



**CIVIL
ENGINEERING**



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(A)
CHINNA AMIRAM :: BHIMAVARAM-534204
DEPARTMENT OF CIVIL ENGINEERING

Dt: 24-08-2020

CIRCULAR

This is to inform you that the Department of Civil Engineering will convene a meeting on 05-09-2020 at 11.00 AM in Room No. R105(HOD Office) virtually using zoom platform. In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

1. Approval of Scheme and syllabus of the second year courses B. Tech (R19), Fourth year courses B. Tech (R17) & M. Tech (R19) First year 2nd semester and second year.
2. Approval of schemes for B. tech (R19) 3rd and 4th years.
3. Any other concerns with the permission of the Chair.

C.C to:

1. The Members of Board of studies
2. Office file

H. Jagapathi Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

Abdullah
Head of the Department

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAAMIRAM
BHIMAVARAM-534 204.



SAGI RAMA KRISNAM RAJU ENGINEERING COLLEGE
(AUTONOMOUS)

BOARD OF STUDIES MEETING

Date: Sep 05, 2020

The Board of Studies meeting is conducted in virtual mode (using zoom platform) was held on 05-09-2020 at 11.00 A.M. to discuss the following items.

AGENDA

1. Approval of Scheme and Syllabus for the Second year courses B.Tech (R19), Fourth Year course B.Tech (R17) & M.Tech (R19) First year Second semester and Second year
2. Approval of schemes for B.Tech (R19) 3rd and 4th years
3. Any other item with the permission of the chair.

H. Nagapalli Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

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MINUTES

- ❖ Discussion and finalization of course structure and syllabus of B.Tech-4th year(R17) and B.Tech 2nd year(R19). The members also finalized M.Tech 1st year 2nd SEM and 2nd year(R19) curriculum
- ❖ Resolved to introduce a course that gives awareness of the constitution so that the students will acquire basic fundamentals in their rights and duties
- ❖ Resolved to include seminar in B.Tech 4th year(R17) in addition to project work in the curriculum so as to enhance the skills of the students
- ❖ Resolved to include a course on ethical and human values in addition to regular curriculum in B.Tech
- ❖ Discussed to include a mini project with seminar in M.Tech 1st year 2nd Semester in addition to regular project work so that the students get benefited from extra skills
- ❖ Resolved to offer self learning courses such as MOOCS in 3rd semester of M.Tech
- ❖ Finalized the course structure of R19- B.Tech 2nd year and M.Tech 2nd year.
- ❖ Discussions on curriculum feedbacks collected from students, faculty and alumni etc were made and recommended to academic council.

H. Nagappa Reddy

**PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.**

R. Reddy

**HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINAAMIRAM
BHIMAVARAM-534 204.**

RESOLUTIONS FOR THE MEETING DATED 05-09-2020

- ❖ Discussion and finalization of course structure and syllabus of B.Tech-4th year(R17) and B.Tech 2nd year(R19). The members also finalized M.Tech 1st year 2nd SEM and 2nd year(R19) curriculum



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Amiram, Bhimavaram-534204, (AP)

Regulation: R17		IV / IV - B.Tech. I- 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	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks	
B17 CE4101	TransportationEngineering-II		3	3	1	-	30	70	100	
B17 CE4102	WaterresourcesEngineering-I		3	3	1	-	30	70	100	
B17 CE4103	Project Planning&Management		3	3	1	-	30	70	100	
#ELE-I	Elective-I		3	3	1	-	30	70	100	
#ELE-II	Elective-II		3	3	1	-	30	70	100	
B17 CE4112	Highway MaterialsTesting Lab		2	-	-	3	50	50	100	
B17 CE4113	Computer Applications in Civil Engineering Lab		2	-	-	3	50	50	100	
TOTAL			19	15	5	6	250	450	700	

#ELE-I	B17 CE 4104	Finite Element Methods of Analysis
	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

H. Nagapalli Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

[Signature]

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
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Regulation: R17			IV / 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	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
B17 CE 4201	Water Resources Engineering-II		3	3	1	-	30	70	100
#ELE-III	Elective-III		3	3	1	-	30	70	100
B17 CE 4206	Irrigation Structures Design & Drawing		2	1	--	2	50	50	100
B17 CE 4207	Seminar		2	--	--	-	50	--	50
B17 CE 4208	Project work		10	--	--	3	60	140	200
TOTAL			20	7	2	5	220	330	550

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

❖ Finalized the course structure of R19 - B.Tech 2nd year and M.Tech 2nd year.



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Regulation: R19			II / IV - B.Tech. I - Semester						
CIVIL 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
B19 BS2102	Mathematics-IV	BS	3	3	--	--	25	75	100
B19 CE2101	Mechanics of Solids	PC	3	3	--	--	25	75	100
B19 CE2102	Fluid Mechanics	PC	3	3	--	--	25	75	100
B19 CE 2103	Building Materials, construction and Planning	PC	3	3	--	--	25	75	100
B19 CE2104	Surveying	PC	3	3	--	--	25	75	100
B19 CE2105	Environmental Engineering-I	PC	3	3	--	--	25	75	100
B19 CE2106	Surveying Field Work	PC	1.5	--	--	3	20	30	50
B19 CE2107	Strength of Materials Lab	PC	1.5	--	--	3	20	30	50
B19MC 2103	Constitution of India	MC	0	3	--	--	--	--	--
TOTAL			21	21	--	6	190	510	700

H. Jagapathi Reddy
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534204

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College

Regulation: R19				II / IV - B.Tech. II - Semester					
CIVIL 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
B19 BS 2201	Engineering Geology	ES	3	3	--	--	25	75	100
B19 CE2202	Structural Analysis-I	PC	3	3	--	--	25	75	100
B19 CE2203	Concrete Technology	PC	3	3	--	--	25	75	100
B19 CE2204	Hydraulics and Hydraulic Machinery	PC	3	3	--	--	25	75	100
B19 CE2205	Environmental Engineering-II	PC	3	3	--	3	25	75	100
B19 CE2206	Engineering GeologyLab	ES	1.5	--	--	3	20	30	50
B19 CE2207	Fluid Mechanics and Hydraulic MachineryLab	PC	1.5	--	--	3	20	30	50
B19CE 2208	Concrete Lab	PC	1.5	--	--	3	20	30	50
B19 MC 2202	Professional Ethics and Human Values	MC	0	3	--	--	--	--	--
TOTAL			19.5	18	0	12	185	465	650

H. Nagappa. Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

[Signature]

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
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BHIMAVARAM-534 204.



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Regulation: R19		II / IV - 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
#PE-V/MOCS	Program Elective-V/MOCS	PE	3	3	--	--	25	75	100
#OE-I/MOCS	Open Elective-I/MOCS	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/MOCS	M19ST2101	Design of Pre-stressed Concrete Structures
	M19ST2102	Reliability Analysis and Design
	M19ST2103	Industrial Structures
	M19 ST 2104(MOCS-I)	Students Going for Industrial Project / Thesis will complete these courses through MOCS. 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/MOCS	#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(MOCS-II)	Students Going for Industrial Project / Thesis will complete these courses through MOCS. 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	
M19ST2107	Construction Management
M19ST2108	Green Technology
M19ST2109	Analysis of Offshore Structures

H. Nagappa. Reddy

PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

Alka

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINNAAMIRAM
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Regulation: R19			II / IV - B.Tech. II - Semester						
STRUCTURAL ENGINEERING									
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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
M19ST2201	Dissertation-II / Industrial Project	PR	16	0	0	32	--	100	100

- ❖ Resolved to introduce a course that gives awareness of the constitution so that the students will acquire basic fundamentals in their rights and duties
- ❖ Resolved to include seminar in B.Tech 4th year (R17) in addition to project work in the curriculum so as to enhance the skills of the students



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SCHEME OF INSTRUCTION & EXAMINATION									
(With effect from 2017-18 admitted Batch onwards)									
Course Code	Course Name	Category	Cr.	L	T	P	Int. Marks	Ext. Marks	Total Marks
B17 CE 4201	Water Resources Engineering-II		3	3	1	-	30	70	100
#ELE-III	Elective-III		3	3	1	-	30	70	100
B17 CE 4206	Irrigation Structures Design & Drawing		2	1	--	2	50	50	100
B17 CE 4207	Seminar		2	--	--	-	50	--	50
B17 CE 4208	Project work		10	--	--	3	60	140	200
TOTAL			20	7	2	5	220	330	550

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#ELE-III	B17 CE 4202	Advanced Structural Analysis
	B17 CE 4203	Environmental Impact Assessment
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Abdul Kadir

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
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- Resolved to include a course on ethical and human values in addition to regular curriculum in B.Tech

Regulation: R19			II / IV - B.Tech. II - Semester						
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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
B19 BS 2201	Engineering Geology	ES	3	3	--	--	25	75	100
B19 CE2202	Structural Analysis-I	PC	3	3	--	--	25	75	100
B19 CE2203	Concrete Technology	PC	3	3	--	--	25	75	100
B19 CE2204	Hydraulics and Hydraulic Machinery	PC	3	3	--	--	25	75	100
B19 CE2205	Environmental Engineering-II	PC	3	3	--	3	25	75	100
B19 CE2206	Engineering GeologyLab	ES	1.5	--	--	3	20	30	50
B19 CE2207	Fluid Mechanics and Hydraulic MachineryLab	PC	1.5	--	--	3	20	30	50
B19CE 2208	Concrete Lab	PC	1.5	--	--	3	20	30	50
B19MC 2202	Professional Ethics and Human Values	MC	0	3	--	--	--	--	--
TOTAL			19.5	18	0	12	185	465	650

- Discussed to include a mini project with seminar in M.Tech 1st year 2nd Semester in addition to regular project work so that the students get benefited from extra skills



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Regulation: R19			I/IV - M.Tech. II - Semester						
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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 Offshore Structures
#PE-IV	M19ST1206	Earthquake Resistant Design of Buildings
	M19ST1207	Structural Optimization Techniques
	M19ST1208	Earth Retaining Structures

H. Nagapalli
PRINCIPAL
S.R.K.R. Engg. College
BHIMAVARAM-534 204.

M. S. Reddy
HEAD
Dept. of Civil Engg.
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- ❖ Resolved to offer self learning courses such as MOOCS in 3rd semester of M.Tech



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M19ST2109	Analysis of Offshore Structures

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- ❖ Discussions on curriculum feedbacks collected from students, faculty and alumni etc were made and recommended to academic council.