Advanced Structural Engineering Laboratory	PC	2	0	0	4	25	75	100
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0
TOTAL			**18**	**16**	**0**	**8**	**175**	**525**	**700**

	Code	Course		Code	Course
#PE-I	M19ST1103	Matrix Methods of Structures		M19AC0001	English for Research Paper Writing
	M19ST1104	Analytical & Numerical Methods for Structural Engineering	**#AC1 & 2**	M19AC0002	Disaster Management
	M19ST1105	Design of RCC Foundations		M19AC0003	Sanskrit for Technical Knowledge
				M19AC0004	Value Education
				M19AC0005	Constitution of India
#PE-II	M19ST1106	Bridge Engineering		M19AC0006	Pedagogy Studies
	M19ST1107	Repair and Rehabilitation of Structures		M19AC0007	Stress Management by Yoga
	M19ST1108	Advanced Reinforced Concrete Design		M19AC0008	Personality Development through Life Enlightenment Skills.

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STRUCTURAL ENGINEERING (Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19ST1201	Finite Element Methods in Structural Engineering	PC	3	3	- -	- -	25	75	100
M19ST1202	Theory of Plates and shells	PC	3	3	- -	- -	25	75	100
#PE-III	Program Elective-III	PE	3	3	- -	- -	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	--	--	25	75	100
M19ST1209	Computer Aided Design Laboratory	PC	2	--	--	4	25	75	100
M19ST1210	Design of Structures Laboratory	PC	2	--	--	4	2	75	100
M19ST1211	Mini Project With Seminar	PC	2	--	--	4	100	--	100
M19AC0005	Audit Course-2	AC	--	2	--	--	--	--	--
		TOTAL	**18**	**14**	**0**	**12**	**250**	**450**	**700**

	Code	Course
#PE-III	M19ST1203	Stability of Structures
	M19ST1204	Advanced Steel Design
	M19ST1205	Analysis of Off shore Structures
#PE-IV	M19ST1206	Earth quake Resistant Design of Buildings
	M19ST1207	Structural Optimization Techniques
	M19ST1208	Earth Retaining Structures

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STRUCTURAL ENGINEERING **(Under Choice Based Credit System / Elective Course System)**									
SCHEME OF INSTRUCTION & **EXAMINATION** (With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
#PE-V/MOOCS	Program Elective-V/MOOCS	PE	3	3	--	--	25	75	100
#OE-I/MOOCS	Open Elective-I/MOOCS	OE	3	3	--	--	25	75	100
M19ST2106	Dissertation-I /Industrial Project	PR	10	0	--	20	50	50	100
TOTAL			16	6	--	20	200	200	300

	Course Code	Course
#PE-V/MOOCS	M19ST2101	Design of Pre-stressed Concrete Structures
	M19ST2102	Reliability Analysis and Design
	M19ST2103	Industrial Structures
	M19 ST 2104(MOOCS-I)	Students Going for Industrial Project/Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a12weeks'course duration in PG level with 3credits,but The chosen subject should not be covered in their M. Tech Course
#OE-I/MOOCS	#OE-I	Students have to choose one open elective course offered by departments other than the parent department. List of open Electives offered by other departments are enclosed.
	M19 ST 2105(MOOCS-II)	Students Going for Industrial Project/Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a12weeks'course duration in PG level with 3credits,but The chosen subject should not be covered in their M. Tech Course

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COMPUTER SCIENCE & TECHNOLOGY

(Under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION & EXAMINATION

(With effect from 2019-20 admitted Batch onwards)

Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19 CST1101	Mathematical Foundations of Computer Science	PC	3	3	0	0	25	75	100
M19 CST 1102	Advanced Data Structures	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19 RD 1101	Research Methodology and IPR	CC	2	2	0	0	25	75	100
M19 CST 1113	Advanced Data Structures Lab	PC	2	0	0	4	25	75	100
M19 CST 1114	Computing Lab	PC	2	0	0	4	25	75	100
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0
TOTAL			**18**	**16**	**0**	**8**	**175**	**525**	**700**

	Code	Course		Code	Course
#PE-I	M19CST1103	Artificial Intelligence	**# AC 1 & 2**	M19AC0001	English for Research Paper Writing
	M19CST1104	Cloud Computing		M19AC0002	Disaster Management
	M19CST1105	Digital Image Processing		M19AC0003	Sanskrit for Technical Knowledge
	M19CST1106	Advanced Operating System		M19AC0004	Value Education
	M19CST1107	Optimization Techniques		M19AC0005	Constitution of India
#PE-II	M19CST1108	Bigdata Analytics		M19AC0006	Pedagogy Studies
	M19CST1109	Applied Cryptography		M19AC0007	Stress Management by Yoga
	M19CST1110	Advanced Computer Networks		M19AC0008	Personality Development throughLife Enlightenment Skills.
	M19CST1111	Embedded Computing			
	M19CST1112	Parallel Computer Architecture			

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COMPUTER SCIENCE & TECHNOLOGY
(Under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION & EXAMINATION
(With effect from 2019-20 admitted Batch onwards)

Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19 CST 1201	Advanced Algorithms	PC	3	3	0	0	25	75	100
M19 CST 1202	Machine Learning	PC	3	3	0	0	25	75	100
#PE-III	Program Elective-III	PE	3	3	0	0	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	0	0	25	75	100
M19 CST 1213	Advance Algorithm Lab	PC	2	0	0	4	25	75	100
M19 CST 1214	Machine Learning Lab	PC	2	0	0	4	25	75	100
M19 CST 1215	Mini Project with Seminar	MP	2	0	0	4	100	--	100
#AC-2	Audit Course-2*	AC	0	2	0	0	0	0	--
	Total		18	14	0	12	250	450	700

	Code	Course
#PE-III	M19CST1203	Soft Computing
	M19CST1204	Advanced Network Principles and Protocols
	M19CST1205	Internet of Things
	M19CST1206	Open Source Programming
	M19CST1207	Pattern Recognition
#PE-IV	M19CST1208	Natural Language Processing
	M19CST1209	Full Stack Technologies
	M19CST1210	Parallel Algorithms
	M19CST1211	Object Oriented Software Engineering
	M19CST1212	Distributed Database

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COMPUTER SCIENCE & TECHNOLOGY									
(Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
#PE-V/ MOOCS	Program Elective-V	PE	3	3	0	0	25	75	100
#OE-I/ MOOCS	Open Elective-I	OE	3	3	0	0	25	75	100
M19CST 2105	**Dissertation-I / Industrial Project**	PR	10	0	0	20	50	50	100
TOTAL			16	6	0	20	100	200	300

	Code	Course
#PE-V	M19CST2101	Deep Learning
	M19CST2102	Ethical Hacking
	M19CST2103 (MOOCS-I)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course
#OE-I	OE	Students have to choose one open elective course offered by departments other than the CSE & IT departments. List of open Electives offered by other departments are enclosed.
	M19CST2104(MOOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subjectshould not be covered in their M. Tech Course

OPEN ELECTIVES OFFERED TO OTHER DEPARTMENTS	
Code	**Course**
M19 CST 2106	Python Programming
M19 CST 2107	Artificial Intelligence
M19 CST 2108	Advanced Data structures

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Regulation: R19					II / II - M.Tech. II - Semester					
COMPUTER SCIENCE & TECHNOLOGY (Under Choice Based Credit System / Elective Course System)										
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)										
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19CST2201	**Dissertation-II / Industrial Project**	PR	16	0	0	32	--	100	100

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Estd:1980

Regulation: R19						I / II - M.Tech. I - Semester			
COMMUNICATION SYSTEMS									
(Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION									
(With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19CS1101	Digital Data Communications	PC	3	3	0	0	25	75	100
M19CS1102	Advanced Digital Signal Processing	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19RD1101	Research Methodology and IPR	CC	2	2	0	0	25	75	100
M19CS1109	Data CommunicationsLab	PC	2	0	0	4	25	75	100
M19CS1110	Advanced Digital Signal Processing Lab	PC	2	0	0	4	25	75	100
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0
Total			18	16	0	8	175	525	700

	Code	Course		Code	Course
#PE-I	M19CS1103	Radar Signal Processing		M19AC0001	English for Research Paper Writing
	M19CS1104	RF Circuit Design		M19AC0002	Disaster Management
	M19CS1105	Advanced Computer Networks	# AC 1 & 2	M19AC0003	Sanskrit for Technical Knowledge
#PE-II	M19CS1106	Wireless LANs and PANs		M19AC0004	Value Education
	M19CS1107	Mobile Computing Technologies		M19AC0005	Constitution of India
	M19CS1108	Network Security & Cryptography		M19AC0006	Pedagogy Studies
				M19AC0007	Stress Management by Yoga
				M19AC0008	Personality Development through Life Enlightenment Skills.

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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)
(Affiliated to JNTUK, Kakinada),(Recognized by AICTE, NewDelhi) Accredited by NAAC with 'A' Grade
UG Programmes CE, CSE, ECE, EEE, IT & ME are Accredited by NBA
Estd:1980   ChinnaAmiram, Bhimavaram-534204. (AP)

Regulation: R19		I / I - M.Tech. II - Semester							
COMMUNICATION SYSTEMS (Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
M19CS1201	Wireless Communications and Networks	PC	3	3	0	0	25	75	100
M19CS1202	Image and Video Processing	PC	3	3	0	0	25	75	100
#PE-III	Elective-III	PE	3	3	0	0	25	75	100
#PE-IV	Elective-IV	PE	3	3	0	0	25	75	100
M19CS1209	Advanced Communications Lab	PC	2	0	0	4	25	75	100
M19CS1210	Advanced Digital Image and Video Processing Laboratory	PC	2	0	0	4	25	75	100
M19CS1211	Mini Project with Seminar	PC	2	0	0	4	100	0	100
#AC-2	Audit Course 2	AC	0	2	0	0	0	0	0
Total			18	14	0	12	250	450	700

	Code	Course
#PE-III	M19 CS 1203	Soft Computing Techniques
	M19 CS 1204	Internet Protocols
	M19 CS 1205	Cyber Security
#PE-IV	M19 CS 1206	Optical Networks
	M19 CS 1207	Digital Signal Processors and Architectures
	M19 CS 1208	Radio Navigational Aids

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Estd:1980

Regulation: R19		II / II - M.Tech. I - Semester						
COMMUNICATION SYSTEMS (Under Choice Based Credit System / Elective Course System)								
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)								
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
#PE-V	Program Elective	PE	3	3	--	--	25	75	100
#OE-I	Open Elective	OE	3	3	--	--	25	75	100
M19CS2106	**Dissertation-I /Industrial Project**	PR	10	--	---	20	50	50	100
Total			16	6	0	20	100	200	300

	Code	Course
#PE-V/ MOOCS	M19CS2101	Detection and Estimation Theory
	M19CS2102	Coding Theory and Applications
	M19CS2103	Software Defined Radio
	M19CS2104 (MOOCS-I)	Students Going for Industrial Project Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course
#OE-I/ MOOCS	#OE-I	Students have to choose one open elective course offered by departments other than the parent department. List of open Electives offered by other departments are enclosed.
	M19CS2105 (MOOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course

OPEN ELECTIVES OFFERED TO OTHER DEPARTMENTS	
Code	**Course**
M19CS2107	Signals and systems
M19CS2108	Principles of Communication
M19CS2109	Image and video Processing

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Estd:1980

Regulation: R19		I / II - M.Tech. I - Semester							
ELECTRIC AND ELECTRONICS ENGINEERING (POWER SYSTEM&AUTOMATION)									
(Under Choice Based Credit System / Elective CourseSystem)									
SCHEME OF INSTRUCTION &EXAMINATION									
(With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19 PS 1101	Advanced Power System operation andcontrol	PC	3	3	0	0	25	75	100
M19 PS 1102	Power system dynamics and stablity	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19RD 1101	Research Rethodology and IPR	CC	2	2	0	0	25	75	100
M19 PS 1109	Power System Simulation Laboratory-I	PC	2	0	0	4	25	75	100
M19 PS 1110	Power system Laboratory	PC	2	0	0	4	25	75	100
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0
TOTAL			18	16	0	8	175	525	700

	M19 PS1103	Electric Power Distribution System
#PE-I	M19 PS1104	HVDC Transmission
	M19 PS1105	EHVAC Transmission
	M19 PS1106	Artificial Intelligence Techniques
#PE-II	M19 PS1107	Optimization Techniques
	M19 PS1108	Advanced Digital Signal Processing
	M19AC0001	English for Research Paper Writing
	M19AC0002	Disaster Management
	M19AC0003	Sanskrit for Technical Knowledge
#AC-1 & 2	M19AC0004	Value Education
	M19AC0005	Constitution of India
	M19AC0006	Pedagogy Studies
	M19AC0007	Stress Management by Yoga
	M19AC0008	Personality Development through Life Enlightenment Skills.

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Estd:1980

Regulation: R19	I / II - M.Tech. II - Semester

ELECTRICAL AND ELECTRONICS ENGINEERING (POWER SYSTEM & AUTOMATION)
(Under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION & EXAMINATION
(With effect from 2019-20 admitted Batch onwards)

Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19 PS1201	Real Time Control of Power Systems	PC	3	3	0	0	25	75	100
M19PS 1202	Advanced Power Electronic Converters	PC	3	3	0	0	25	75	100
#PE-III	Program Elective-III	PE	3	3	0	0	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	0	0	25	75	100
M19PS 1209	Power System Simulation Laboratory-II	PC	2	0	0	4	25	75	100
M19PS 1210	Power Electronics for Renewable Integration Laboratory	PC	2	0	0	4	25	75	100
M19PS 1211	Mini Project with Seminar	MP	2	0	0	4	100	--	100
#AC-2	Audit Course-2*	AC	0	2	0	0	0	0	--
TOTAL			18	14	0	12	250	450	700

	Code	Course
#PE-III	M19 PS1203	Power Quality Issues and Remedies
	M19 PS1204	Digital Protection of Power Systems
	M19 PS1205	Power System Transients
#PE-IV	M19 PS1206	Smart Grids Technologies
	M19 PS1207	Renewable Energy Systems
	M19 PS1208	Advanced Control Theory

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Estd:1980

Regulation: R19		II / II - M.Tech. I - Semester							
ELECTRICAL AND ELECTRONICS ENGINEERING **(POWER SYSTEM &AUTOMATION)** **(Under Choice Based Credit System / Elective Course System)**									
SCHEME OF INSTRUCTION & EXAMINATION **(With effect from 2019-20 admitted Batch onwards)**									
Course Code	**Course Name**	**Ca**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
#PE V	Program Elective V	PE	3	3	0	0	25	75	100
#Open Elective	Open Elective	OE	3	3	0	0	25	75	100
M19PS2106	Dissertation-I / Industrial Project	PR	10	0	0	20	50	50	100
TOTAL			16	6	0	20	100	200	300

	Course Code	Course
#PE-V/ MOOCS	M19PS2101	Power System Automation.
	M19PS2102	Restructured Power System
	M19PS2103	Flexible AC Transmission systems
	M19 PS 2104 (MOOCS-I)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course
#OE-I/ MOOCS	#OE-I	Students have to choose one open elective course offered by departments other than the parent department. List of open Electives offered by other departments are enclosed.
	M19 PS 2105 (MOOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course

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Estd:1980

Regulation: R19		I / II - M.Tech. I - Semester							
M.TECH (INFORMATION TECHNOLOGY) **(Under Choice Based Credit System / Elective Course System)**									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
M19 IT1101	Discrete Mathematical Structures	PC	3	3	0	0	25	75	100
M19 IT1102	Advanced Data Structures	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19 RD 1101	Research Methodology and IPR	CC	2	2	0	0	25	75	100
M19 IT1113	Advanced Data Structures Lab	PC	2	0	0	4	25	75	100
M19 IT1114	Computing Lab	PC	2	0	0	4	25	75	100
#AC-1	Audit course -1	AC	0	2	0	0	0	0	0
TOTAL			**18**	**16**	**0**	**8**	**175**	**525**	**700**

	Code	Course		Code	Course
#PE-I	M19IT1103	Artificial Intelligence	**#AC 1 & 2**	M19AC0001	English for Research Paper Writing
	M19IT1104	Service Oriented Architectures And Web Security		M19AC0002	Disaster Management
	M19IT1105	Internet of Things		M19AC0003	Sanskrit for Technical Knowledge
	M19IT1106	Optimization Techniques		M19AC0004	Value Education
	M19IT1107	Parallel Computer Architecture		M19AC0005	Constitution of India
#PE-II	M19IT1108	Bigdata Analytics		M19AC0006	Pedagogy Studies
	M19IT1109	Principles Of Cryptography		M19AC0007	Stress Management by Yoga
	M19IT1110	Cluster And Grid Computing		M19AC0008	Personality Development throughLife Enlightenment Skills.
	M19IT1111	Imaging and Multimedia Systems			
	M19IT1112	Advanced Graph Theory			

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Regulation: R19		I / II - M.Tech. II - Semester							
M.TECH (INFORMATION TECHNOLOGY) (Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	Course Name	Ca	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19IT1201	Advanced Algorithms	PC	3	3	0	0	25	75	100
M19IT1202	Full Stack Technologies	PC	3	3	0	0	25	75	100
#PE-III	Program Elective-III	PE	3	3	0	0	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	0	0	25	75	100
M19IT1213	Advance Algorithms Lab	PC	2	0	0	4	25	75	100
M19IT1214	Full Stack Technologies Lab	PC	2	0	0	4	25	75	100
M19IT1215	Mini Project with Seminar	MP	2	0	0	4	100	--	100
#AC-2	Audit course -2*	AC	0	2	0	0	0	0	0
TOTAL			18	14	0	12	250	450	700

	Code	Course
#PE-III	M19IT1203	Machine Learning
	M19IT1204	DevOps
	M19IT1205	Advanced Network Principles and Protocols
	M19IT1206	Distributed Computing
	M19IT1207	Social Network Analytics
#PE-IV	M19IT1208	Digital Image Processing
	M19IT1209	Block Chain Technologies
	M19IT1210	Data Science
	M19IT1211	Soft Computing
	M19IT1212	Natural Language Processing

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Estd:1980

Regulation: R19		II/ II - M.Tech. I - Semester							
M.TECH (INFORMATION TECHNOLOGY)									
(Under Choice Based Credit System / Elective Course System)									
SCHEME OF INSTRUCTION & EXAMINATION									
(With effect from 2019-20 admitted Batch onwards)									
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
#PE-V/ MOOCS	Program Elective-V	PE	3	3	--	--	25	75	100
#OE-I/ MOOCS	Open Elective-I	OE	3	3	--	--	25	75	100
M19IT2107	**Dissertation-I /Industrial Project#**	PR	10	--	--	20	50	50	100
TOTAL			**16**	**6**	**--**	**20**	**100**	**200**	**300**

	Code	Course							
	M19IT2101	Deep Learning							
	M19IT2102	Embedded Computing							
#PE-	M19IT2103	Ethical Hacking							

		Code	Course
		M19IT1203	Machine Learning
#PE-III -1)		M19IT1204	DevOps
		subject should not be covered in their M. Tech Course	
#OE-I/ MOOCS	#OE-I	Students have to choose one open elective course offered by departments other than the IT & CSE departments. List of open Electives offered by other departments are enclosed.	
	M19IT2106 (MOOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but thechosen subject should not be covered in their M. Tech Course	

OPEN ELECTIVES OFFERED TO OTHER DEPARTMENTS

Code	Course
M19IT2108	Web Technologies
M19IT2109	Internet of Things
M19IT2110	Machine Learning

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Estd:1980

Regulation: R19	I / II - M.Tech. I - Semester

MECHANICAL ENGINEERING (CAD/CAM)
(Under Choice Based Credit System / Elective Course System)

SCHEME OF INSTRUCTION & EXAMINATION
(With effect from 2019-20 admitted Batch onwards)

Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19CAD 1101	Geometric Modeling	PC	3	3	0	0	25	75	100
M19CAD 1102	Computer Aided Manufacturing	PC	3	3	0	0	25	75	100
#PE-I	Program Elective-I	PE	3	3	0	0	25	75	100
#PE-II	Program Elective-II	PE	3	3	0	0	25	75	100
M19CAD 1109	Advanced CAD Lab	PC	2	0	0	4	25	75	100
M19CAD 1110	Advanced Manufacturing Lab	PC	2	0	0	4	25	75	100
M19 RD 1101	Research Methodology and IPR	RD	2	2	0	0	25	75	100
M19 AC 1109	Writing Skills for Scientific Communication	AC	0	2	0	0	0	0	0
Total			**18**	**16**	**0**	**8**	**175**	**525**	**700**

	Course Code	Course
#PE-I	M19CAD 1103	Computational Methods in Engineering
	M19CAD 1104	Material Technology
	M19CAD 1105	Mechanical Vibrations
#PE-II	M19CAD 1106	Mechatronics
	M19CAD 1107	Industrial Robotics
	M19CAD 1108	Modelling and Simulation of Manufacturing Systems

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MECHANICAL ENGINEERING(CAD/CAM)
(Under Choice Based Credit System / Elective Course System)
SCHEME OF INSTRUCTION & EXAMINATION
(With effect from 2019-20 admitted Batch onwards)

Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
M19CAD 1201	Theory of Elasticity and Plasticity	PC	3	3	0	0	25	75	100
M19CAD 1202	Advanced Manufacturing Processes	PC	3	3	0	0	25	75	100
#PE-III	Program Elective-III	PE	3	3	0	0	25	75	100
#PE-IV	Program Elective-IV	PE	3	3	0	0	25	75	100
M19CAD 1209	Computer Aided Machining Lab	PC	2	0	0	4	25	75	100
M19CAD 1210	Robotics Lab	PC	2	0	0	4	25	75	100
M19CAD 1211	Mini Project With Seminar	MP	2	2	0	4	100	--	100
#AC	Audit Course	AC	0	2	0	0	0	0	0
Total			18	14	18	16	0	12	250

	Course Code	Course
#PE-III	M19CAD 1203	Advanced Finite Element Methods
	M19CAD 1204	Fracture Mechanics
	M19CAD 1205	Product Design and Development
#PE-IV	M19CAD 1206	Materials Characterization Techniques
	M19CAD 1207	Optimization & Reliability
	M19CAD 1208	Additive Manufacturing

	Course Code	Course
#AC	M19AC 0005	Constitution of India
	M19AC 0006	Pedagogy studies
	M19AC 0008	Personality development through life enlightenment skills

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MECHANICAL ENGINEERING(CAD/CAM) **(Under Choice Based Credit System / Elective Course System)**									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2019-20 admitted Batch onwards)									
Course Code	**Course Name**	**Category**	**Cr.**	**L**	**T**	**P**	**Int. Marks**	**Ext. Marks**	**Total Marks**
#PE-V/ MOOCS	Program Elective-V	PE	3	3	0	0	25	75	100
#OE/MOOCS	Open Elective	OE	3	3	0	0	25	75	100
M19CAD2106	**Dissertation-I / Industrial Project**	PR	10	0	0	20	50	50	100
TOTAL			16	6	0	20	100	200	300

	Course Code	**Course**
#PE-V/ MOOCS	M19CAD 2101	Non Destructive Evaluation
	M19CAD 2102	Quality Engineering
	M19CAD 2103	Green Manufacturing
	M19CAD 2104 (MOOCS-I)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course
#OE/ MOOCS	#OE	Students have to choose one open elective course offered by departments other than the parent department. List of open Electives offered by other departments are enclosed.
	M19CAD 2105 (MOOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOOCS. Students can also choose SWAYAM or NPTEL with a 12 weeks' course duration in PG level with 3 credits, but the chosen subject should not be covered in their M. Tech Course

OPEN ELECTIVES OFFERED TO OTHER DEPARTMENTS	
M19CAD 2107	Operations Research
M19CAD 2108	Nano Technology
M19CAD 2109	Product Design & Manufacturing

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