

CIVIL ENGINEERING

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS) (AFFILIATED TO JNTUK, KAKINADA) (RECOGNISED BY ALL INTER COUNCIL FOR TECHL EDN., NEW DELHLE

Accredited by NAAC with 'A' Grade Recognised as Scientific and Industrial Kesearch Organisation CHINNA AMIRAM (P.O):: PHIMAVARAM:: W.G.Dt., A.P., INDIA:: PIN: 534 204

Dr. M.Jagapathi Raju
M.Tech. (IT. KGP), Ph.D.(A.U), FIR.MINTE,
PRINCIPAL (I/c.)



Phones: Off: EPADX:08816-223332 Ext.201
College:08816-222748
Fax:08816-224516
Mobile No.9848773515
Emails: profmiraju999@gmail.com
principal@srkrec.ac.in
Web Site: www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CE/3

Date: 11-04-2019

Sub: Appointment of BoS members for Civil Engineering (CE) department-Reg.

The following members are nominated as Board of Studies members for the Department of Civil Engineering. This order will come into force with immediate effect until further orders.

S. No	Name	Position in the committee	Associated with
1	Dr. P.A.R.K. Raju	Chairman	Professor & HOD, Dept. of Civil Engg, SRKREC
2	Dr. M. Jagapathi Raju		Vice Principal (Academics) & Principal, Dept. of Civil Engg, SRKREC
3	Dr. A. Subrahmanyam Raju	Faculty of each Specialization	Professor Dept. of Civil Engineering, SRKREC
4	Prof. V. Siva Rama Raju		Professor, Dept. of Civil Engineering, SRKREC
5	Prof. K. Bhaskar		Professor, Dept. of Civil Engineering, SRKREC
6	Prof. V. Rama Raju	1	Professor, Dept. of Civil Engineering, SRKREC
7	Dr. B.R. Phani Kumar	1	Professor, Dept. of Civil Engineering, SRKREC
8	Sri K.Padmanabha Raju	1	Assoc Prof,Dept. of Civil Engineering, SRKREC
9	Sri V.Venkateswara Raju		Assoc Prof,Dept. of Civil Engineering,SRKREC
10	Dr. A.C.S.V.Prasad		Assoc Prof,Dept. of Civil Engineering,SRKREC
11	Dr. M.Viswanadham		Professor, Dept. of Civil Engineering, JNTUH College of Engineering, Kukatpally, Hyderabad
12	Dr. K. Sudhakar Reddy		Professor, Dept. of Civil Engineering, IIT Kharagpur,Kharagpur-721302
13	Dr.T.D. Gunneswara Rao	Experts from Other	Professor, Dept. of Civil Engineering National Institute of Technology Warangal,
14	Dr. S.R.K. Reddy	Universities	Professor & Mentor (AS&A), Dept. of Civi Engineering Gudlavalleru Engineering College Gudlavalleru, Krishna District
15	Dr. V.Sreenivasulu	JNTUK Nominee	Professor, Dept. of Civil Engineering, (UCEK), JNTUK, Kakinada - 533003
16	Prof. D.S.R. Murthy	AU Nominee	Professor & Chairman, BOS, Dept. of Civil Engineering, Andhra University, Vizag
17	Dr. P. Gandhi	Expert -Research Organization	Chief Scientist, CSIR-Structural Engineering Research Center, CSIR-SERC, Taramani,
18	Dr. P. Kodanda Rama Rao	Expert from Professional Body	Chairman, IE(I) AP State Centre, Dr. K.L. Rac Bhavan, Irrigation Offices Compound Vijayawada,
19	G.Sai Krishna Ashok	Student	4/4 B.Tech Student
20	R.V.Narayana	Representatives	3/4 B.Tech Student

c.c.to:

Principal's table

2. HOD-Civil Engg. 3.All the above Members 4 Office file.

PREDERIPATED DE

PRINCIPAL S.R.K.R. Engineering College (Autonomous) **Sina Amiram, Bhimavaram-534 204.



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS) ATTEMPTORIES SANCTOR SECURISHED AND STRAIGHT SECURISH FOR A THE COLD SECURISH SECURI

Accredited by NAAC with 'A' Grade

Recognised as Scientific and Industrial Research Organisation CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534-204

Dr. M. Jagapathi Raju M. Lech (HT, KGP), Ph.D (A.L), FIE. MISTE Vice-Principal (Academics) and In-charge PRINCIPAL



Phones Off EPABX 08816-223332 Ext. 201 College: 08816-222748 Fax. 08816-224516 Mobile No.: 9848773515 Email: profinjraju999 @gmail.com principal@srkrec.ac.in Website: www.srkrec.ac.in

Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To Dr. M. Viswanadham Professor Dept. of Civil Engineering JNTUH College of Engineering (A) Kukatpally, Hyderabad-500085.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

The Board of Studies meetings will be conducted in respective departments as per the schedule mentioned below:

S.No.	BOARD	T DATE	30.00
_1.	Civil Engineering	DATE	TIME
2	Computer Science & Engineering	22.04.2019	2.00 P.M
3	Flectronics & Communication	22.04.2019	2.00 P M
4	Electronics & Communication Engineering	22.04.2019	2.00 P.M
5	Electrical & Electronics Engineering Information Technology	22.04.2019	2.00 P.M
6	Mechanical Engineering	22.04.2019	2.00 P.M
7	Combined	22.04.2019	2.00 P.M
	Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

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

Yours faithfully,

In-charge Principal PRINCIPAL S.R.K.R. Engg. College

BHIMAVARAM-534 204

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS) WHEN A PROPERTY OF A PARTY OF THE PARTY OF T

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Dr. M. Jagapathi Raju



Phones Off: EPAT3X-08816-2233332 Fxt. 201 College 08816-222748 Fax. 08816-224516

Mobile No.: 9848773515 Email: profinjraju999 a gmail.com principal à srkrec.ac.in Website: www.srkrec.ac.in

Date: 15.04.2019

M. Fech (HT, &GP), Ph.D (A.I.), FIE, MISTE Vice-Principal (Academics) and In-charge PRINCIPAL

SRKREC/BOS-1/CE/2018-19

To Dr. K. Sudhakar Reddy Professor Department of Civil Engineering Indian Institute of Technology Kharagpur Kharagpur-721302

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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1	Civil Engineering	DATE	TIME
2	Computer Science 9 5	22.04.2019	2.00 P.N
3	Computer Science & Engineering	22.04.2019	2.00 P.M
4	Electronics & Communication Engineering	22.04.2019	2.00 P.M
5	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
6	Information Technology	22.04.2019	2.00 P.M
7	Mechanical Engineering	22.04.2019	2.00 P.M
•	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

534 204

K.R. Engg. College BHIMAVARAM-534 284

Yours faithfully,

In-charge Principal

PRINCIPAL S.R.K.R. Engg. College

SAGI RAMA KRISHNAM RAJIL ENGINEERING COLLEGE (AUTONOMOLS) ATTRIBUTED TO A A SECURITY HERE A SERIOUS VET PRINCIPAL SER FOR CLUBS. AT PERCENTIAL SERVICE SERVICES.

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Recognised as Scientific and Industrial Research Organisation CHINNA AMIRAM (P.O) BHIMAVARAM S.W.G.DL, A.P., INDIA S PIN 534 204

Dr. M. Jagapathi Raju M. Fech (HT, KGP), Ph.D (A.U), FIE, MISTE Vice-Principal (Academies)

and In-charge PRINCIPAL



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principal@srkrec.ac.in Website: www.srkrec.ac.in

Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To Dr. K. Sudhakar Reddy Professor Department of Civil Engineering Indian Institute of Technology Kharagpur Kharagpur-721302

Dear Sir,

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Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

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S.No.	BOARD	Dim	
1	Civil Engineering	DATE	TIME
2	Computer Spieges & F.	22.04.2019	2.00 P.N
3	Computer Science & Engineering	22.04.2019	2.00 P.M
4	Electronics & Communication Engineering	22.04.2019	2.00 P.M
5	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
6	Information Technology	22.04.2019	2.00 P.M
7	Mechanical Engineering	22.04.2019	2.00 P.M
	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

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

534 204

Yours faithfully,

In-charge Principal

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

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Dr. M. Jagapathi Raju M. Tech (HI, KGP), Ph.D (A.U), FIE, MISTE Vice-Principal (Academics)

and In-charge PRINCIPAL



Phones: Off : EPABX:08816-223332 Ext. 201 College 08816-222748 Fax 08816-224516 Mobile No.: 9848773515 Email: profinjraju999 @gmail.com principal/a srkrec.ac.in Website: www.srkree.ac.in

Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To Dr.T.D. Gunneswara Rao Professor Department of Civil Engineering National Institute of Technology Warangal Warangal-506004.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

We request you to kindly attend the meeting and give your expert advice in designing the curriculum to maintain quality in academics.

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S.No.	BUARII	1	100
1	Civil Engineering	DATE	TIME
2	Computer Science & Engineering	22.04.2019	2.00 P.N
3	Electronics & Communication	22.04.2019	2.00 P.N
4	Electronics & Communication Engineering Electrical & Electronics Engineering	22.04.2019	2.00 P.M
5	Information Technology	22.04.2019	2.00 P.M
6	Mechanical Engineering	22.04.2019	2.00 P.M
7	Combined Person of Combined	22.04.2019	2.00 P.M
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S.R.K.R. Engg. Cellege

BHIMAVARAM-534 204.

Yours faithfully,

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

In-charge Principal

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

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Dr. M. Jagapathi Raju M.Tech (HT. KGP), Ph.D (A.U), FIE, MISTE Vice-Principal (Academics)

and In-charge PRINCIPAL



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principal@srkrec.ac.in Website: www.srkrec.ac.in

Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To
Dr. S.R.K. Reddy
Professor & Mentor (AS&A)
Dept. of Civil Engineering
Gudlavalleru Engineering College
Gudlavalleru, Krishna District-521356.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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3	Computer Science & Engineering	22.04.2019	2.00 P.M
4	Electronics & Communication Engineering	22.04.2019	2.00 P.M
5	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
6	Information Technology	22.04.2019	2.00 P.M
7	Mechanical Engineering	22.04.2019	2.00 P.M
13	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

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S.R.K.R. Engg. College BHIMAVAPA 534 204 \$30 204 S

Yours faithfully,

In-charge Principal

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

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

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Dr. M. Jagapathi Raju
M.Tech (HT, KGP), Ph.D (A.U.), FIE, MISTE
Vice-Principal (Academics)
and
In-charge PRINCIPAL



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Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To
Dr. P. Kodanda Rama Rao
Chairman, IE(I) AP State Centre
Dr. K.L. Rao Bhavan
Irrigation Offices Compound,
Vijayawada, Krishna Distict-520002.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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	Combined Board of Studies in Engineering Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

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Yours faithfully,
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and In-charge PRINCIPAL



Phones: Off LPABX 08816-223332 Fat. 201 College: 08816-222748 Fax: 08816-224516

Mobile No.: 9848773515 Email: profinjraju999 @gmail.com principal@srkree.ac.in Website: www.srkrec.ac.in

Date: 15.04.2019

SRKREC/BOS-1/CE/2018-19

To Dr. P. Gandhi Chief Scientist Structural Engineering Research Center CSIR-SERC Taramani Chennai-600113.

Dear Sir,

Sub: S.R.K.R. Engineering College-Board of Studies Meeting-Invitation-Reg.

We wish to inform you that Joint Board of Studies meeting will be held on 22.04.2019 at 11-00 A.M in A.C. Auditorium (I-101) of S.R.K.R. Engineering College.

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3	Electronics & Communication Engineering	22.04.2019	2.00 P.N
4	Electrical & Electronics Engineering	22.04.2019	2.00 P.M
5	Information Technology	22.04.2019	2.00 P.M
6	Mechanical Engineering	22.04.2019	2.00 P.M
7	Combined Board of Studies in Engineering	22.04.2019	2.00 P.M
	Chemistry/Engineering Mathematics/Engineering Physics / Humanities and Social Sciences	22.04.2019	2.00 P.M

The T.A / D.A. will be paid to all the external members as per the university guidelines. We request you to make it convenient to attend the meetings.

Yours faithfully, stingual de.

In-charge Principal

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



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

Dt: 18-04-2019

CIRCULAR

This is to inform you that the S. R. K. R. Engineering college will convene a joint B.O.S. meeting on 22-04-2019 at 11:00AM In I-block followed by B.O.S. meeting on 22-04-2019 at 02:00 PM in department of Civil Engineering (Room No. R105, HOD Office). In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

a) Joint Board of studies meeting:

- 1. Approval of schemes for IV year B.Tech (R16) of all branches.
- 2. Approval of schemes for III year B.Tech (R17) of all branches.
- 3. Any other matter with the permission of Chair.

b) Department B.O.S. Meeting:

- Approval of syllabus for the IV year B.Tech (R16) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
- Approval of syllabus for the III year B.Tech (R17) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
- 3. Any other item with the permission of the Chair.

C.C to:

1. The Members of Board of studies

2. Office file

Head of the Department HEAD Dept. of Civil Engg. S.R.K.R. Engg. College CHINA AMIRAM BHIMAVARAM-534 204.

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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

BOARD OF STUDIES MEETING

Date: 22nd April 2019

AGENDA

(a) Joint Board of Studies Meeting at 11.00 AM in A.C. Auditorium, I-Block.

- 1. Approval of schemes for IV Year B.Tech (R16) of all branches.
- 2. Approval of schemes for III Year B.Tech (R17) of all branches.
- 3. Any other item with the permission of Chair.

(b) Board of Studies Meeting at 2.00 P.M. in respective Departments

- Approval of Syllabus for the IV year B.Tech (R16) courses related to the respective branches as per the schemes approved in the Joint Board of Studies meeting.
- Approval of Syllabus for the III year B.Tech (R17) courses related to the respective branches as per the schemes approved in the Joint Board of Studies meeting.
- 3. Any other item with the permission of Chair

H. Dag - A M PRINCIPAL
PRINCIPAL
CAR B. Food College

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

> PRINCIPAL S.R.K.R. Engg. College

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

CHINA AMIRAM BHIMAVARAM-534 204.

	A joint R-16 board of stu	idies meeting was
21	Conducted in the chamber Department of Civil Engineering present on 22nd of April 2019	of the Head
	Donartment of Civil Engineering	ra with its members
	wellent on 22nd of Awil 2019	e.e. Monday at 1400hrs.
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	The members present	Signatures
1	Dr DSR MURTY	domely
2	Dr. S. R. K. Roldy	A.O.
3	Dr. TD. Cunnastor las	C
4	Dr. P. Kodanda Roma Rav	8-12-9
5	Der A. Suthahmanfam Thagh	Alloh
6	K. Paol manakhar Raja	KPB
7	K. Bhaskasy	Bleagnain
2	prof V. S. RAJU	Qamaly
9	Dr A. C.S.V. PRASAD	Augus
10	V. Verskatemara Roji	W 1
11.	J. V. N. RaTh	INN J
12	Dr. P. A. R. K. RAJV	MRUT
/3	Dr. Kagapakli an	Star-e/n.T
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	Student Paranintati	Consolter HELD
	5. Sai krishna Ashok (315175708047)	2 APL Dept. of Civil Eng
	R. Venkala Narayana (960101149)	S.R.K.R. Engg. Coll

Dr. P.A.Ramakrishnam Raju, Head of the Department of Civil Engineering has conducted the proceedings of the (R16 (AU Autonomous), R17 (JNTUK Autonomous)) joint Board of Studies Meeting specifically for approving the syllabi of IV B.Tech. and III B.Tech. for both odd and even semesters. He has initiated the proceedings by welcoming all the members and requested their active participation for outcome of the best possible subject content.

- 1. Dr. D.S.R. Murthy, Chairman, BoS, Dept. of/CE, AU, Visakhapatnam and other Structural Engineering experts have discussed the quantum of coverage in structural stream subjects and suggested redistribution, addition, deletion of content to make the progress of learning more evenpaced along the semesters.
- 2. Dr. T.D. Gunneswara Rao, Professor, NIT Warangal and other external experts have gone through the Project topics identified for the R-16 IV B.Tech. curriculum and suggested that students should be able to work on 'live' projects and connect the social and economic impacts of their work to contemporary societal issues.
- 3. Dr. P.Kodandarama Rao, the Chairman of Institution of Engineers (India) AP State Centre has emphasised the need for students to work on multiple Civil Engineering aspects in their B.Tech. project to cultivate the habit of collaboration between various disciplines.
- 4. Dr. S.Ramakrishna Reddy, the expert on outcome based education has recommended the distribution of Project/Practical Learning Credits across the 2nd year, 3rd year summer and IV year to give a variety of hands-on learning experiences including Survey Camp, Mini Project, Internship, Practical Training and CAD Computer Software courses.
- 5. The Chairman has informed the board about the WIIP (Weekend Industry Interaction Programme) initiated in the current semester for III B.Tech. students and the encouraging response from students. The external experts have expressed satisfaction and recommended its continuation.
- 6. The Chairman also informed the work carried out by students under the asset mapping exercise for populating NRSC Bhuvan portal with locations of assets in various villages of the Godavari Districts. The external experts suggested that internships could be designed around such activities.

7. The external experts wondering about the quantum of data collected under asset mapping in NRSC Bhuvan project, pondered on the Engs. College-makers of the region support systems (GIS) that could assist w-makers of the region in identifying the development-environment issues for proper legislation and resolution through governance.

Minutes of the meeting continued

Dr.P.A.Ramakrishnam Raju, Head of the Department of Civil Engineering has concluded the meeting by thanking all the members for their active participation in the discussions and for constituting realistic syllabi for the IV and III B.Tech. courses keeping the current industry requirements and student receptivity in mind. In his closing remarks, he requested all the members to utilise their professional network to help students get internships & jobs as well as projects for research and consultancy.

- 1. It is resolved that the suggestions given by external BoS members on Structural Engineering subjects shall be considered in redistributing the content of the subjects to make them evenly progressing along the semesters.
- 2. It is resolved to accept the changes suggested by the experts in various subjects and hence the proposed syllabi with the modifications suggested as final for the IV B.Tech. courses under R16 Andhra University (Autonomous) regulations.
- 3. It is resolved that the practise oriented modules such as 'Weekend Industry Institute Interaction' programmes and student internships shall be included as optional non-credit courses where possible for R-17 students who shall be entering the 2nd and 3rd year respectively in June 2019.
- 4. It is resolved to accept the changes suggested by the experts in some subjects and hence the proposed syllabi with the modifications suggested as final for the III B.Tech. courses under R17 JNTU K (Autonomous) regulations.
- 5. It is resolved further resolved that Choice Based Credit System (CBCS) and Practise Oriented Programmes such as Practical Training, Internships, Survey Camps, Field Visits, Live projects etc., will be incorporated with credits in the R19 curriculum which shall be shortly put before the BoS and implemented from June 2019.
- 6. It is also resolved that students shall be engaged in the outreach of the departmental academic and research outputs to the stakeholders in the region through programmes such as Unnat Bharat Abhiyan 2.0, thus working towards attaining more of the 12 Programme Outcomes beyond the technical fold.

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RESOLUTIONS FOR THE MEETING DATED 22-04-2019

- It is resolved that the suggestions given by external BoS members on Structural Engineering subjects shall be considered in redistributing the content of the subjects to make them evenly progressing along the semesters.
- It is resolved to accept the changes suggested by the experts in various subjects and hence the proposed syllabi with the modifications suggested as final for the IV B.Tech. courses under R16 Andhra University (Autonomous)



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(AUTONOMOUS)

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Regi	ulation: 16					11	7/ IV - B.Te	ch. I - Seme	ot on
	(under C	hoice Base	IVIL EN	GINEERI System / E	NG lective Cou			on 1 - Beine	ster
	SCH	EME OF	INSTRUC	CTION & 1 17 admitted	TWANTEN.	mycont			
CodeNo.	***	Category		Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total
B16 CE4101	Water Resource Engineering-I	ES	4	3	1		30	70	Marks
B16 CE4102	Transportation Engineering-I	ES	4	3	1		30		100
B16 CE4103	Project planning andManagement	ES	4	3	1		30	70	100
B16 CE4104	Computer Applications in Civil Engineering lab		2	**		3	50	70	100
B16 CE4105	Transportation Engineering Lab	ES	2			3	50	50	100
B16 CE4106	Project Phase-I	ES	2	**		3	50		50
	Total		18	9	3	9	240	310	550

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PRINCIPAL S.R.K.R. Engg. College SHIMAVARAM-534 204,

HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE(AUTONOMOUS)

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Reguli	ition: 16					IV/ IV	- B.Tech.	II - Semes	tor
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	SCHEN	AE OF IN	STRUC	TION &	EXAMINA I Batch on	ATT/AN			
CodeNo.	Name of the Subject	Category	Credits	Lecture Hrs	Tutorial Hrs	Lab Hrs	Internal Marks	External Marks	Total
B16CE4201	Water Resource Engineering-II	ES	4	3	1		30	70	
B16CE4202	Transportation Engineering-II	ES	4	3	1	**	30	70	100
B16CE4203	Irrigation Structures Design & Drawing	ES	2	I	-	2	50	50	100
B16CE4204	Project Phase-II	ES	12		-	9	50	10	150
	Total		22	7	2	11	160	290	450

- 3. It is resolved that the practise oriented modules such as 'Weekend Industry Institute Interaction' programmes and student internships shall be included as optional non-credit courses where possible for R-17 students who shall be entering the 2nd and 3rd year respectively in June 2019.
- 4. It is resolved to accept the changes suggested by the experts in some subjects and hence the proposed syllabi with the modifications suggested as final for the III B.Tech. courses under R17 JNTU K (Autonomous) regulations.

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PRINCIPAL S.R.K.R. ENGS. College BHIMAVARAM.634 204. HEAD
Dept. of Civil Engg.
S.R.K.R. Engg. College
CHINA AMIRAM
BHIMAVARAM-534 204.



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 Chinnu Amiram, Bhimavaram-534204. (AP)

Regulation		CHILL ST.			11/1	V - B	Tech. II- Se	mester	
	SCHEME OF	CIVIL ENGINE Credit Syste INSTRUCTIO from 2017-18 add	m/E	decti	ve C	ours	e System)		
Course Code	Course Name	Categor				P P	Int.	Ext.	Tot
B17 CE 2201	Structural Analysis -I	BS	3	3	1	11221	Marks	Marks	Mar
B17 CE 2202	Fluid Mechanics- I	ES	3	3	1	-	30	70	100
B17 CE 2203	Environmental	ES			1		30	70	100
B17 CE 2204	Engineering - II Concrete Technology		3	3	1	**	30	70	100
B17 CE	77	ES	3	3	1	**	30	70	100
2205 B17 CE	Surveying - II	ES	3	3	1		30	70	100
2206 B17 CE	Remote Sensing & GIS	BS	3	3	1		30	70	100
2207	Surveying Field Work	ES	2			3	50	50	17.47
2208	Fluid Mechanics Lab-1	ES	2		+	3			100
B17 CE 2209	Industry Oriented	ES	-		H	-	50	50	100
B17BS	Technology Lab English Proficiency-II	BS	1	**		2	50	**	50
2206	S-isit Proficiency-[]	1		1	1				
**		TOTAL	23	19	7	8	330	520	850



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Regulation: R1				7.000	11	I/IV	B.Tech. II	Come	
	SCHEME OF I		n/E	lecti	ve Co	urse	System)	Semester	
Park Wall and Street	(With effect fro	m 2017-18 adm	ritted	Butch	OHWH	ds)			
Course Code	Course Name	Category			Т	P	Int. Marks	Ext. Marks	Total
B17 CE3201	Reinforced Concrete Structures-II		3	3	1	-		Marks	Mari
B17 CE3202		-	3	2	1		30	70	100
B17 CE3203	Steel Structures-II Geotechnical		3	3	1		30	70	100
B17 CE3204	Engineering-II		2	3	1	377	30	70	100
- Assistant	Transportation Engineering-1		3	3	1		30	70	
B17 CE3205	Air pollution and		3	3	1		,	70	100
#OE	Control						30	70	100
B17 CE3209	Open Elective Geotechnical		3	3	1	-	30	70	100
B17 CE3210	Engineering Lab		2	-		3	50	50	100
D27 CE3210	Concrete TechnologyLab		2		-	3	50		
B17BS3201	Employability Skills		1		3		50	50	100
B17BS3202	Basic Coding		-				30	70	100
			24			3	50	50	100
	TOTAL		24	18	9	9	360	640	1000

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PRINCIPAL S.R.K.R. ENGS. College BHIMAVARAM-534 204. Open Elective

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

Dept. of Civil Enga PARTE

- 5. It is resolved further resolved that Choice Based Credit System (CBCS) and Practise Oriented Programmes such as Practical Training, Internships, Survey Camps, Field Visits, Live projects etc., will be incorporated with implemented from June 2019.
- 6. It is also resolved that students shall be engaged in the outreach of the departmental academic and research outputs to the stakeholders in the region through programmes such as Unnat Bharat Abhiyan 2.0, thus working towards attaining more of the 12 Programme Outcomes beyond the technical fold.
- 7. Practical orientation should be there for the students in addition to academics. So, suggested to include more field trips in the curriculum.
- 8. Curriculum feedbacks have been collected from various stakeholders and discussions are made with the members regarding feedbacks.

HEAD
Dept. of Civil Engg.
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Regulation: R17					111	/IV -	B.Tech. I-	Semester	_
	SCHEME OF IN	STRUCTIO	m/El	AMIN	Cou	irse S			an again
	(With effect from	n 2017-18 adı	nitted B	atch or	ward	8)			
Course Code	Course Name	Category		L	т	P	Int. Marks	Ext. Marks	Tot. Mar
B17 CE3101	Structural Analysis -11	BS	3	3	1	4	30	70	100
B17 CE3102	Reinforced Concrete Structures -I	ES	3	3	1	8	30	70	100
B17 CE3103	Steel Structures- I	ES	3	3	1		30	70	100
B17 CE3104	Geotechnical Engineering -I	ES	3	3	1	-	30	70	100
B17 CE3105	Fluid Mechanies -II	ES	3	3	1	-	30	70	100
B17 CE3106	Estimation & Quantity Surveying	ES	3	3	1	-	30	70	100
B17 CE3107	Environmental Engineering Lab	ES	2			3	50	50	100
B17 CE3108	Fluid Mechanics Labil	ES	2			3	50	50	100
B17 CE3109	Geographic Information Systems Laboratory	ES				2	50	50	
B17BS3101	Problem Solving & Linguistic Competence	BS	1	-	3	-	30	70	100
B17BS3105	IPR & Patents				2	-	-		
		TOTAL	24	18	11	8	360	64	100



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Regulation: R17					111	/IV-	B.Tech. II-	Semester	
	(under Choice Based C SCHEME OF IN (With effect from	STRUCTION	& EX	CAMI	e Co	urse S		- Community	
Course Code	Course Name	Category		L,	т	Р	Int. Marks	Ext. Marks	Tota
B17 CE3201	Reinforced Concrete Structures-II		3	3	1	-	30	70	100
B17 CE3202	Steel Structures-II		3	3	1		30	70	100
B17 CE3203	Geotechnical Engineering-II		3	3	1		30	70	100
B17 CE3204	Transportation Engineering-I		3	3	1	-	30	70	100
B17 CE3205	Air pollution and Control		3	3	1		30	70	100
#OE	Open Elective		3	3	1		30	70	100
B17 CE3209	Geotechnical Engineering Lab		2	-		3	50	50	100
B17 CE3210	Concrete TechnologyLab		2	-	-	3	50	50	100
B17BS3201	Employability Skills		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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B18CE3208 Green Fuel Technologies

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		VIL ENGI							
	(Under Choice Ba	Systen	1)			ourse	3		
	SCHE!	ME OF INS EXAMIN m 2019-20	ATION			vards)			
Course Code	Course Name	Categor y	Cr.	L	Т	P	Int. Mark	Ext. Mark	Total Mari
B19 HS1101	English	HS	3	3			25	75	100
B19 BS1101	Mathematics-I	BS	3	3		_	25	75	100
B19 BS1103	Engineering Physics	BS	3	3			25	75	100
B19 CE1101	Engineering Mechanics	ES	4	3	1		25	75	100
B19 ME 1101	Engineering Drawing	ES	2.5	1	-	3	25	75	100
B19BS1106	Engineering Geology Lab	ES	1.5		-	3	20	30	50
B19 HS1102	English Lab	HS	1.5		**	3	20	30	50
B19 CE1102	Engineering Exploration Project	PR	1			2	***	50	50
	TOTAL		19.5	13	1	11	165	485	650

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

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

(AFFILIATED TO JNTUK, KAKINADA) (RECOGNISED BY ALL INDIA COUNCIL FOR TECH. EDN., NEW DELHI) Accredited by NAAC with 'A' Grade Recognised as Scientific and Industrial Research Organisation CHINNA AMIRAM (P.O):: BHIMAVARAM :: W.G.Dt., A.P., INDIA :: PIN: 534 204

Dr. M.Jagapathi Raju M.Tech. (IIT, KGP), Ph.D.(A.U), FIE, MISTE,

Vice- Principal (Academics) and PRINCIPAL (I/c.)



Phones: Off: EPABX:08816-223332 Ext.201 College:08816-222748 Fax:08816-224516 Mobile No.9848773515 Emails: profmjraju999@gmail.com principal@srkrec.ac.in Web Site: www.srkrec.ac.in

PROCEEDINGS OF THE PRINCIPAL

Ref. No: SRKREC/Committee/BoS/CE/4

Date: 01-08-2019

Sub: Appointment of BoS members for Civil Engineering department-Reg.

The following members are nominated as Board of Studies members for the Department of Civil Engineering. This order will come into force with immediate effect until further orders.

S. No		Position in the committee	Associated with
1	Dr. A. Subrahmanyam Raju	Chairman	Professor & HOD, Dept. of Civil Engineering SRKR Engineering College
2	Dr. M. Jagapathi Raju		Vice Principal (Academics) & In-chars
3	Dr. P.A.R.K. Raju		Principal, Professor & Dean (R&D), Dept. of Civ
4	Dr. B. R. Phani Kumar	Faculty of each	
5	Prof. V. Siva Rama Raju	Specialization	Professor, Dept. of Civil Engg, SRKREC
6	Prof. K. Bhaskar		Professor, Dept. of Civil Engg, SRKREC
7	Prof. V. Rama Raju		Professor, Dept. of Civil Engg, SRKREC
8			Professor, Dept. of Civil Engg, SRKREC
9	Sri K.Padmanabha Raju		AssocProf, Dept. of Civil Engg, SRKREC
10	Sri V. Venkateswara Raju		Assoc Prof, Dept. of Civil Engg, SRKREC
10	Dr. A.C.S.V.Prasad		Assoc Prof, Dept. of Civil Engg, SRKREC
11	Dr.T.D. Gunneswara Rao	Experts from Other Universities	Professor, Dept. of Civil Engineering National Institute of Technology WarangalWarangal-506004.
12	Dr. S.R.K. Reddy		Professor & Mentor (AS&A), Dept. of Civil Engineering, GECGudlavalleru, Krishna District
	Dr. V. Ravindra	JNTUK Nominee	Professor of Civil Engineering, University College of Engineering Kakinada (UCEK), JNTU Kakinada
	Dr. P. Gandhi	Expert from Research Organization	Chief Scientist, CSIR-Structural Engineering Research Center, CSIR-SERC, Taramani, Chennai-600113
5 I	Dr. P. Kodanda Rama Rao	Expert from Professional Body	Chairman, IE(I) AP State Centre, Dr. K.L. Rao Bhavan, Irrigation Offices Compound, Vijayawada, Krishna Distict-520002.
5 8	Student Representatives		

c.c.to.

The I/c.Principal's table AVARAM-534 284.
HOD-Civil Free.

2. HOD-Civil Engg

3. All the above Members 4 Office file.

I/c. PRINCIPAL S.R.K.R. Engg. College BHIMAYARAM-534 204



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

Dt: 05-08-2019

Head of the Department

HEAD

Dept. of Civil Engg.

S.R.K.R. Engg. College CHINA AMIRAM BHIMAVARAM-534 204.

CIRCULAR

This is to inform you that the S. R. K. R. Engineering college will convene a joint B.O.S. meeting on 19-08-2019 at 11:00AM In I-block followed by B.O.S. meeting on 19-08-2019 at 02:00 PM in the department of Civil Engineering (Room No. R105, HOD Office). In this connection, all the Board of Studies members are requested to attend the same.

Agenda:

a) Joint Board of studies meeting:

- 1. Approval of Academic regulations (R19) for B. Tech and M. Tech.
- 2. Approval of Ist year B.T
- 3. B.Tech (R19) & M.Tech (R19) schemes of all branches.
- 4. Any other matter with the permission of Chair.

b) Department B.O.S. Meeting:

- Approval of syllabus for the first year B. Tech (R19) & M. Tech (R19) courses related to the respective branches as per the schemes approved in the joint B.O.S. meeting.
- 2. Approval of schemes for B. Tech (R19) 2nd, 3rd & 4th years and schemes for M. Tech (R19) 2nd year.
- 3. Any other matter with the permission of Chair.

C.C to:

1. The Members of Board of studies

2. Office file

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Dept. of Civil Engg. S.R.K.R. Engg. College CHINA AMIRAM BHIMAVARAM-534 204. P. Magapall de je

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SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (AUTONOMOUS)

BOARD OF STUDIES MEETING

Date: 19th August 2019

AGENDA

(a) Joint Board of Studies Meeting at 11.00 AM in A.C. Auditorium, I-Block.

- 1. Approval of Academic Regulations (R19) for B.Tech & M.Tech.
- 2. Approval of first year B.Tech (R19) & M.Tech (R19) schemes for all branches.
- 3. Any other item with the permission of the Chair.

(b) Board of Studies Meeting at 2.00 P.M. in respective Departments

- Approval of Syllabus for the first year courses B Tech (R19) & M.tech (R19) related to the respective branches as per the schemes approved in the Joint Board.
- Approval of Schemes for B.Tech (R19) 2nd, 3rd, & 4th years and Schemes for M.Tech (R19) 2nd year.
- 3. Any other item with the permission of the Chair.

Combined Board of Studies Meeting at 2.00 P.M. in S-Block (Physical Sciences Block)

- Approval of Syllabus for the first year B.Tech (R19) courses related to Engineering Mathematics, Physics, Chemistry, Humanities and Social Sciences as per the
- 2. Any other item with the permission of the Chair.

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

CHINA AMIRAM CHINA AMIRAM BHIMAVARAM-534 204. I/c. Principal
S.R.K.R. Engineering College
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S.R.K.R. Engg. College

The Joint (R-19) board of	Studies meeting was
conducted in the chamber of	the Head,
Department of Civil Engineering	with its members
present on 19-08-2019 (1-e)	Mondayat 2.00 PM
The Members present	Signatures
	*
1. UR S.R.K. REDDY	Questano.)
2. Dr. T.D. Gunneswasa Aaz	Qamaly
3. Prod. V. SlvARAMARAIN	Lamale
4. P. Gandhi	For 1908 19
5. DE. P. A. R.K. RAJU	
6. V. Yent atemara Roej	14th Johny.
4. Prof K. Bhaskar	Blipquar
8. S.K.V.S.T. LAVAKUMAR	(was:
9 prof. V. Rama Rasle	Tolling .
10. Dr. B. R. PHAMILLIAAR	
11. In V. Ravindra	V. Rinna
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Dr. A. Subrahmanyam Raju, Head of the department of civil engineering has conducted the proceedings of the (R19 (JNTU Autonmous)) first year Board of Studies meeting specifically for approving the syllabus. He has initiated the proceedings by welcoming all the members and requested them to give possible best measures in the syllabus framing.

- Dr. S.R.K.Reddy, the expert on outcome based education has emphasized on the significance of core courses in the curriculum.
- Dr. T.D.Gunneswara Rao, Professor, NIT Warangal stressed that the credits* planning is crucial for individual core couses in R19 syllabus.
- 3. Dr. P. Gandhi, Scientist, SERC, Chennai has suggested that the industrial training and research orientation is very crucial for students. He has emphasized that the students should get max benefit from software tools planned in the curriculum itself before they enter into the industries.
- 4. All the other members have suggested that the core courses should be given maximum importance while planning the curriculum. They also mentioned that the credits should be well planned for core courses giving less significance to other life sciences.

HOD thanked all the members who have participated in the meeting.

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

RESOLUTIONS FOR THE MEETING DATED 19-08-2019

- Dr. S.R.K.Reddy, the expert on outcome based education has emphasized on the significance of core courses in the curriculum.
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	(Under Choice Ba	sed Credit : System	System	/ Elec	ctive (Course	e		
	SCHE	ME OF INS	TRUC		1 &		-		
	(With effect fre				ch onv	vards)			
Course Code	Course Name	Categor	Cr.	L	Т	P	Int. Mark	Ext. Mark	Total Marl
B19 HS1101	English	HS	3	3			25	75	8
B19 BS1101	Mathematics-I	BS	3	3			25	75	100
B19 BS1103	Engineering Physics	BS	3	3		-	25	75	100
B19 CE1101	Engineering Mechanics	ES	4	3	1		25	75	100
B19 ME 1101	Engineering Drawing	ES	2.5	1		3	25	75	100
B19BS1106	Engineering Geology Lab	ES	1.5			3	20	30	50
B19 HS1102	English Lab	HS	1.5		**	3	20	30	50
B19 CE1102	Engineering Exploration Project	PR	1		-	2	w-	50	50
	TOTAL		19.5	13	1	11	165	485	650

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Task 8:

Final Report Submission and Presentation

	Regulation: R19					B.Tecl	ı. II - Se	mester	
	CIV (Under Choice Bas	TL ENGIN ed Credit S System	ystem /		tive C	ourse			
		IE OF INS EXAMINA n 2019-20 a	TION			ards)			
Course Code	Course Name	Categor y	Cr.	L	Т	P	Int. Mark s	Ext. Mark	Total Mark
B19 BS 1201	Mathematics-II	BS	3	3	-	-	25	75	100
B19 BS 1202	Mathematics-III	BS	3	3	25-		25	75	100
B19 BS 1204	Engineering Chemistry	BS	3	3	-	-	25	75	100
B19 CS1201	Programming for Problem Solving using C	ES	3	3			25	75	100
B19 CE 1201	Computer Aided Engineering Drawing	ES	2.5	1	-	3	25	75	100
B19 BS 1207	Engineering Chemistry Lab	BS	1.5			3	20	30	50
B19 HS 1202	Communication SkillsLab	HS	1.5		-	3	20	30	50
B19 CS 1204	Programming for Problem Solving Using C Lab	ES	1.5			3	20	30	50
B19 ME 1205	Workshop Practice Lab	ES	1.5			3	20	30	50
B19 MC 1203	Environmental Science	MC	0	3					
	TOTAL		20.5	16		15	205	495	700

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	Regulation: R19			I	/H -	M.Te	ch. I - Se	mester	
	STRUC	TURAL EN	GIN	EER	ING				
	(Under Choice Bas					Cours	e		
		IE OF INST EXAMINA	TION						
	(With effect from	m 2019-20 ac	lmittee	Bate	ch on	wards)	ř.		
Course Code	Course Name	Categor y	Cr.	L	Т	P	Int. Mark	Ext. Mark	Total Mark
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	-
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
mara a		Matrix Methods of Structures		1	English for Research Pape Writing
#PE-I		Analytical & Numerical Methods for Structural Engineering	#AC	M19AC0002	Disaster Management
	M19ST1105	ra t	&2		Sanskrit for Technical Knowledge
				M19AC0004	Value Education
	P EL ORIMA A SA		1	M19AC0005	Constitution of India
	M19811106	Bridge Engineering		M19AC0006	Pedagogy Studies
#PE-II		Repair and Rehabilitation of Structures		M19AC0007	Stress Management by Yoga
		Advanced Reinforced Concrete Design			Personality Development throughLife Enlightenment Skills.

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Regulation: R19 I / IV - M.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 Categor Int. Ext. Total Course Name Cr. Code L T Mark Mark Mark Finite Element Methods in M19ST1201 PC Structural Engineering 3 3 25 75 100 MI9ST1202 Theory of Plates and Shells PC 25 100 #PE-III Program Elective-III 3 3 25 75 100 #PE-IV Program Elective-IV PE 3 25 75 100 Computer Aided Design M19ST1209 PC 2 Laboratory 25 75 100 Design of Structures M19ST1210 PC Laboratory 2 75 100 M19ST1211 Mini Project With Seminar PC 4 100 100 M19AC000 AuditCourse-2 AC 2 TOTAL 18 14 0 12 250

	Code	Course
#PE-III	M19ST1203	Stability of Structures
	M19ST1204	Advanced Steel Design
	M19ST1205	Analysis of Offshore Structures
#PE-IV	M198T1206	Earthquake Resistant Design of Buildings
	M19ST1207	Structural Optimization Techniques
	M19ST1208	Earth Retaining Structures

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