



Estd:1980

**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
Chinna Amiram, Bhimavaram-534204. (AP)

Minor Degree Courses offered by various Departments

Regulation: R20		CIVIL ENGINEERING (Minor)							
(Applicable for AIDS, CSBS,CSE,ECE,EEE, IT & ME)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 CEM 001	Surveying	II-II	4	3	1	0	30	70	100
B20 CEM 002	Fluid Mechanics	III-I	4	3	1	0	30	70	100
B20 CEM 003	Soil Mechanics	III-II	4	3	1	0	30	70	100
B20 CEM 004	Environmental Engineering	IV-I	4	3	1	0	30	70	100
B20 CEM 005	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 CEM 006	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any CE related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester**

Regulation: R20		COMPUTER SCIENCE & ENGINEERING (Minor)							
(Applicable for CE,EEE & ME)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 CSM 001	Data Structures	II-II	4	3	1	0	30	70	100
B20 CSM 002	Operating Systems	III-I	4	3	1	0	30	70	100
B20 CSM 003	Database Management System	III-II	4	3	1	0	30	70	100
B20 CSM 004	Object oriented Programming through C++	IV-I	4	3	1	0	30	70	100
B20 CSM 006	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 CSM 007	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any CSE related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester**

Regulation: R20		COMPUTER SCIENCE & ENGINEERING (Minor)							
(Applicable for ECE)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 CSM 001	Data Structures	II-II	4	3	1	0	30	70	100
B20 CSM 002	Operating Systems	III-I	4	3	1	0	30	70	100
B20 CSM 003	Database Management System	III-II	4	3	1	0	30	70	100
B20 CSM 005	Object oriented Programming through Java	IV-I	4	3	1	0	30	70	100
B20 CSM 006	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 CSM 007	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any CSE & IT related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester**

Regulation: R20		ELECTRONICS & COMMUNICATION (Minor)							
(Applicable for AIDS, CSBS, CE,CSE, EEE, IT & ME)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 ECM 001	Basic Electronics	II-II	4	3	1	0	30	70	100
B20 ECM 002	Signals and Systems	III-I	4	3	1	0	30	70	100
B20 ECM 003	Principles of Communications	III-II	4	3	1	0	30	70	100
B20 ECM 004	VLSI Technology	IV-I	4	3	1	0	30	70	100
B20 ECM 005	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 ECM 006	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any ECE related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester**

Regulation: R20		ELECTRICAL & ELECTRONICS ENGINEERING (Minor)							
(Applicable for AIDS, CSBS, CE,CSE, ECE, IT & ME)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 EEM 001	Electric Circuit Analysis	II-II	4	3	1	0	30	70	100
B20 EEM 002	Electrical Measurements	III-I	4	3	1	0	30	70	100
B20 EEM 003	Electrical Power Generation, Transmission & Distribution	III-II	4	3	1	0	30	70	100
B20 EEM 004	Power Electronics	IV-I	4	3	1	0	30	70	100
B20 EEM 005	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 EEM 006	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any ECE related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester**

Regulation: R20		INFORMATION TECHNOLOGY (Minor)							
(Applicable for CE,ECE,EEE & ME)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 ITM 001	Data Structures & Algorithms	II-II	4	3	1	--	30	70	100
	Java Programming								
	Database Management Systems								
	Software Engineering								
B20 ITM 002	Multimedia Technology	III-I	4	3	1	--	30	70	100
	Web Technology								
	Operating Systems								
	Python Programming								
B20 ITM 003	Computer Architecture	III-II	4	3	1	--	30	70	100
	R Programming								
	Computer Networks								
	Augmented Reality & Virtual Reality								
B20 ITM 004	Cryptography and Network Security	IV-I	4	3	1	--	30	70	100
	Mobile Application Development								
	Cloud Computing								
	IT Infra Management								
B20 ITM 005	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 ITM 006	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any CSE & IT related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester.**

Regulation: R20		MECHANICAL (Minor)							
(Applicable for AIDS, CSBS, CSE, ECE, EEE & IT)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 MEM 001	Engineering Mechanics and Strength of Materials (For all Branches except CIVIL)	II-II	4	3	1	0	30	70	100
B20 MEM 003	Thermal Engineering	III-I	4	3	1	0	30	70	100
B20 MEM 004	Production Technology	III-II	4	3	1	0	30	70	100
B20 MEM 005	Industrial Engineering & Management	IV-I	4	3	1	0	30	70	100
B20 MEM 006	*MOOCs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 MEM 007	*MOOCs-II	II-II to IV-II	2	--	--	--	30	70	100

*** Two MOOCs courses @ 2 Credits each (Any ME related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester.**

Regulation: R20		MECHANICAL (Minor)							
(Applicable for CE)									
SCHEME OF INSTRUCTION & EXAMINATION (With effect from 2020-21 admitted Batch onwards)									
Course Code	Course Name	Year/ Sem	Cr	L	T	P	Int. Marks	Ext. Marks	Total Marks
B20 MEM C02	Engineering Materials	II-II	4	3	1	0	30	70	100
B20 MEM 003	Thermal Engineering	III-I	4	3	1	0	30	70	100
B20 MEM 004	Production Technology	III-II	4	3	1	0	30	70	100
B20 MEM 005	Industrial Engineering & Management	IV-I	4	3	1	0	30	70	100
B20 MEM 006	Moocs-I	II-II to IV-II	2	--	--	--	30	70	100
B20 MEM 007	Moocs-II	II-II to IV-II	2	--	--	--	30	70	100
TOTAL			20	12	4	0	180	420	600

*** Two MOOCs courses @ 2 Credits each (Any ME related Program Core subjects from NPTEL/SWAYAM course of 8 weeks (2 Credits) other than the courses offered needs to be taken. These courses should be completed between II Year II Semester to IV Year II Semester.**