



SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service : SNR Sons Charitable Trust]

Vattamalaipalayam, N.G.G.O. Colony Post,
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DEPARTMENT OF CIVIL ENGINEERING MINUTES OF THE 18th BOARD OF STUDIES

18.03.2026

Minutes of the Civil Board of Studies Meeting for the UG Civil Engineering Programme Held on 17.03.2026 at 2.00 P.M. in the Civil Department Board Room through online mode.

Google Meet Link: <https://meet.google.com/ctc-rpty-jwv>

The following members attended the above meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr. G. Swaminathan Professor (HAG)	Anna University Nominee
3.	Dr.S.Chithra Associate Professor	Subject Expert from Parent University (Government / Government Aided Organization)
4.	Dr. S. Mathava Kumar Associate Professor	Expert Member from IITs
5.	Er.R.Prabhudev Proprietor	Industrial Expert
6.	Mr.S.Manoj Kumar (2018-2022 Batch)	Alumnus
7.	Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	Internal Member
8.	Mr.D.Vivek, AP(Sr.Gr)/Civil Internal Member	Internal Member
9.	Dr.S.Hema, ASP/Civil Internal Member	Internal Member
10.	Dr.S.Kanchana, ASP/Civil Internal Member	Internal Member



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11.	Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	Internal Member
12.	Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	Internal Member
13.	Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	Internal Member
14.	Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	Internal Member
15.	Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	Internal Member

Dr.E.Sarojini, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 18th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM I

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.

ITEM II

- It is resolved that Regulation 2025 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E/ B.Tech programmes for students admitted in the Academic year 2025.
- It is resolved that the Curriculum and Syllabi be approved for the following new courses

Semester V

S.	Course	Course Title	Category	L	T	P	C
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18th Board of Studies 2026



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No	Code						
THEORY							
1.	25CE2200	Foundation Engineering	PCC	3	0	0	3
2.	25CE2201	Design of Reinforced Concrete Elements	PCC	2	1	0	3
3.	25CE2202	Water Resources Engineering	PCC	3	0	0	3
4.		Multidisciplinary Course II AI applications in civil engineering / Energy Conservation Techniques in Buildings	MDC	3	0	0	3
5.		Open Elective II	OEC	3	0	0	3
6.		Professional Elective I	PEC	3	0	0	3
PRACTICALS							
7.		Remote Sensing and GIS	SEC	1	0	2	2
8.		Building Information Modelling	SEC	0	0	2	1
9.		Multi-Disciplinary Project	ELC	0	0	4	2
Total							23

Semester VI

S. No	Course Code	Course Title	Category	L	T	P	C
THEORY							
1.	25CE2203	Design of Steel Structures	PCC	2	1	0	3
2.	25CE2204	Structural Dynamics and Earthquake Resistant Structures	PCC	2	1	0	3
3.		Multidisciplinary Course III	MDC	3	0	0	3
4.		Professional Elective II	PEC	3	0	0	3
THEORY CUM LABORATORY							
5.	25CE2250	Highway and Railway Engineering	PCC	2	0	2	3



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6.	25CE2251	Water and Wastewater Engineering	PCC	3	0	2	4
PRACTICALS							
7.	25CE2270	Computer Aided Analysis and Design Laboratory	PCC	0	0	2	1
Total							20

ITEM III

It is resolved that the syllabi for the following new Professional Core courses under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
THEORY							
1.	25CE2200	Foundation Engineering	PCC	3	0	0	3
2.	25CE2201	Design of Reinforced Concrete Elements	PCC	2	1	0	3
3.	25CE2202	Water Resources Engineering	PCC	3	0	0	3
4.	25CE2203	Design of Steel Structures	PCC	2	1	0	3
5.	25CE2204	Structural Dynamics and Earthquake Resistant Structures	PCC	2	1	0	3
THEORY CUM LABORATORY							
6.	25CE2250	Highway and Railway Engineering	PCC	2	0	2	3
7.	25CE2251	Water and Wastewater Engineering	PCC	3	0	2	4
PRACTICALS							
8.	25CE2270	Computer Aided Analysis and Design Laboratory	PCC	0	0	2	1

ITEM IV



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It is resolved that the syllabi for the following new Professional Elective courses under Regulations 2025 be approved and passed.

Nil

ITEM V

It is resolved that the syllabi for the following new Open Elective courses under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
THEORY							
1.	25OEXXX	Disaster Management	OE	3	0	0	3

ITEM VI

It is resolved that the syllabi for the following Ability Enhancement courses (AEC) under Regulations 2025 be approved and passed.

Nil

ITEM VII

It is resolved that the syllabi for the following new Skill Enhancement courses (SEC) under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
PRACTICALS							
1.		Remote Sensing and GIS	SEC	1	0	2	2
2.		Building Information Modelling	SEC	0	0	2	1

ITEM VIII



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It is resolved that the syllabi for the following new Value Added Courses (VAC) under Regulations 2025 be approved and passed.

Nil

ITEM IX

It is resolved that the syllabi for the following new Liberal Arts courses (LAC) under Regulations 2025 be approved and passed.

Nil

ITEM X

It is resolved that the syllabi for the following new One Credit courses will be included under Regulations 2025 for B.E Programme

Nil

ITEM XI

- It is resolved that the following NPTEL courses are approved for credit transfer during April/May 2026.

S. No.	Course Code	Course Title	Credits	Couse Duration	Equivalent Professional / Open Elective in SREC curriculum
1.	noc26-ce48	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc26-ce16	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principle of Microwave, Thermal and Hyper Spectral Remote Sensing
3.	noc26-ce21	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 & Construction Quality and Safety Management
4.	noc26-ar13	Environmental Impact	3	12 Weeks	20CE2E27 &



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S. No.	Course Code	Course Title	Credits	Couse Duration	Equivalent Professional / Open Elective in SREC curriculum
		Assessment			Environmental Impact Assessment
5.	noc26-ce49	Electronic Waste Management - Issues And Challenges	1	4 Weeks	20CE2E10 & Hazardous and E-waste Management
6.	noc26-ce16	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principles of Microwave, Thermal And Hyper spectral Remote Sensing
7.	noc26-ce81	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 & Digital Land Surveying And Management
8.	noc26-ce73	Environmental Remediation of Contaminated Sites	3	12 Weeks	20CE2E20 & Environmental Remediation of Contaminated Sites
9.	noc26-ce23	Expansive Soil	2	8 Weeks	20CE2E38 & Foundation in Expansive Soils

ITEM XII

- It is resolved that the Result Analysis for the Academic Year 2025 – 2026 (Semesters VIII/ VI/ II) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1	2022-2026	52	49	94.23
2	2023-2027	61	33	54.1



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3	2024-2026	62	27	43.55
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ITEM XV

- It is resolved that the new courses and its syllabi be approved for the Honors/Minor in B.E Civil Engineering Degree Programme

Nil

ITEM XVIII

- It is resolved that the following Honors/Minor courses are offered during the odd semester Academic Year 2025-2026 and the following eligible students of RR2020 be approved for the Honors/Minors in B.E Civil Engineering Programme

Specialization Course Details	Register no. of Candidates	Name	CGPA
Green Technology	71812309012	DHEERSHANA SAI SIVA KUMAR	8.9
	71812309014	GUNASIA M	9.05
	71812309019	KUNGUMA VINODHINI R	8.05
	71812309022	MOHANA PRIYA M K	8.79
	71812309038	SEENIVASAPERUMAL A	7.21
	71812309042	SRIJA V M	8.73
	71812309045	THANUJA S	8.87
	71812309047	VASUNTHARA V	8.32
	71812309052	VISHNU BARATH T	8.08

ITEM XIV

It is resolved that the following Mandatory courses be approved for the student in B.E. Civil Engineering degree programme

Nil

ITEM XII



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- It is resolved that the following students had completed 4/6 weeks of Internship/Inplant training be approved for the student in B.E. Civil Engineering programme

Nil

ITEM XX

- Readmitted / transferred student details

S.No.	Register No.	Name of the Student
1	71812409040	TAMILKUMARAN M

- Credit balance for the Readmitted / transferred students

- 71812409040 - TAMILKUMARAN M completed I semester courses under RR2020 regulation and admitted in II Sem under R25.

Category	RR2020	R25
BSC	10	10
HSSM	4	4
ESC	6	5
Total	20	19

The following suggestions were received from Anna University Nominee –

Dr. G. Swaminathan

1. In the Foundation Engineering course, he suggested to include one of the slope stability analysis method (i.e) Slip Circle Method of stability analysis.
2. Upon reviewing the Water Resource course, he noted that the content is too extensive and heavy for students and recommended splitting the course and offering one part as an elective course.
3. In the Structural Dynamics and Earthquake Resistant Structures course, he enquired whether pushover analysis concept is included or not, for which Mr.Parthiban informed that it will be included in Elective course.
4. In Water and Wastewater Engineering, he enquired about BOD content, for which Mrs R. Malathi clarified that it will be covered under the wastewater characteristics topic.



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5. In Computer Aided Analysis and Design Laboratory course, he suggested that the topic “Design using Excel Sheets” can be moved to the Design of Reinforced Concrete Elements course and given as Term Work content. Accordingly, the experiments have to be added.

The following suggestions were received from Expert Member – Dr. S. Mathava Kumar

1. After reviewing the course Water Resource Engineering, he suggested to remove the 5th module - Distribution System of Canal Irrigation and offer it as another course.
2. In the open Elective Disaster Management course, instead of teaching Tools for Disaster Management for 9 hours, the module can be rearranged under other modules.
3. In Remote Sensing and GIS course, the 3rd module topic can be rewritten. Suggested to remove the topic Water Resources field and replace it with Application in Complex Civil Engineering Projects.
4. In Design of Steel Structures course, the module 3,4,5 title can be rearranged as Tension Members, Flexural Members and Compression Members.
5. In Water and Wastewater Engineering course, Course objectives can be reframed. In Module 2, water treatment, he instructed to elaborate the content as filtration (sand & membrane) and disinfection (Chlorination, Ozonation & UV). In Module 3, Grid Chamber can be added, topic on MBR, MBBR in addition to SBR content. Design of water purification units, resource recovery & sustainability topics can be introduced.

The following suggestions were received from Subject Expert – Dr.S.Chithra

1. She reviewed the Design of Reinforced Concrete Elements course, she enquired whether the combined Bending and Torsion content is required. In 4th module Design of short axially loaded RC column topic can be removed. Additionally the topic on Design of mat & raft foundation can be moved to higher semester.
2. In Building Information Modelling course, MEP can be introduced.
3. Topics such as Gantry Girder and Plastic Hinge Concept can be included in relevant modules.

The following suggestions were received from Industrial Expert – Er.R.Prabhudev

1. He suggested to introduce the sheet metal topic in any of the upcoming courses.



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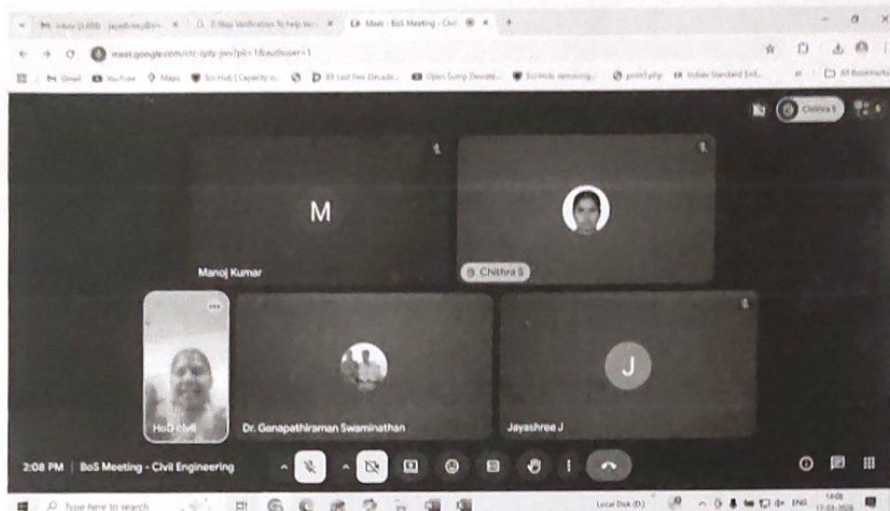
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The following suggestions were received from Alumnus – Mr.S.Manoj Kumar

1. He shared his view in the Computer Aided Analysis and Design Laboratory course, that the Excel-based design of elements can be taught first, followed by analysis using STAAD Pro, to improve student understanding.



**CHAIRPERSON
BOARD OF STUDIES**



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DEPARTMENT OF CIVIL ENGINEERING **MINUTES OF THE 17th BOARD OF STUDIES**

Minutes of the Civil Board of Studies Meeting for the UG Civil Engineering Programme Held on 13.11.2025 at 10.00 A.M. in the Civil Department Board Room

The following members attended the above meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr. G. Swaminathan Professor (HAG)	Anna University Nominee
3.	Dr.S.Chithra Associate Professor	Subject Expert from Parent University (Government / Government Aided Organization)
4.	Dr. S. Mathava Kumar Associate Professor	Expert Member from IITs
5.	Er.R.Prabhudev Proprietor	Industrial Expert
6.	Mr.S.Manoj Kumar (2018-2022 Batch)	Alumnus
7.	Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	Internal Member
8.	Mr.D.Vivek, AP(Sr.Gr)/Civil Internal Member	Internal Member
9.	Dr.S.Hema, ASP/Civil Internal Member	Internal Member
10.	Dr.S.Kanchana, ASP/Civil Internal Member	Internal Member
11.	Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	Internal Member
12.	Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	Internal Member
13.	Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	Internal Member
14.	Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	Internal Member



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15.	Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	Internal Member
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Dr.E.Sarojini, Chairperson, Board of Studies, chaired the meeting and welcomed all the members to the 17th BoS meeting. After a brief introduction, the agenda items listed were taken up for discussion and the following resolutions were passed.

ITEM I

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.

ITEM II

- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2025.

S. No.	Course Code	Course Title	Credits	Couse Duration	Equivalent Professional / Open Elective in SREC curriculum
1.	noc25-ce112	Bridge Engineering	3	12 Weeks	20CE2E02 - Design of Bridges
2.	noc25_ar13	Sustainable Architecture	3	12 Weeks	20CE2E04 - Climate Responsive Design / 20CE2E28 - Sustainable Site Planning
3.	noc25_ce115	Ground Improvement	3	12 Weeks	20CE2E07 - Ground Improvement Techniques
4.	noc25_ch57	Technologies for Clean and Renewable Energy Production	2	8 Weeks	20CE2E09 – Clean Technology
5.	noc25_ce109	Municipal Solid Waste management	3	12 Weeks	20CE2E11 - Municipal Solid Waste management
6.	noc25_ce113	Introduction to Multimodal Urban Transportation System	3	12 Weeks	20CE2E17 - Multimodal Transportation System
7.	noc25_ce111	Geotechnical Earthquake Engineering	3	12 Weeks	20CE2E39 - Geotechnical Earthquake Engineering



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ITEM III

- It is resolved that the Result Analysis for the Academic Year 2024 – 2025 (Semesters VIII/ VI/ II) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1	2021-2025	41	31	75.60
2	2022-2026	49	38	77.55
3	2023-2027	55	27	49.09

ITEM IV

- It is resolved that the Result Analysis for the Academic Year 2024-2025 (April/May 2025) – for specialization course – Green Technology are approved and passed.

Specialization Course Details	Register No. of the Candidate	Name	CGPA
Green Technology	71812209004	Bala Abinaya K	8.5
	71812209005	Bharanidharan K	8
	71812209006	Bharat Raju K	7.5
	71812209022	Niranjana R A	9.25
	71812209023	Omsri.M	9.25
	71812209028	Ramesh Kannan J	9
	71812209031	Shri Hari Varshaa S	9.5

ITEM V

It is resolved that the following Mandatory courses be approved for the student in B.E. Civil Engineering degree programme

Batch: 2022 – 2026

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Allied Skills	20MC275 - Technical Certification	55

Batch: 2023 - 2027

S.No	Mandatory Course	Course Code	No. of Students Completed
1.	Allied Skills	20MC275 - Technical Certification	31



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ITEM VI

- It is resolved that the following students had completed 4/6 weeks of Internship/Inplant training be approved for the student in B.E. Civil Engineering programme

Batch: 2022 - 2026

S.No	Industry	No. of Students Completed
1.	IIT Bombay	17
2.	Ragam Constructions	1
3.	Right Constructions	1
4.	SG Structural Engineers	5
5.	Vijayam Construction	5
6.	S K Construction	1
7.	Geotech land Surveys	8
8.	ISHA Construction	3
9.	Vijayam Construction	5
10.	D R Construction	1
11.	Shri Hayagrivaas Construction	1
12.	PTK Construction	4
13.	S D M Builders	1
14.	Sri Golden Moon Engineering Construction	1
15.	TPS Builders	3
16.	Selvani Construction	1
17.	Johny Engineers and Contractors	1
18.	K R Construction	1
19.	Karthick Construction	1
20.	SMT Construction	3
21.	Sri Preethi Building Construction	1
22.	K M P Associates	1
23.	Classy Constructions	1

ITEM VII

- Readmitted / transferred student details

NIL

- Credit balance for the Readmitted / transferred students

NIL



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ITEM VIII

It is resolved that Regulations 2025 (Outcome based Curriculum through Choice based Credit System,) will be followed for all B.E./B.Tech/M.Tech(Int). programmes for students admitted in the Academic year 2025 and onwards to approved and passed.

Minimum number of credits to be earned for the successful completion of B.E/B.Tech. Programmes for

- Regular candidates (4 years) : 161 credits
- Lateral Entry candidates (3 years) : 120 credits

ITEM IX

Regulation 2025 Curriculum

It is resolved that the R2025 curriculum be approved.

Semester wise Credit Distribution – R2025 (NEP Aligned)

Category	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	VII Sem	VIII Sem	Total Credits
HSSM	4	3					6		13
BSC	10	4	4						18
ESC	5	4	9						18
PCC		9	6	7	9	14	9		51
PEC					3	3	6	6	18
OEC				3	3				6
MMC				3	3	3			9
AEC		2	2	2					6
SEC				1	3				4
VAC			2	2					4
LAC				2					2
ELC				2	2		2	6	12
Total Credits	19	22	23	22	23	20	20	12	161



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Semester III

S. No	Course Code	Course Title	Category	L	T	P	C
THEORY							
1.		Numerical Methods	BSC	3	1	0	4
2.		Mechanics of Materials	PCC	3	0	0	3
3.		Fluid Mechanics and Hydraulics Engineering	ESC	3	0	0	3
4.		Architectural Science of Buildings	ESC	2	0	0	2
5.		AEC II (Lingua skill courses / Foreign language courses / Design Thinking / Soft skills/Aptitude and Logical Reasoning)	AEC	2	0	0	2
6.		Sustainable Infrastructure	VAC	2	0	0	2
THEORY CUM LABORATORY							
7.		Concrete Technology	PCC	2	0	2	3
8.		Python Programming	ESC	2	0	2	3
PRACTICALS							
9.		Fluid Mechanics and Hydraulics Engineering Laboratory	ESC	0	0	2	1
Total							23

Semester IV

S. No	Course Code	Course Title	Category	L	T	P	C
THEORY							
1.		Analysis of Structures	PCC	4	0	0	4
2.		Open Elective I	OEC	3	0	0	3
3.		Multidisciplinary Minor Course I Sensors and Instrumentation for Civil Engineering 3D Printing in Construction	MMC	3	0	0	3
4.		AEC III (Aptitude and Logical Reasoning)	AEC	2	0	0	2
5.		LAC II	LAC	2	0	0	2



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		(Vedic Mathematics/ Cultural heritage of India/ Dance / Music/ Yoga)					
6.		VAC - Building Bye Laws, Approvals and Contracts	VAC	2	0	0	2
THEORY CUM LABORATORY							
7.		Geomechanics	PCC	2	0	2	3
PRACTICALS							
8.		Computational Laboratory	SEC	0	0	2	1
9.		MP - I	ELC	0	0	4	2
Total							22

ITEM X

It is resolved that the syllabi for the following new Open Elective courses under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
1.		Waste Management	OEC	3	0	0	3
2.		Building Materials and Construction Practices	OEC	3	0	0	3

ITEM XI

It is resolved that the syllabi for the following new Multidisciplinary Elective courses (MDC) under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
1.		Geographical Information System	MMC	3	0	0	3



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ITEM XII

It is resolved that the syllabi for the following new Skill Enhancement courses (SEC) under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
1.		Computational Laboratory	SEC	0	0	2	1

ITEM XIII

It is resolved that the syllabi for the following new Value-Added courses (VAC) under Regulations 2025 be approved and passed.

S. No	Course Code	Course Title	Category	L	T	P	C
1.		Sustainable Infrastructure	VAC	2	0	0	2
2.		Building Bye Laws, Approvals and Contracts	VAC	2	0	0	2

The following suggestions were received from Anna University Nominee –

Dr. G. Swaminathan

1. He reviewed the curriculum distribution from Semester I to VIII and suggested moving the Water Resources Engineering course from the 7th semester to an earlier semester.
2. For the Mechanics of Materials course, he recommended including the conjugate beam method and double integration method in Module II. (As well as adding topics on thick and thin cylinders and Lami's theorem as self-learning content.) He also suggested removing Influence Line Diagrams (ILD) from the self-learning component.
3. For the Sustainable Infrastructure Practices course, he suggested adding relevant water quality topics in one of the modules.
4. In the Concrete Technology course, he suggested renaming the topic Quality of Mixing Water and adding topics on characteristic strength and mass concreting.
5. In the Fluid Mechanics and Hydraulics Engineering course, he suggested including open channel flow, draft tube, Classification of pumps, types of valves and appurtenances. He also insisted that the theory-cum-laboratory course be separated into theory and practical components.



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6. He recommended rearranging the Building Information Modeling Laboratory course to the 5th semester, as basic knowledge of structural members is important before handling the course.
7. In the Analysis of Structures course, he suggested combining the Slope Deflection Method and Moment Distribution Method, and including Castigliano's theorem, Muller-Breslau principle, and two-hinged arches in Module II.
8. In the Building Bye Laws and Approvals course, he insisted on reframing the first module or removing it if necessary.
9. In the Geomechanics course, he suggested adding the consolidation properties of soil to Module III and shifting the module to the end. He also recommended elaborating the content given in Module I.
10. In the Computational Laboratory, he pointed out that the word chlorine is incorrect and should be replaced with chloride or residual chloride.
11. In the Open Elective course Building Materials and Construction Practices, he recommended making the content more generic and removing or reframing Vastu.

The following suggestions were received from Expert Member – Dr. S. Mathava Kumar

1. After reviewing the curriculum from Semester I to VIII, he rearranged the courses by moving Water Resources Engineering to the 5th semester, Highway and Railroad Engineering from the 5th to the 6th semester, and Smart City Planning & TEM to the 7th semester.
2. He suggested renaming the course Water and Wastewater Engineering to Environmental Engineering, including some content on solid waste management, reducing outdated topics, and introducing newer topics such as filters.
3. He insisted on changing the credit structure of Mechanics of Materials from 2 Lecture + 1 Tutorial (3 credits) to 3 Lecture (3 credits), and similarly for the Analysis of Structures course.
4. He approved offering Sustainable Infrastructure Practices as an Engineering Science course and recommended modifying Module III from On-site Sewage Treatment Plant (STP) to On-site Water and Wastewater Management.
5. Upon reviewing Concrete Technology, he suggested reframing Quality of Mixing Water to Water Quality Requirements and incorporating innovative materials used in concrete.
6. He insisted on renaming the course Architectural Science of Buildings to Architectural and Functional Design of Buildings, and suggested engaging adjunct faculty to handle Modules I and II OR Modify 3 module contents as meet the name Architectural science of building.



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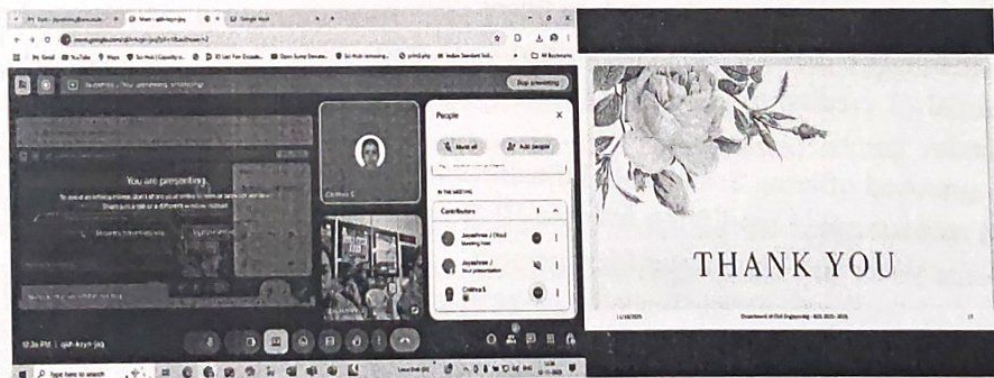
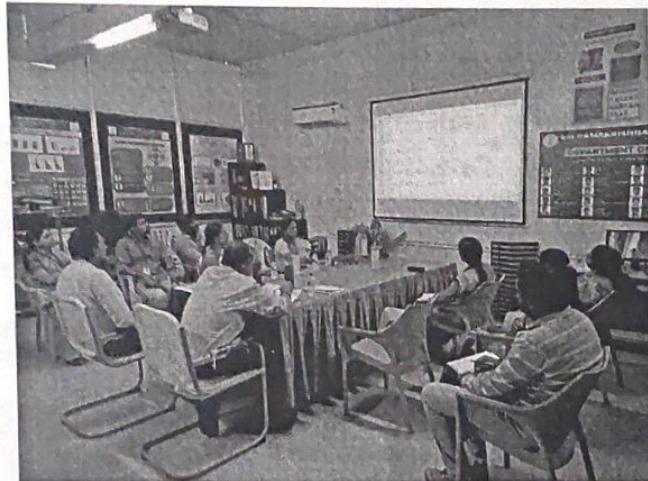
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7. In the Building Bye Laws and Approvals course, he recommended removing the Vastu module and renaming the course as Building Bye Laws, Approvals, and Contracts, adding a separate module on contracts.
8. In the Geomechanics course, he suggested including relevant IS codes wherever applicable.
9. In the Computational Laboratory, Experiment 7 can be modified as Measurement of contamination through residual chloride.
10. For the Waste Management course, he suggested reframing the modules based on types of waste generation (e-waste, C&D waste, biomedical waste), incorporating SDGs, colour coding for waste collection, and waste management regulations.



The following suggestions were received from Subject Expert – Dr.S.Chithra

1. She recommended that topics missing in the Structural Analysis course can be offered as a Professional Elective.



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2. She suggested including stages in shear centre as a self-learning topic in Mechanics of Materials and advised removing method names while reframing the COs.
3. In the Concrete Technology course, she insisted on adding topics on stages in concrete production and the ACI method of mix design.
4. She suggested increasing the lecture hours for Module V in the Analysis of Structures course.

The following suggestions were received from Industrial Expert – Er.R.Prabhudev

1. He suggested combining Architectural Science of Buildings with (BIM) to improve visualization and drawing output. His suggestion was acknowledged for incorporation in the next regulation.
2. He recommended shifting the Python Programming course from the 3rd semester to the 4th semester.
3. In the Building Bye Laws and Approvals course, he suggested including approval types based on area and approval procedures.
4. For the Open Elective course Building Materials and Construction Practices, he suggested orienting the content toward automation, HVAC, building materials, building services, and fire safety.

The following suggestions were received from Alumnus – Mr.S.Manoj Kumar

1. In the Concrete Technology course, he insisted on adding micro concreting, which was clarified as already covered in the Repair and Rehabilitation of Structures course.
2. In the Open Elective course Building Materials and Construction Practices, the Vastu content can be reframed as scientific theories on building orientation, and location can be included.


CHAIRPERSON

BOARD OF STUDIES

Department of Civil Engineering



SRI RAMAKRISHNA ENGINEERING COLLEGE

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[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]
[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]
[ISO 9001:2015 Certified and all eligible Programmes Accredited by NBA]
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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 16th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 16th board of studies meeting on 22.03.2025 at 10.30am in the Civil department Board room.

The following members have attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr. G. Swaminathan Professor (HAG)	Anna University Nominee
3.	Dr.S.Chithra Associate Professor	Subject Expert from Parent University (Government Organization)
4.	Dr. S. Mathava Kumar Associate Professor	Expert Member from IITs
5.	Er.R.Prabhudev Proprietor	Industrial Expert
6.	Mr.S.Manoj Kumar (2018-2022)	Alumnus
7.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	Internal Member
8.	Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	Internal Member
9.	Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	Internal Member
10.	Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	Internal Member
11.	Dr.S.Hema, ASP/Civil Internal Member	Internal Member
12.	Dr.S.Kanchana, ASP/Civil Internal Member	Other faculty members who have attended
13.	Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
14.	Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
15.	Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	
16.	Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed regulations2025 (R2025) of UG Programme for Civil

Engineering. The Vision, Mission of Institution and Department, PEO's, PSO's, were discussed. Curriculum and syllabi of I and II Semester of R2025 and NPTEL for the UG students are submitted for approval.

The Proposed Vision, Mission of the Institution were discussed and agreed to follow the Vision, Mission of the Institution.

The proposed Vision, Mission of the Department, PEO's, PSO's, were discussed and submitted for approval.

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2022, 2023 & 2024.
- It is resolved that Regulation 2025 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. Programmes for students admitted in the Academic year 2025 & onwards.
- It is resolved that the following NPTEL courses are approved for credit transfer during April/May 2025.

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc25-ce62	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc25-ce40	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principle of Microwave, Thermal and Hyper Spectral Remote Sensing
3.	noc25-ce11	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 & Construction Quality and Safety Management
4.	noc25-ar03	Environmental Impact Assessment	3	12 Weeks	20CE2E27 & Environmental Impact Assessment
5.	noc25-ce15	Electronic Waste Management - Issues And Challenges	1	4 Weeks	20CE2E10 & Hazardous and E-waste Management
6.	noc25-ce40	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principles of Microwave, Thermal And Hyper spectral Remote Sensing
7.	noc25-ce13	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 & Digital Land Surveying And Management
8.	noc25-ce19	Environmental Remediation	3	12 Weeks	20CE2E20 & Environmental

		of Contaminated Sites			Remediation of Contaminated Sites
9.	noc25-ce20	Expansive Soil	2	8 Weeks	20CE2E38 & Foundation in Expansive Soils

- It is resolved that the Result Analysis for the Academic Year 2024 – 2025 (Semesters VII / V/ III) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1.	2021 Batch	39	36	92.31
2.	2022 Batch	53	38	71.7
3.	2023 Batch	57	29	50.88

S.No	Batch	O	A+	A	B+	B	C
1.	2021 Batch	2	5	31	51	23	11
2.	2022 Batch	32	120	162	86	54	17
3.	2023 Batch	58	125	160	76	48	27

- It is resolved that the following students are eligible for Credit Transfer through NPTEL Course during Nov 2024- December 2024 under Choice Based Credit System as per RR2020 regulation are approved and passed.

S.No	Register Number	Name	Course Code	Name of the NPTEL Course	SREC Equivalent	Course Duration	Credits	Marks Secured
1.	71812209004	K. Bala Abinaya	noc24_ar16	Sustainable Architecture	Climate Responsive Design	12 weeks	3	60
2.	71812209022	R. A. Niranjana					3	61
3.	71812209040	S. P. Ashwanth					3	63

- It is resolved that the one credit courses be approved for the student admitted in RR20 in B.E. Civil Engineering degree programme

S.No	Name of the Course	Number of Students Completed
1.	20CEI001 – Construction Safety	64

- It is resolved that the Liberal Arts course be approved for the student admitted in RR20 in B.E. Civil Engineering degree programme
- In the academic year 2023 -2024, as per Curriculum, the students of Civil Engineering department had completed the following Liberal Arts course and Disruptive Technology Course during the Even Semester.

S. No.	Course Code	Course Title	Year of Admission	No of students completed during 2024 – 25 (Odd)
1	20CE206	Architectural Conservation & Historic Preservation	2024	48
2	20BM206	Biology for Engineers	2023	51
	20IT2I01	Design Thinking	2022	55

- In the academic year 2023 -2024, as per Curriculum, the students of Civil Engineering department have completed the following mandatory courses.

S. No.	Category	Course Title	Year of Admission	No of students completed
1.	Non Credited Mandatory Courses	Allied Skills – Technical Certification	2021	41
2.		Allied Skills – Technical Certification	2022	47
3.		Allied Skills – Technical Certification	2023	03
4.		Personality & Character Development	2024	47

- It is resolved that the following students had completed 6 weeks of internship/Live in lab training be approved for the student in B.E. Civil Engineering degree programme

Batch: 2021 - 2025

S.No	Internship/Live in lab	No. of Students Completed
1.	Internship	41

- It is resolved that the Result Analysis for the Direct self-study students for the Academic Year 2024-2025 (Nov/Dec 2024) –are approved and passed.

Direct Self Study Course Details	Register Number of Candidates	Name of the Candidate	CGPA
20CE2E25	71812209004	Bala Abinaya K	7.98

Building Services	71812209005	Bharanidharan K	7.64
	71812209008	Dhanalakshmi S	8.42
	71812209017	Kowsalya S	8.50
	71812209022	Niranjana R A	8.66
	71812209023	Om Shri M	8.83
	71812209025	Priyadarsini A	8.19
	71812209030	Shalini M	8.42
	71812209031	Shri Hari Varshaa S	8.98
	71812209033	Vijay Aswath S	8.12
	71812209036	Vishvashree G	8.39
	71812209039	Nisha Gopika D	8.32
	71812209040	Ashwanth S P	8.85

- It is resolved that the Result Analysis for the Academic Year 2024-2025 (Nov/Dec 2024) – for specialization course – Green Technology are approved and passed.

Specialization Course Details	Register No. of the Candidate	Name	CGPA
20CE2E31- Green Buildings materials and sustainable design	71812109026	I.Rubina	9.67
	71812109006	N.Asmin Varsha	8.67
	71812109033	N V Darshana	8.50
	71812109009	M. Dhevdharshini	8.83
	71812109022	V.Pranesh	7.60

Specialization Course Details	Register No. of the Candidate	Name	CGPA
20CE2E29- Water Conservation and Efficiency in Building	71812209004	Bala Abinaya K	8.00
	71812209005	Bharanidharan K	8.50
	71812209006	Bharat Raju K	7.50
	71812209022	Niranjana R A	9.50
	71812209023	Om Shri M	9.50
	71812209028	Rameshkannan J	9.00
	71812209031	Shri Hari Varshaa S	9.50

R2025

- It is resolved that the Proposed Regulations 2025 (Outcome based Curriculum through Choice based Credit System) be approved and passed.

- It is resolved that Regulations 2025 (Outcome based Curriculum through Choice based Credit System,) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2025 and onwards.

Semester –I

S.No	Subjects	Category	Periods			Credits
			L	T	P	
1.	Matrices, Differential Calculus and Transforms	BSC	3	1	0	4
2.	Physics	BSC	2	0	0	2
3.	Chemistry	BSC	2	0	0	2
4.	Electrical Systems for Buildings	ESC	3	0	0	3
5.	Biology for Engineers	BSC	1	0	0	1
6.	Liberal Arts Course I (Tamil I)	LAC	1	0	0	1
7	Architectural Science of Buildings	ESC	2	0	0	2
THEORY CUM PRACTICALS						
8.	Business and Corporate Communication	HSSM	2	0	2	3
PRACTICALS						
9.	Basic Science lab	BSC	0	0	2	1
10.	Engg Practices	ESC	0	0	2	1
11	Engineering Drawing and Drafting	ESC	0	0	2	1
Total						21

Semester –II

S.No	Subjects	Category	Periods			Credits
			L	T	P	
1.	Integral Calculus and Complex Variables	BSC	3	1	0	4
2.	Engineering Mechanics	ESC	3	0	0	3
3	Engineering Geology	ESC	1	0	0	1
4.	Business Essentials for Engineers	HSSM	2	0	0	2
5.	Liberal Arts Course I (Tamil II)	LAC	1	0	0	1
6.	AEC I (AEC I (Functional English))	AEC	2	0	0	2
THEORY CUM PRACTICALS						
7.	Construction Materials and Technology	ESC	2	0	2	3
8.	Modern Surveying	PCC	2	0	3	3
PRACTICALS						
9.	Computer Aided Civil Engineering Drawing	PCC	0	0	2	1
	Total					20

The following suggestions were received from University Nominee- Dr. G. Swaminathan

1. He Suggested to change in the VISION Statement as societal technological challenges instead of societal challenges
2. He appreciated the key words of mission statement and expressed his approval of the mission statement.
3. He proposed eliminating the term AI from the PSO3 Statement.
4. He advised to change the assessment tools citing the extensive workload it imposes on students.
5. He recommended decreasing the number of reviews required for the project work.
6. He proposed changing the title of the course from Engineering Drawing and Drafting to Engineering Graphics.

7. He recommended renaming the course Engineering Drawing and Drafting to Engineering Graphics.
8. He suggested incorporating a simple floor plan experiment into the Computer Aided Civil Engineering Drawing course.
9. He recommended to remove the Lab Experiments 1, 5, and 6 from Engineering Drawing and Drafting and to add in the Computer Aided Civil Engineering Drawing course.
10. He proposed omitting the phrase "all possible methods in the field" from experiment 6 in the Modern Surveying course.
11. He suggested to allot 20 marks for lab cycle test and not to split it into lab cycle test 1 and lab cycle test 2 in the regulation

The following suggestions were received from Expert from IITs - Dr. S. Mathava Kumar

1. He enquired the inclusion of a grading system for the Industrial Training course
Dr.E.Sarojini, Chairperson explained
2. He emphasized that publication should not be made a requirement in the rubrics for the Mini Project and Project.
3. He advised reducing the "Number of Reviews" required for the Project work.
4. He recommended the addition of survey questionnaires to gather data on the costs of various reusable materials as part of the self-learning component in the Construction Materials and Technology course.
5. He suggested eliminating the term "Google pro" from Experiment 8 in the Modern Surveying course and to rename as coordinate system
6. He insisted that Team work or self-learning any ONE assessment tools can be used for 10marks.
7. He suggested to include 2 hours per day for the self-learning assessments.
8. He suggested to remove the course Architectural Science of Buildings from I semester and to add in upcoming semester for the benefit of Lateral Entry students.

The following suggestions were received from Subject Expert from Parent University (Government Organization) -Dr.S.Chithra

1. She recommended reducing the course material for "Architectural Science of Buildings," as the current syllabus is too extensive for first-year students.
2. She proposed incorporating foundational concepts (Basic circuit theory) into the "Electrical Systems for Buildings" course.

- Engineering
3. She advised including content on "Surveying from Offset" while eliminating the Rankine method from the self-learning component of the Modern Surveying course.
 4. She advised to incorporate the content Solid Interface in the course Engineering Drawing and Drafting.

The following suggestions were received from Expert Member from Industry-
Er.R.Prabhudev

1. He proposed eliminating Experiment No. 1 from the Computer Aided Civil Engineering Drawing course and incorporating Electrical and Plumbing Drawing as well as Industrial Drawing instead.

The following suggestions were received from Expert Member from Alumnus-Mr.S.Manoj Kumar

1. He suggested to add "Functional design of Buildings" as one credit course

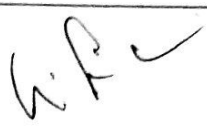
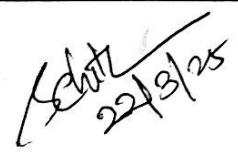
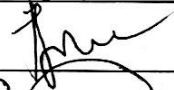
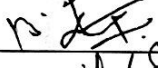
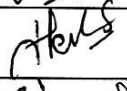
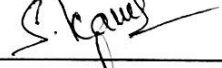
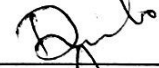
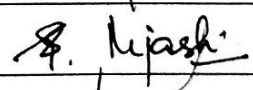
Finally, the experts gave a positive feedback on all the Regulation R25, curriculum and syllabi of the courses and extended an appreciation of the overall contents of the courses aimed to meet higher standards. Dr. E. Sarojini thanked the experts for their valuable suggestions and concluded the meeting.





Chairperson-BoS
CHAIRMAN
Board of Studies

The following members attended the 16th board of studies on 22.03.2025 at 10.30 am.

Name of the Members	Signature
Dr.E.Sarojini,B.E.,M.E.,Ph.D Chairperson-BoS Professor and Head of the Department Sri Ramakrishna Engineering College Coimbatore	
Dr. G. Swaminathan University Nominee Professor (HAG) Department of Civil Engineering National Institute of Technology Tiruchirappalli	
Dr. S. Mathava Kumar Subject Expert from outside the Parent University (IITs) Associate Professor (Environment & Water Resource Engg) EWRE Division Department of Civil Engineering, Indian Institute of Technology Madras ,Chennai	
Dr.S.Chithra Subject Expert from Parent University - Government Organization B.E M.E(Struct)., Ph.D Associate Professor Department of Civil Engineering Government College of Technology, Coimbatore	
Er.R.Prabhudev Industry Expert Proprietor, Arrow Structures RS Puram,Coimbatore	
Mr.S.Manoj Kumar Alumnus (2018-2022 Batch) Engineer Grade-II Craftsman Automation, Coimbatore	
Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	
Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	
Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	
Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	
Dr.S.Hema, ASP/Civil Internal Member	
Dr.S.Kanchana, ASP/Civil Internal Member	
Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	
Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	

Chairperson Board of Studies
Dr.E.Sarojini



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 15th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 15th board of studies meeting on 13.11.2024 at 11.00am in the online platform (Google meet).

The following members have attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr. G. Swaminathan Professor (HAG)	Anna University Nominee
3.	Dr.S.Chithra Associate Professor	Subject Expert from Parent University (Government / Government Aided Organization)
4.	Dr. S. Mathava Kumar Associate Professor	Expert Member from IITs
5.	Er.R.Prabhudev Proprietor	Industrial Expert
6.	Mr.V.Praveen (2012-2016)	Alumnus
7.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	Internal Member
8.	Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	Internal Member
9.	Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	Internal Member
10.	Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	Internal Member
11.	Dr.S.Hema, ASP/Civil Internal Member	Internal Member
12.	Dr.S.Kanchana, ASP/Civil Internal Member	Other faculty members who have attended
13.	Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
14.	Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
15.	Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	
16.	Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed Revised regulations2020 (RR2020) of UG Programme
15th Board of Studies -13.11.2024

for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, were discussed and agreed to follow the same statement. Curriculum and syllabi of Professional electives and NPTEL for the UG students were submitted for approval.

The Proposed Vision, Mission of the Institution were discussed and agreed to follow the revised Vision, Mission of the Institution.

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. Programmes for students admitted in the Academic year 2021 & onwards.
- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 are discussed.

List of Professional Electives

List of Professional Elective Courses										
S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E44	Advanced Construction Techniques	3	0	0	3	1,2,3,4,5,6,7	40	60	100
2.	20CE2E45	Stability of Structures	3	0	0	3	1,2,3,4,12	40	60	100
3.	20CE2E46	Smart Structures	3	0	0	3	1,2,3,4,5,6,12	40	60	100
4.	20CE2E47	Air and Noise Pollution Control	3	0	0	3	1,2,3,5,6,8	40	60	100
5.	20CE2E48	Rainwater Harvesting	3	0	0	3	1,2,6,7	40	60	100
6.	20CE2E49	Environment Law and Policy	3	0	0	3	1,2,6,7,8	40	60	100

- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 are approved and passed.

S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
Professional Electives (PE)										
1.	20CE2E44	Advanced Construction Techniques	3	0	0	3	1,2,3,4,5,6,7	40	60	100
2.	20CE2E45	Stability of Structures	3	0	0	3	1,2,3,4,12	40	60	100
3.	20CE2E46	Smart Materials and Structures	3	0	0	3	1,2,3,4,5,6,12	40	60	100
4.	20CE2E47	Air Pollution and Control	3	0	0	3	1,2,3,5,6,8	40	60	100

5.	20CE2E48	Rainwater Harvesting	3	0	0	3	1,2,6,7	40	60	100
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- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2024.

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc25-ce62	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc25-ce40	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principle of Microwave, Thermal and Hyper Spectral Remote Sensing
3.	noc25-ce11	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 & Construction Quality and Safety Management
4.	noc25-ar03	Environmental Impact Assessment	3	12 Weeks	20CE2E27 & Environmental Impact Assessment
5.	noc25-ce15	Electronic Waste Management - Issues And Challenges	1	4 Weeks	20CE2E10 & Hazardous and E-waste Management
6.	noc25-ce40	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principles of Microwave, Thermal And Hyper spectral Remote Sensing
7.	noc25-ce13	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 & Digital Land Surveying And Management
8.	noc25-ce19	Environmental Remediation of Contaminated Sites	3	12 Weeks	20CE2E20 & Environmental Remediation of Contaminated Sites
9.	noc25-ce20	Expansive Soil	2	8 Weeks	20CE2E38 & Foundation in Expansive Soils

- It is resolved that the Result Analysis for the Academic Year 2023 – 2024 (Semesters VIII / VI/ IV/II) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1.	2020 Batch	63	63	100
2.	2021 Batch	41	38	78.95
3.	2022 Batch	55	50	28
4.	2023 Batch	53	48	50

- It is resolved that the following students are eligible for Credit Transfer through NPTEL Course during June 2023- October 2023 under Choice Based Credit System as per RR2020 regulation are approved and passed.

S. No	Register Number	Name	Course Code	Name of the NPTEL Course	Course Duration	Credits	Marks Secured
1.	2109011	Gowtham R	noc24-ar03	Environmental Impact Assessment	12 weeks	3	75
2.	2109019	Naveen Balaji M	noc24-ar03	Environmental Impact Assessment	12 weeks	3	68

- It is resolved that the following Mandatory courses be approved for the student in B.E. Civil Engineering degree programme

S. No.	Category	Course Title	Year of Admission	No of students completed during 2023 – 24
1.	Non Credited Mandatory Courses	Allied Skills – Technical Certification	2021	01
2.		Allied Skills – Technical Certification	2022	02

- It is resolved that the following students had completed 6 weeks of internship/Live in lab training be approved for the student in B.E. Civil Engineering degree programme

Batch: 2021 - 2025

S.No	Internship/Live in lab	No. of Students Completed
1.	Internship	37 41

- It is resolved that the Result Analysis for the Direct self-study students for the Academic Year 2023-2024 (April/May 2024) –are approved and passed.

S.No	Register Number of Candidates	Name of the Candidate	Sem	Course Code	Course Title	Grade	CGPA
1.	71812209004	BALA ABINAYA K	04	20CE2 E11	Municipal Solid Waste Management	A	7.8
2.	71812209005	BHARANIDHARAN K				B+	7.5
3.	71812209008	DHANALAKSHMI S				A+	8.35
4.	71812209015	KAVIN A				B+	-
5.	71812209017	KOWSALYA S				B+	8.33
6.	71812209022	NIRANJANA R A				A	8.5
7.	71812209023	OM SHRI M				A	8.71
8.	71812209025	PRIYADARSINI A				A	8.01
9.	71812209026	RAHUL V				-	-
10.	71812209028	RAMESHKANNAN J				B+	-
11.	71812209029	SANAKIYAN A				-	-
12.	71812209030	SHALINI M				A	8.21
13.	71812209031	SHRI HARI VARSHAA S				A	8.96
14.	71812209033	VIJAY ASWATH S				A	7.96
15.	71812209036	VISHVASHREE G				A	8.16
16.	71812209039	NISHA GOPIKA D				B+	7.18

ough NPTEL
tem as per
marks

17.	71812209040	ASHWANTH S P				A	8.64
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- It is resolved that the Result Analysis for the Academic Year 2023-2024 (April/May 2024) – for specialization course – Green Technology are approved and passed.

Specialization Course Details	Register No. of the Candidate	Name	CGPA
20CE2E33- Green Building Rating Systems	71812109026	I.Rubina	9.75
	71812109006	N.Asmin Varsha	9.00
	71812109004	U.Arun Prasad	8.00
	71812109033	N V Darshana	8.50
20CE2E30- Energy Conservation and Management	71812109001	A.Andrew Singh	7.25
	71812109009	M. Dhevharshini	9.00
	71812109019	M.Naveen Balaji	8.50
	71812109023	V.Prasanth.	7.25
	71812109022	V.Pranesh	7.50

Suggestion by Expert Members on new Professional elective courses

1. Dr. G. Swaminathan and Dr. S. Mathava Kumar suggested adding the case studies relevant to AI & ML in the course Smart Structures.
2. Dr. G. Swaminathan, Dr.S.Chithra and Dr. S. Mathava Kumar appreciated the course content for the courses Advanced Construction Techniques, Stability of Structures and Smart Structures.
3. Dr. G. Swaminathan and Dr. S. Mathava Kumar suggested revising the latest edition text and reference books for the course Structural stability and smart structures.
4. Dr. G. Swaminathan, Dr.S.Chithra and Dr. S. Mathava Kumar suggested renaming the Smart Structures course as Smart Materials and Structures.
5. Dr. G. Swaminathan, Dr.S.Chithra and Dr. S. Mathava Kumar suggested removing Noise Pollution Control content from the course Air and Noise Pollution Control and to add the contents of Air modeling.
6. Dr. G. Swaminathan, Dr.S.Chithra and Dr. S. Mathava Kumar suggested renaming Air and Noise Pollution Control as Air Pollution and Control
7. Dr. G. Swaminathan, Dr.S.Chithra and Dr. S. Mathava Kumar appreciated the course content for the courses Rain water harvesting.
8. Dr. G. Swaminathan suggested to include only one prerequisite course for the courses Stability of Structures and Smart Structures.

9. Dr. G. Swaminathan Dr.S.Chithra and Dr. S. Mathava Kumar suggested to remove Environment Law and Policy course as the course content is in higher level for the UG students to cope up.

LIST OF CONTENTS

- Vision & Mission of Institution
- Vision & Mission of department
- PEOs & PSOs
- Credit System
- Curriculum
- Professional Elective - Vertical Courses
 - Structural Design
 - Environmental Sustainability
 - Infrastructure Management
 - Geotechnics
 - Geospatial Management System
 - Interdisciplinary Electives
- Green Technology (Specialization/Minor)
- NPTEL Courses** as on 12.11.2024

SRI RAMAKRISHNA ENGINEERING COLLEGE
Vision & Mission of SREC

Vision of Institution
To develop into a leading world class Technological University consisting of Schools of Excellence in various disciplines with a co-existent Centre for Engineering Solutions Development for world-wide clientele.

Mission of Institution
To provide all necessary inputs to the students for them to grow into knowledge engineers and scientists attaining Excellence in domain knowledge- practice and theory. Excellence in co-curricular and Extra curricular talents. Excellence in character and personality.

Proposed Vision

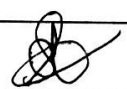
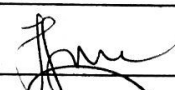
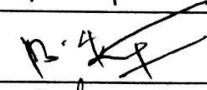
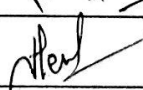
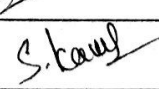
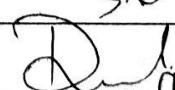
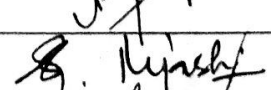
PROPOSED VISION	PROPOSED MISSION	Key Indicators	M1	M2	M3	M4
To become a world-class university excelling in multidisciplinary engineering education through cutting-edge technologies and impactful societal contributions for sustainable development	Provide quality education that nurtures analytical and managerial skills for future professionals. (Bolster Quality Engineering Education) (M1)	Multidisciplinary Engineering	1	1	1	1
	Nurture creativity, innovation and research ecosystem for local and global needs. (Encourage Research and Innovation) (M2)	Cutting-edge technologies	1	1	1	1
	Foster ethics, leadership, entrepreneurial and life skills for holistic development. (Foster Holistic Growth) (M3)	Impactful societal contributions	1	1	1	1
	Develop technological solutions that enhance sustainability and societal well-being through collaborations. (Contribute to Sustainable Development) (M4)	Sustainable development	1	1	1	1

Chairperson Board of Studies

Dr.E.Sarojini

CHAIRMAN
Board of Studies

The following members attended the 15th board of studies on 13.11.2024 at 11.00 am.

Name of the Members	Signature
Dr.E.Sarojini,B.E.,M.E.,Ph.D Chairperson-BoS Professor and Head of the Department Sri Ramakrishna Engineering College Coimbatore-641022	
Dr. G. Swaminathan University Nominee Professor (HAG) Department of Civil Engineering National Institute of Technology Tiruchirappalli	Attended through Online Mode gs@nitt.edu
Dr. S. Mathava Kumar Subject Expert from outside the Parent University (IITs) Associate Professor (Environment & Water Resource Engg) EWRE Division Department of Civil Engineering, Indian Institute of Technology Madras ,Chennai	Attended through Online Mode mathav@civil.iitm.ac.in
Dr.S.Chithra Subject Expert from Parent University (Government / Government Aided Organization) B.E M.E(Struct)., Ph.D Associate Professor Department of Civil Engineering Government College of Technology Thadagam Road , Coimbatore	Attended through Online Mode chithras_civil@gct.ac.in
Er.R.Prabhudev Industry Expert Proprietor Arrow Structures RS Puram Coimbatore	Attended through Online Mode prabhudev0207@gmail.com
Mr.V.Praveen Alumnus (2012-2016 Batch) Assistant Engineer Highway Department Chennai	Attended through Online Mode civil.1209032@srec.ac.in
Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	
Mrs.J.Jayashree, AP(Sl.Gr)/Civil Internal Member	
Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	
Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	
Dr.S.Hema, ASP/Civil Internal Member	
Dr.S.Kanchana, ASP/Civil Internal Member	
Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
Mrs.K.Saranya, AP(Sr.Gr)/Civil Internal Member	
Mrs.S.Rajalakshmi, AP(Sr.Gr)/Civil Internal Member	

Chairperson Board of Studies
Dr.E.Sarojini



SRI RAMAKRISHNA ENGINEERING COLLEGE

[Educational Service: SNR Sons Charitable Trust]
[Autonomous Institution, Reaccredited by NAAC with 'A+' Grade]
[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]
[ISO 9001:2015 Certified and all eligible Programmes Accredited by NBA]
VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.



DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 14th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 14th board of studies meeting on 25.03.2024 at 10.30am in the Civil Board room of Sri Ramakrishna Engineering College.

The following members have attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr.P.Ramadoss	Anna University Nominee
3.	Dr.S.Shantha Kumar	Subject Expert (Other University)
4.	Dr.V.Sunitha	Expert Member from NITs (Online Mode)
5.	Er.S.Magesh	Industrial Expert
6.	Mr.G. Jayasurya	Alumni Member
7.	Dr.K.Sukkiramathi, AP(Sr.Gr)/Mathematics Internal Member	Internal Member
8.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	Internal Member
9.	Mrs.J.Jayashree, AP(Sr.Gr)/Civil Internal Member	Internal Member
10.	Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	Internal Member
11.	Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	Internal Member
12.	Dr.S.Hema, ASP/Civil Internal Member	Internal Member
13.	Dr.S.Kanchana, ASP/Civil Internal Member	Other faculty members who have attended
14.	Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
15.	Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
16.	Mrs.K.Saranya, AP/Civil Internal Member	
17.	Mrs.S.Rajalakshmi, AP/Civil Internal Member	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed Revised regulations2020 (RR2020) of UG Programme

for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, were discussed and agreed to follow the same statement. Curriculum and syllabi of Professional electives and NPTEL for the UG students were submitted for approval.

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2024 & onwards.
- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

List of Professional Electives

S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
Professional Electives (PE)										
Group Electives as per the Verticals										
I. STRUCTURAL DESIGN										
1.	20CE2E01	Prefabricated Concrete Structures	3	0	0	3	1,2,4,5	40	60	100
2.	20CE2E02	Design of Bridges	3	0	0	3	1,2,3,6,7	40	60	100
3.	20CE2E03	Prestressed Concrete Structures	3	0	0	3	1,2	40	60	100
4.	20CE2E16/20CE2E39	Finite Element Analysis/Matrix Methods of Structural Analysis	3	0	0	3	1,2,3,4,6,8	40	60	100
							1,2,3,4			
5.	20CE2E23	Tall Buildings	3	0	0	3	1,2,3,4,6,8	40	60	100
6.	20CE2E37	Advanced Steel Design	3	0	0	3	1, 2, 3,4, 5,12	40	60	100
II. ENVIRONMENTAL SUSTAINABILITY										
1.	20CE2E09	Clean Technology	3	0	0	3	1,2,3,5,7	40	60	100
2.	20CE2E10	Hazardous And E-waste Management	3	0	0	3	1,2,7	40	60	100
3.	20CE2E11	Municipal Solid Waste management	3	0	0	3	1,2,7	40	60	100
4.	20CE2E20	Environmental Remediation of Contaminated Sites	3	0	0	3	1,2,5,6,7,8	40	60	100
5.	20CE2E27	Environmental Impact Assessment	3	0	0	3	1,5,6,7,11	40	60	100
6.	20CE2E38	Industrial Waste Management	3	0	0	3	1,2,3,5,6,7,8	40	60	100

agreed to

20CE2E24/20CE2E04	Environmental Modeling and Simulation / Climate Responsive Design	3	0	0	3	1,2,3,5,6,7,12	40	60	100
						1,2,3,5,7			

III. INFRASTRUCTURE MANAGEMENT

1.	20CE2E05	Airport And Harbour Engineering	3	0	0	3	1,2,3,6,7	40	60	100
2.	20CE2E06	Urban Transportation Planning	3	0	0	3	1,3,7	40	60	100
3.	20CE2E14	Construction Quality and Safety Management	3	0	0	3	1,2,5,6,11,12	40	60	100
4.	20CE2E15	Project Planning and Management	3	0	0	3	1,2,5,6,11,12	40	60	100
5.	20CE2E17	Multimodal Transport System	3	0	0	3	1,2,3,5,6,7,8	40	60	100
6.	20CE2E19	Construction Economics and Finance	3	0	0	3	1,5,8,9,11,12	40	60	100

IV. GEOTECHNICS

1.	20CE2E07	Ground Improvement Techniques	3	0	0	3	1,2	40	60	100
2.	20CE2E08	Geo-environmental Engineering	3	0	0	3	1,2	40	60	100
3.	20CE2E18	Rock Mechanics and Tunnelling	3	0	0	3	1,2,3,4,8	40	60	100
4.	20CE2E22	Underground Space Utilization	3	0	0	3	1,2,3,5,6,12	40	60	100
5.	20CE2E40	Foundation in Expansive Soils	3	0	0	3	1, 2, 3,5,6,8	40	60	100
6.	20CE2E41	Geotechnical Earthquake Engineering	3	0	0	3	1,2, 3,5,6,8	40	60	100

V. GEOSPATIAL MANAGEMENT SYSTEM

1.	20CE2E12	Principles of Microwave, Thermal And Hyper Spectral Remote Sensing	3	0	0	3	1,5,11	40	60	100
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2.	20CE2E13	Digital Land Surveying and Management	3	0	0	3	1,2,5,10,11	40	60	100
3.	20CE2E21	Spatial Planning and Management of Urban Areas	3	0	0	3	1,2,5,6,7,8,12	40	60	100
4.	20CE2E26	Urban Planning and Development	3	0	0	3	1,2,3,4,5,8,9,10,11,12	40	60	100
5.	20CE2E42	Remote Sensing and GIS in Agriculture Soil and Land Evaluation Studies	3	0	0	3	1,2,5,6,7,8	40	60	100
6.	20CE2E43	Remote Sensing and GIS in Environmental Science	3	0	0	3	1,2,5,6,7,8	40	60	100

VII. Green Technology (Specialization/Minor)

(Students should earn more than 18 credits)

1.	20CE2E28	Sustainable Site Planning	3	0	0	3	1,2,3,5,7	40	60	100
2.	20CE2E29	Water Conservation and Efficiency in Buildings	3	0	0	3	1,2,5,6,8,12	40	60	100
3.	20CE2E30	Energy Conservation and Management	3	0	0	3	1,2,5,7,8,12	40	60	100
4.	20CE2E31	Green Building Materials and Sustainable Design	3	0	0	3	1,2,5,7,8,12	40	60	100
5.	20CE2E32	Indoor Air Quality Monitoring and Management	3	0	0	3	1,2,5,7,8,12	40	60	100
6.	20CE2E33	Green Building Rating Systems	3	0	0	3	1,2,5,7,8,12	40	60	100
7.	20CE2E34	Day lighting and ventilation	1	0	0	1	1,2,5,7,8,12	40	60	100
8.	20CE2E35	Building Automation	1	0	0	1	1,2,5,7,8,12	40	60	100
9.	20CE2E36	Training course/Certification course	1	0	0	1	1,2,5,7,8,12	40	60	100

VI. Diversified Electives

	20ME2E11	Computational Fluid Dynamics	3	0	0	3	1, 2, 3,4, 5, 7	40	60	100
2.	20CE2E25	Building Services	3	0	0	3	1,2,3,4,6,7,8	40	60	100
3.	20CE2E50	Optimization Techniques in Civil Engineering	3	0	0	3	1, 2, 3,4	40	60	100

➤ It is resolved that the following NPTEL courses are approved for credit transfer during April/May 2024.

S. No.	Course Code	Course Title	Credits	Couse Duration	Equivalent Professional / Open Elective in SREC curriculum
1.	noc23_ce81	Bridge Engineering	3	12 Weeks	20CE2E02 - Design of Bridges
2.	noc23_ar16	Sustainable Architecture	3	12 Weeks	20CE2E04 - Climate Responsive Design / 20CE2E28 - Sustainable Site Planning
3.	noc24_de01	Strategies for Sustainable Design	3	12 Weeks	20CE2E04 - Climate Responsive Design / 20CE2E28 - Sustainable Site Planning
4.	noc24_ce37	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 - Urban Transportation Planning
5.	noc23_ce78	Ground Improvement	3	12 Weeks	20CE2E07 - Ground Improvement Techniques
6.	noc23_ch73	Technologies for Clean and Renewable Energy Production	2	8 Weeks	20CE2E09 – Clean Technology
7.	noc23_ce25	Electronic Waste Management - Issues And Challenges	1	4 Weeks	20CE2E10 - Hazardous And E-waste Management
8.	noc23_ce66	Municipal Solid Waste management	3	12 Weeks	20CE2E11 - Municipal Solid Waste management
9.	noc24_ce24	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 - Principles of Microwave, Thermal And Hyper spectral Remote Sensing
10.	noc23_ce05	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 - Digital Land Surveying And Management
11.	noc24_ce07	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 - Construction Quality And Safety

					Management
12.	noc23_ce81	Introduction to Multimodal Urban Transportation System	3	12 Weeks	20CE2E17 - Multimodal Transportation System
13.	noc24_ce11	Environmental Remediation of Contaminated Sites	3	12 Weeks	20CE2E20 - Environmental Remediation of Contaminated Sites
14.	noc24_ar03	Environmental Impact Assessment	3	12 Weeks	20CE2E27 - Environmental Impact Assessment
15.	noc24_ce47	Energy Efficiency, Acoustics and Daylighting in building	3	12 Weeks	20CE2E30 - Energy Conservation and Management
16.	-	Sustainable Materials and Green Buildings	3	12 Weeks	20CE2E31 - Green Building Materials and Sustainable Design
17.	noc24_ce12	Expansive Soil	2	8 Weeks	20CE2E38 - Foundation in Expansive Soils
18.	noc23_ce101	Geotechnical Earthquake Engineering	3	12 Weeks	20CE2E39 - Geotechnical Earthquake Engineering
19.	noc23_ce87	Matrix Method of Structural Analysis	2	8 Weeks	20CE2E45 - Matrix Methods of Structural Analysis
20.	noc23_oe02	Advanced Design of Steel Structures	3	12 Weeks	

- It is resolved that the Result Analysis for the Academic Year 2023 – 2024 (Semesters VII / V/ III/I) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1.	2020 Batch	63	51	80.95
2.	2021 Batch	39	13	33.33
3.	2022 Batch	53	18	33.96
4.	2023 Batch	53	34	64.15

- It is resolved that the following Mandatory courses be approved for the student in B.E. Civil Engineering degree programme

Batch: 2020 - 2024

S. No	Mandatory Course	Course Code	No. of Students Completed
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1.	National Service Scheme	20MC204	2
2.	Soft Skills - Leadership & Workplace Etiquette	20MC208	9
3.	Yi Yuva	20MC222	43
4.	Technical Certification	20MC275	10

Batch: 2021 - 2025

S. No	Mandatory Course	Course Code	No. of Students Completed
1.	Indian Geotechnical Society	20MC092	14
2.	Sports & Games	20MC201	8
3.	Soft Skills - Leadership & Workplace Etiquette	20MC208	5
4.	Tamil Mandram	20MC212	1
5.	Uyir Club	20MC221	5
6.	Yi Yuva	20MC222	8
7.	Technical Certification	20MC275	40

- It is resolved that the following students had completed 6 weeks of internship/Live in lab training be approved for the student in B.E. Civil Engineering degree programme

Batch: 2020 - 2024

S.No	Internship/Live in lab	No. of Students Completed
1.	Internship	57
2.	Live in lab	6

- It is resolved that the Result Analysis for the Academic Year 2023 – for specialization course – Green Technology are approved and passed.

Specialization Course Details	Register No. of the Candidate	Name	CGPA
20CE2E32-Indoor air quality monitoring and management	71812109026	I.Rubina	8.59
	71812109006	N.Asmin Varsha	7.92
	71812109004	U.Arun Prasad	-
	71812109033	N V Darshana	7.96
	71812109001	A.Andrew Singh	-
	71812109009	M. Dhevddharshini	7.53

20CE2E29- Water Conservation and efficiency in buildings	71812109019	M.Naveen Balaji	8.42
	71812109023	V.Prasanth.	-
	71812109022	V.Pranesh	-

- It is resolved that the following Verticals course category shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022.

- Structural Design
- Environmental Sustainability
- **Infrastructure Management**
- Geotechnics
- Geospatial Management System
- **Health monitoring of structures**

Suggestion by Expert Members on Professional electives courses

1. Dr.P.Ramados and Dr.S.Shanthakumar suggested to rearrange the text books in the course Matrix Methods of Structural Analysis.
2. Dr.P.Ramados suggested renaming the Foundation in Expansive Soils course as Foundation in Expansive Soils and soil stabilization.
3. Dr.P.Ramados suggested adding deep foundation for expansive soil in the course Foundation in Expansive Soils.
4. Dr.P.Ramados and Dr.S.Shanthakumar suggested revising the latest edition codebooks as reference books in the course Foundation in Expansive Soils.
5. Dr.P.Ramados suggested removing the repeated words in the course Geotechnical Earthquake Engineering.
6. Dr.P.Ramados, Er.S.Magesh and Dr.S.Shanthakumar suggested adding the contents area of zones, district hazard analysis, and micro zonation for Chennai city as case study in the course Geotechnical Earthquake Engineering.
7. Dr.P.Ramados, Er.S.Magesh and Dr.S.Shanthakumar suggested revising the latest edition codebooks as reference books in the course Geotechnical Earthquake Engineering
8. Dr.P.Ramados and Dr.S.Shanthakumar suggested renaming the Remote Sensing & GIS in Agriculture, Soil and Land Evaluation Studies as Remote Sensing & GIS in Agriculture, Soil and Land Evaluation.
9. Mr.G. Jayasurya suggested to rename the module I topic to spectral characteristic of crops in the course Remote Sensing & GIS in Agriculture Soil and Land Evaluation Studies

10. Dr.S.Shanthakumar suggested adding the word remote sensing and GIS wherever applicable in the course Remote Sensing & GIS in Agriculture, Soil and Land Evaluation Studies
11. Dr.S.Shanthakumar suggested Renaming the course title Remote Sensing & GIS in Environmental Science to Remote Sensing & GIS in Environment and disaster management.
12. Dr.S.Shanthakumar suggested removing the content Assessment and management using Remote Sensing & GIS for Nuclear fuel in III module to Oil spills in marine in the course Remote Sensing & GIS in Environmental Science and disaster management
13. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested updating the publisher details in the textbook for the course Structural Health Monitoring & Retrofitting of Structures.
14. Dr.P.Ramadoss suggested to reduce the content for the course Structural Health Monitoring & Retrofitting of Structures as it is too vast.
15. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested renaming the course tile as Fundamental and basics of Structural Health Monitoring instead of course Structural Health Monitoring & Retrofitting of Structures.
16. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested adding polymer based fiber as function of filler in the course Smart Structures.
17. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested renaming the word Mixing Proportion Design to Mix Proportion Design in the course Smart Structures.
18. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested expanding the abbreviation at least one time in all the health monitoring of structures courses.
19. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested renaming the course title structural health monitoring for transportation systems to Intelligent Transport System.
20. Dr.P.Ramadoss suggested making the syllabus content to five modules for the course Intelligent Buildings and Non-Destructive Evaluation.
21. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested reframing the course content for Intelligent Buildings and Non-Destructive Evaluation to three modules to intelligent building and two modules to NDT, as there is no sequence of flow.
22. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested adding the applications of structural health monitoring in historical buildings, Structural health monitoring of a bridge -Applications for external post-tensioned cables the buildings, Introduction to capacitive methods, Capacitive probe for cover concrete.

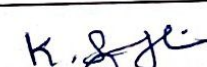
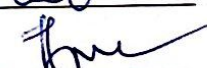
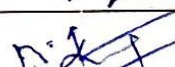
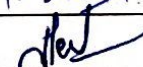
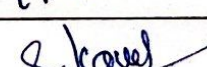
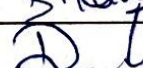
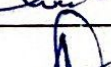
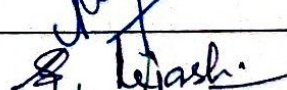
23. Dr.P.Ramadoss, Er.S.Magesh and Dr.S.Shanthakumar suggested renaming the course Synthesis of Functional Materials, Sensors and Transducers as Nano materials, sensors and Transducers.
24. Mr.G. Jayasurya suggested adding sheet metal design content in the course Optimization Techniques in Civil Engineering.


Chairperson Board of Studies

Dr.E.Sarojini

CHAIRMAN
Board of Studies

Following members attended the 14th board of studies on 25.03.2024 at 10.30 am.

Name of the Members	Signature
Dr.E.Sarojini,B.E.,M.E.,Ph.D Chairperson-BoS Professor and Head of the Department Sri Ramakrishna Engineering College Coimbatore-641022	
Dr.P.Ramadoss, M.E., Ph.D., MISTE, MIE, MICI, MISTE University Nominee Professor-Department of Civil Engineering Pondicherry Engineering College Pillaichavady, Puducherry.	
Dr.S.Shantha Kumar, Ph.D., FIE, C.Eng(I), M.ASCE, M.IWA (Australian Endeavour Awardee) Subject Expert (Other University) Professor, Department of Environment and Water Resources Engineering School of Civil Engineering Vellore Institute of Technology, Vellore.	
Dr. V. Sunitha, B.Tech., M.Tech., Ph.D. Expert from NITs Assistant Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.	Through Mail
Er.S.Magesh Industry Expert, Principal Consultant & Co-Founder, LEED GA IGBC AP GEM CP Auger Engineers, Green Building design Consultants Anna Nagar, Chennai.	
Mr.G. Jayasurya Alumnus (2018-2022 Batch) Graduate Trainer Craftsman Automation, Coimbatore	
Dr.K.Sukkiramathi, AP(Sl.Gr)/Mathematics Internal Member	
Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	
Mrs.J.Jayashree, AP(Sr.Gr)/Civil Internal Member	
Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	
Mr.B.Kamal, AP(Sr.Gr)/Civil Internal Member	
Dr.S.Hema, ASP/Civil Internal Member	
Dr.S.Kanchana, ASP/Civil Internal Member	
Dr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
Mr.D.Ramakrishnan, AP(Sr.Gr)/Civil Internal Member	
Mrs.K.Saranya, AP/Civil Internal Member	
Mrs.S.Rajalakshmi, AP/Civil Internal Member	

Chairperson Board of Studies
Dr. E. Sarojini



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VATTAMALAIPALAYAM, N.G.G.O. COLONY POST, COIMBATORE – 641 022.



DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 13th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 13th board of studies meeting on 06.11.2023 at 10.15 am in in Online Platform.

The following members has attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr.P.Ramadoss	Anna University Nominee
3.	Dr.S.Shantha Kumar	Subject Expert (Other University)
4.	Dr.V.Sunitha	Expert Member from NITs
5.	Er.S.Magesh	Industrial Expert
6.	Mr.G. Jayasurya	Alumni Member
7.	Dr.S.Hema, ASP-Civil	Internal Member
8.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)-Civil	Internal Member
9.	Mrs.J.Jayashree, AP(Sr.G)-Civil	Internal Member
10.	Mr.V.Parthiban, AP(Sr.Gr)-Civil	Internal Member
11.	Mr.B.Kamal, AP(Sr.Gr)-Civil	Internal Member
12.	Dr.S.Kanchana, ASP-Civil	Other faculty members who have attended
13.	Mr.A.Dinesh, AP(Sr.Gr)-Civil	
14.	Mr.D.Ramakrishnan, AP(Sr.Gr)-Civil	
15.	Mrs.K.Saranya, AP-Civil	
16.	Mrs.S.Rajalakshmi, AP-Civil	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed RR2020 regulations of UG Programme for Civil Engineering. The Vision, Mission, PEO's, PSO's, were discussed and agreed to follow the same statement. Curriculum and syllabi of Professional elective Courses, One-credit courses and Value added Courses for the UG students were submitted for approval.

- It is resolved that Revised Regulation 2020 (Learning Outcome based Curriculum through Choice based Credit) will be followed for all B.E./B.Tech. programmes for students admitted in the Academic year 2023 & onwards.
- It is resolved that the syllabi for the following new Professional Elective courses under (Revised) Regulations 2020 be approved and passed.

List of Professional Electives

20CE2E37	Advanced Steel Design
20CE2E38	Computational Fluid Dynamics
20CE2E39	Industrial Waste Management

- It is resolved that the following new one credit courses will be included under (Revised) Regulations 2020 for B.E Civil Engineering programme.

List of One- Credit Courses

20CEI020	Sketchup
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- It is resolved that the following Value added courses will be included under (Revised) Regulations 2020 for B.E Civil Engineering programme.

List of Value Courses

Analysis and Design of Structures Using ETABS
Geospatial Applications in Civil Engineering

- It is resolved that the following NPTEL courses are approved for credit transfer during Nov/Dec 2023

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc24-ce37	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc24-ce24	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principle of Microwave,

					Thermal and Hyper Spectral Remote Sensing
3.	noc24-ce07	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 & Construction Quality and Safety Management
4.	noc24-ar03	Environmental Impact Assessment	3	12 Weeks	Environmental Impact Assessment

- It is resolved that the Result Analysis for the Academic Year 2022 – 2023 (Semesters VIII / VI/ IV/II) are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1.	2019 Batch	53	53	100
2.	2020 Batch	57	25	43.86
3.	2021 Batch	39	14	35.9
4.	2022 Batch	37	32	86.49

- It is resolved that the following candidates who have registered for additional credits during Nov/Dec 2023 examination under the Specialization courses category shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022.

Specialization Course Details	Course Code and Title	Register No. of the Candidate	Name	CGPA
Green Technology	20CE2E29-Water Conservation and Efficiency in Buildings & 20CE2E32-Indoor Air Quality Monitoring and Management	71812109026	I.Rubina	8.49
		71812109006	N.Asmin Varsha	7.94
		71812109004	U.Arun Prasad	-
		71812109033	N V Darshana	7.83
		71812109001	A.Andrew Singh	-
		71812109009	M. Dhevharshini	7.53
		71812109019	M.Naveen Balaji	-
		71812109023	V.Prasanth.	6.88
		71812109022	V.Pranesh	-

- It is resolved that the following Verticals courses category shall be approved according to the communication from Anna University, Chennai via Letter No. 5749/AU/CAC/Honours/2022 dated 16.11.2022.

- Structural Design
- Environmental Sustainability
- Infrastructure Management
- Geotechnics
- Geospatial Management System

I.STRUCTURAL DESIGN										
S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E01	Prefabricated Concrete Structures	3	0	0	3	1,2,4,5	40	60	100
2.	20CE2E02	Design of Bridges	3	0	0	3	1,2,3,6,7	40	60	100
3.	20CE2E03	Prestressed Concrete Structures	3	0	0	3	1,2,	40	60	100
4.	20CE2E16	Finite Element Analysis	3	0	0	3	1,2,3,4,6,8	40	60	100
5.	20CE2E23	Tall Buildings	3	0	0	3	1,2,3,4,6,8	40	60	100

II. ENVIRONMENTAL SUSTAINABILITY										
S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E04	Climate Responsive Design	3	0	0	3	1,2,3,5,7	40	60	100
2.	20CE2E09	Clean Technology	3	0	0	3	1,2,3,5,7	40	60	100
3.	20CE2E10	Hazardous And E-waste Management	3	0	0	3	1,2,7	40	60	100

4.	20CE2E11	Municipal Solid Waste management	3	0	0	3	1,2,7	40	60	100
5.	20CE2E20	Environmental Remediation of Contaminated Sites	3	0	0	3	1,2,5,6,7,8	40	60	100
6.	20CE2E24	Environmental Modeling and Simulation	3	0	0	3	1,2,5,6,7,12	40	60	100
7.	20CE2E27	Environmental Impact Assessment	3	0	0	3	1,5,6,7,11	40	60	100

III. INFRASTRUCTURE MANAGEMENT

S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E05	Airport And Harbour Engineering	3	0	0	3	1,2,3,6,7	40	60	100
2.	20CE2E06	Urban Transportation Planning	3	0	0	3	1,3,7	40	60	100
3.	20CE2E14	Construction Quality and Safety Management	3	0	0	3	1,2,5,6,11,12	40	60	100
4.	20CE2E15	Project Planning and Management	3	0	0	3	1,2,5,6,11,12	40	60	100
5.	20CE2E17	Multimodal Transport System	3	0	0	3	1,2,3,5,6,7,8	40	60	100
6.	20CE2E19	Construction Economics and Finance	3	0	0	3	1,5,8,9,11,12	40	60	100
7.	20CE2E25	Building Services	3	0	0	3	1,2,3,4,6,7,8	40	60	100

IV. GEOTECHNICS

S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E07	Ground Improvement Techniques	3	0	0	3	1,2	40	60	100
2.	20CE2E08	Geo-environmental Engineering	3	0	0	3	1,2	40	60	100
3.	20CE2E18	Rock Mechanics and Tunnelling	3	0	0	3	1,2,3,4,8	40	60	100
4.	20CE2E22	Underground Space Utilization	3	0	0	3	1,2,3,5,6,12	40	60	100

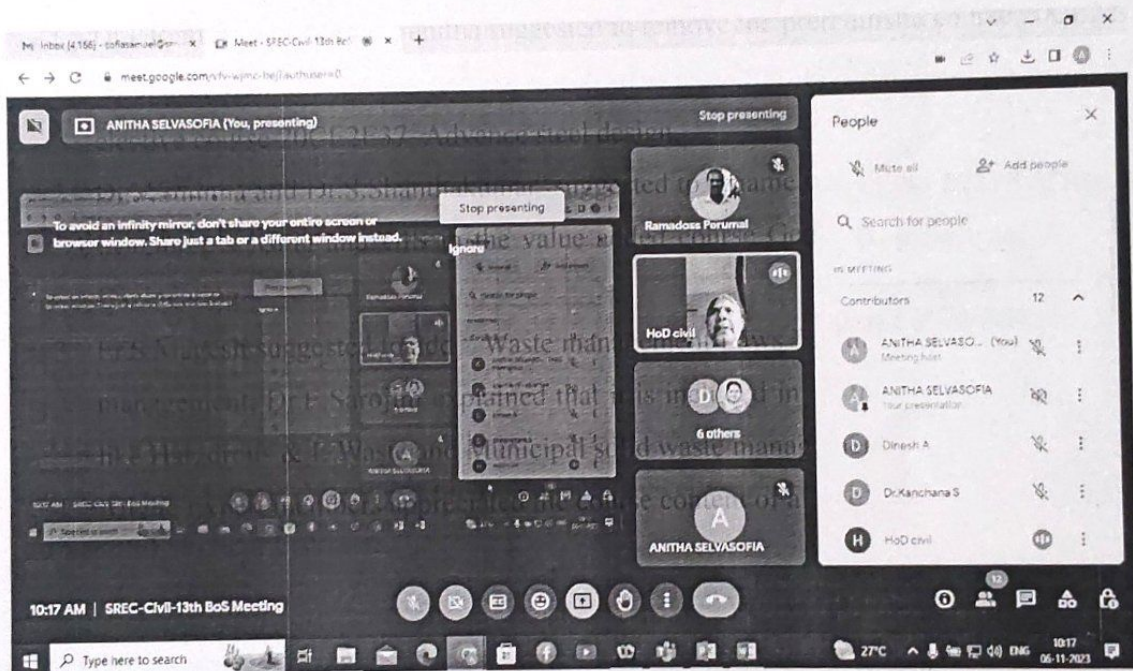
V. GEOSPATIAL MANAGEMENT SYSTEM

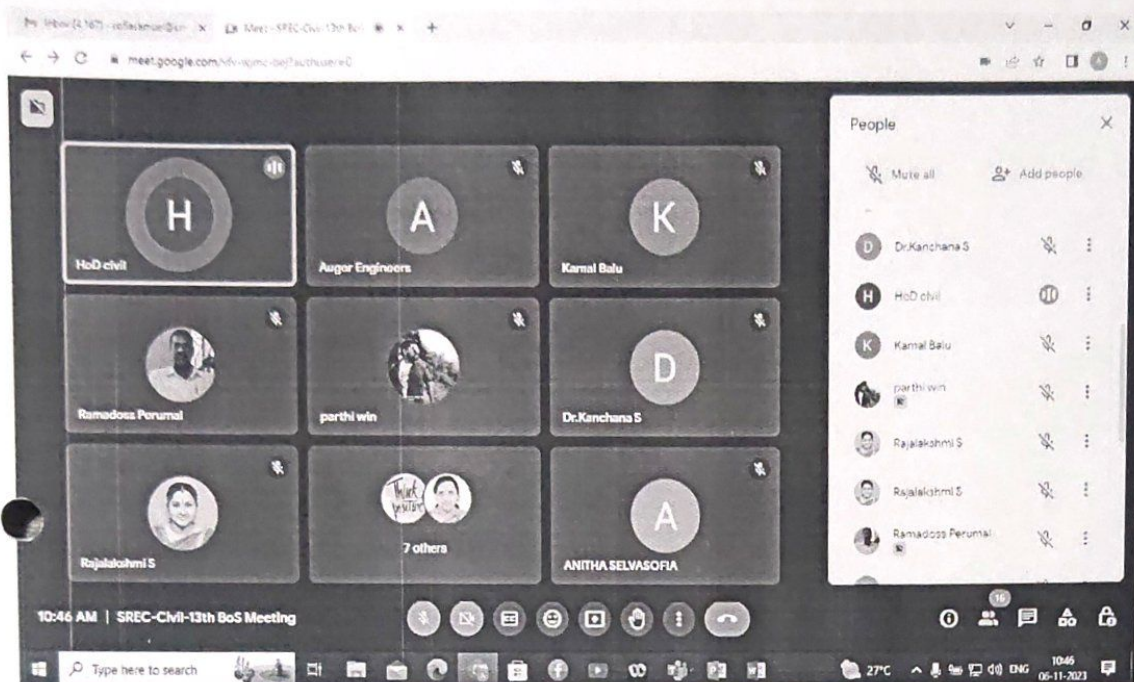
S.No	Course Code	Course Title	L	T	P	C	POs	CA	ES	Total
1.	20CE2E12	Principles of Microwave, Thermal And Hyper Spectral Remote Sensing	3	0	0	3	1,5,11	40	60	100
2.	20CE2E13	Digital Land Surveying and Management	3	0	0	3	1,2,5,10,11	40	60	100
3.	20CE2E21	Spatial Planning and Management of Urban Areas	3	0	0	3	1,2,5,6,7,8,12	40	60	100

4.	20CE2E26	Urban Planning and Development	3	0	0	3	1,2,3,4,5,8,9, 10,11,12	40	60	100
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Suggestion by Expert Members on Professional electives, one credit course, value added courses and Vertical Courses.

1. Dr.P.Ramadoss and Dr.V.Sunitha suggested to remove the prerequisite course 20CE227 Design of Reinforced Concrete and Steel Structures from the newly added professional elective course 20CE2E37- Advance steel design.
2. Dr.V.Sunitha and Dr.S.Shanthakumar suggested to rename the Module-III as Application of remote sensing and GIS in the value added course Geospatial Applications in Civil Engineering
3. Er.S.Magesh suggested to add " Waste management Laws " in the course Industrial waste management, Dr.E.Sarojini explained that it is included in all the corresponding courses like Harzdrous & E Waste and Municipal solid waste management.
4. All the Expert members appreciated the course content of all the courses.






Chairperson Board of Studies

Dr.E.Sarojini

CHAIRMAN
Board of Studies



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 12th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 12th board of studies meeting on 28.04.2023 at 10.30am in Sri Ramakrishna Engineering College in the MBA Board room.

The following members has attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr.P.Ramadoss	Anna University Nominee
3.	Dr.S.Shantha Kumar	Subject Expert (Other University)
4.	Dr.V.Sunitha	Expert Member from NITs
5.	Er.S.Magesh	Industrial Expert
6.	Mr.G. Jayasurya	Alumni Member
7.	Dr.S.Hema, ASP/Civil	Internal Member
8.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil	Internal Member
9.	Mrs.J.Jayashree, AP(Sr.G)/Civil	Internal Member
10.	Mr.V.Parthiban, AP(Sr.G)/Civil	Internal Member
11.	Mr.B.Kamal, AP/Civil	Internal Member
12.	Dr.S.Kanchana, ASP/Civil	Other faculty members who have attended
13.	Mr.A.Dinesh, AP/Civil	
14.	Mr.D.Ramakrishnan, AP/Civil	
15.	Mrs.K.Saranya, AP/Civil	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed 2020 regulations of UG Programme for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, were discussed and agreed to follow the same statement. Curriculum and syllabi of Professional electives, Open Electives including One-credit courses and Value added Courses for the UG students were submitted for approval.

List of Professional Electives

20CE2E26	Urban Planning and Development
20CE2E27	Environmental Impact Assessment

List of One- Credit Courses

20CEI015	Principles of Day Lighting and Ventilation Design
20CEI016	Building Automation System
20CEI017	Construction Chemicals – Concept and Practice
20CEI018	Scientific Theory of Vastu
20CE219	Software Skills On Design Of Structures

List of Value Courses

3D Printing & Innovative Technology in Concrete
Waste to Energy Conversion

Suggestion by Expert Members on Professional electives, Open Electives and value added courses

1. Dr.S.Shanthakumar suggested to add acclimatization plan in third module of Professional elective course Urban Planning and Development
2. Er.S.Magesh suggested to add Climate change action in third module of Professional elective course Urban Planning and Development
3. Dr.P.Ramadoss and Dr.V.Sunitha suggested to keep two Text Books and more reference could be added for the benefit of students to enhance their learning ability.
4. Dr.P.Ramadoss suggested revising the edition of the textbooks from the year 2010 onward.
5. Er.S.Magesh suggested including EI – Open source one click Software with applications in the Professional elective course Environmental Impact Assessment.
6. Er.S.Magesh suggested including State level policy in the Professional elective course Environmental Impact Assessment.
7. Dr.S.Shanthakumar suggested including Regulations of EI in the Professional elective course Environmental Impact Assessment.
8. Er.S.Magesh suggested adding the Guidelines of thermal sectors and its approvals as Case studies in the Professional elective course Environmental Impact Assessment.
9. Dr.V.Sunitha and Dr.P.Ramadoss suggested adding the Indian Author as Textbook.

10. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested to reframe the word "Design" as Principle and design of Daylighting and Ventilation for the one credit course Principles of Day Lighting and Ventilation Design
11. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested that the level of Course outcome for the one credit course Principles of Day Lighting and Ventilation Design to frame in higher order i.e Apply level.
12. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested including reference as web links or textbook for all the one-credit courses.
13. Er.S.Magesh suggested adding Indian standard code in the one credit course "Building Automation System"
14. Er.S.Magesh conveyed that the Energy Conservation Building Code (ECBC) has been made mandatory in all government projects and suggested to add the comfort system of Heating, Ventilation and Air-Conditioning (HVAC) in the one credit course "Building Automation System"
15. Dr.P.Ramadoss and Dr.V.Sunitha suggested reframing the Concrete admixtures topic to Chemical admixtures in the one credit course "Construction Chemicals – Concept and Practice".
16. Dr.P.Ramadoss and Dr.V.Sunitha suggested adding the content of Chemical – repairing methods – chemicals techniques in the one credit course "Construction Chemicals – Concept and Practice".
17. All the Expert members appreciated the course content of all the one-credit courses.
18. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested adding the topics of commercial building, high-rise buildings, and public buildings in the one credit course "Scientific Theory of Vastu"
19. Dr.S.Shanthakumar conveyed that the students could visit Vellore Institute of Technology and IIT Madras as Industrial visit for the value added course "3D Printing & Innovative Technology in Concrete".
20. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested including reference as web links or textbook for all the value added courses.
21. Dr.S.Shanthakumar suggested adding the content "Recent development in waste management" in the value added course "Waste to Energy Conversion"
22. Er.S.Magesh suggested adding Indoor case studies in the value added course "Waste to Energy Conversion"
23. The expert members suggested removing the Word ETabs from the one credit course Software Skills on Design of Structures.

24. Mr.G. Jayasurya suggested to add a new one credit course as "Introduction to Optimization in design structures" in the Upcoming BoS Meeting.
25. The expert members suggested starting PG Programme in Civil Engineering.
26. Er.S.Magesh suggested adding new course in "Design of Parking" in the Upcoming BoS Meeting.
27. Dr.P.Ramadoss and Dr.S.Shanthakumar suggested for credit transfer from Elective course credit to projects which will enhance the students' knowledge.



Chairperson Board of Studies
Dr.E.Sarojini



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 11th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 11th board of studies through online mode Cisco Webex Platform on 01.12.2022 at 10.30am.

The following members attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr.P.Ramadoss	Anna University Nominee
3.	Dr.S.Shantha Kumar	Subject Expert (Other University)
4.	Dr.V.Sunitha	Expert Member from NITs
5.	Er.S.Magesh	Industrial Expert
6.	Ms.Dharani Seenupillai	Alumni Member
7.	Dr.S.Hema, ASP/Civil	Internal Member
8.	Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil	Internal Member
9.	Mrs.J.Jayashree, AP(Sr.G)/Civil	Internal Member
10.	Mr.V.Parthiban, AP(Sr.G)/Civil	Internal Member
11.	Mr.B.Kamal, AP/Civil	Internal Member
12.	Dr.S.Kanchana, ASP/Civil	Other faculty members who have attended
13.	Mr.A.Dinesh, AP/Civil	
14.	Mr.D.Ramakrishnan, AP/Civil	
15.	Mrs.K.Saranya, AP/Civil	
16.	Mrs.S.Rajalakshmi, AP/Civil	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed 2020 regulations of UG Programme for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, were discussed and agreed to follow the

same statement. Curriculum and syllabi of Professional electives, Open Electives including One-credit courses and NPTEL Courses for the UG students were submitted for approval. She also highlighted the regulations and award of UG (Hons) with Specialization, UG with Minor and UG (Hons) be implemented as approved by the Academic Council of Anna University, Chennai UG students who have joined from the Academic Year 2021 – 2022 for all B.E./B.Tech. programmes for students admitted in the Academic year 2020 & onwards. B.E. / B.Tech. (Honours) in the same discipline

1. B.E. / B.Tech. (Minor) in other specialization and
 2. B.E. / B.Tech. (Honours)
- **Norms for B.E. / B.Tech. (Hons) specialization in the same discipline, B.E. / B.Tech. (Hons) and B.E. / B.Tech. (Minor) in other specialization**
- i) **B.E. / B.Tech. (Hons) specialization in the same discipline**
 - a) The student should have earned additionally a minimum of 20 credits from a vertical of the same programme
 - b) Should have passed all the courses in the first attempt
 - c) Should have earned a minimum CGPA of 7.50.
 - ii) **B.E. / B.Tech. (Hons)**
 - a) The student should have earned additional courses (minimum of 20 credits) from more than one vertical of the same programme.
 - b) Should have passed all the courses in the first attempt
 - c) Should have earned a minimum CGPA of 7.50.
 - iii) **B.E. / B.Tech. (Minor) in other specialization**
 - a) The student should have earned additionally a minimum of 20 credits in any one of the verticals of other B.E./B.Tech programmes.
 - Students can earn maximum of 6 credits in online mode (SWAYAM platform) out of these 20 credits as approved by Chairperson of Board of Studies / Academic Council.
 - B.E. / B.Tech. (Hons) specialization in the same discipline, B.E. / B.Tech. (Hons) and B.E. / B.Tech. (Minor) in other specialization degree will be optional for students.
 - Students will be permitted to register Specialization / Minor courses from 4th / 5th semester onwards. The eligibility criteria will be the (N-1)th semester performance.

The following specialization / minors are proposed from 2021 – 2022 and onwards.

S. No	Under Graduate Engineering Programme	Name of the Specialization / Minor Degree	Permitted to Offer
1	Mechanical Engineering	Robotics	Specialization
2	Electrical & Electronics Engineering	Electric Vehicles	Specialization
3	Electronics & Communication Engineering	Internet of Things (IoT)	Specialization Minor
4	Electronics & Instrumentation Engineering	Sensors Technology	Specialization Minor
5	Computer Science & Engineering	Artificial Intelligence and Machine Learning	Specialization Minor
		Cyber Security	Specialization
		Data Science	Minor
		Virtual & Augmented Reality	Specialization
6	Civil Engineering	Green Technology	Specialization

Classification of Degree for students who opted for Specialization / Minors

1. First Class with Distinction					
Degree	Duration of the Programme	Duration Permitted	Additional credits above the requirement of curriculum	CGPA	Pass in
B.E./B.Tech. Regular	4 years	5 years	-	8.50	First Attempt
B.E./B.Tech. Lateral Entry	3 years	4 years	-	8.50	First Attempt
B.E. / B.Tech. (Hons) specialization in the same discipline	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the same programme	8.50	First Attempt
B.E. / B.Tech. (Hons)	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from more than one verticals of the same programme	8.50	First Attempt
B.E. / B.Tech. (Minor) in other specialization	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the other programme	8.50	First Attempt
2. First Class					
B.E./B.Tech.	4 years	5 years	-	6.50	-

Regular					
B.E./B.Tech. Lateral Entry	3 years	4 years	-	6.50	-
B.E. / B.Tech. (Hons) specialization in the same discipline	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the same programme	7.50	First Attempt
B.E. / B.Tech. (Hons)	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from more than one verticals of the same programme	7.50	First Attempt
B.E. / B.Tech. (Minor) in other specialization	3 / 4 years (Lateral Entry/ Regular respectively)	4/5 years (Lateral Entry/ Regular respectively)	20 credits from any one vertical of the other programme	6.50	-

3. Second Class

B.E./B.Tech. Regular / lateral entry and B.E./B.Tech. minor in other specialization degree students (not covered in first class with distinction and first class classification of degree) who qualify for the award of degree shall be declared to have passed examination in second class.

4. Others

Students earned additional 20 credits but does not satisfy the conditions mentioned in first class with distinction and first class classification of degree shall not be awarded B.E. / B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case, if the student becomes eligible for first class, while computing CGPA without taking into account the additional courses studied, the student shall be awarded B.E. / B.Tech. in First Class only.

List of Professional Electives

20CE2E20	Environmental Remediation of Contaminated Sites
20CE2E21	Spatial Planning and Management of Urban Areas
20CE2E22	Underground Space Utilization
20CE2E23	Tall Buildings
20CE2E24	Environmental Modeling and Simulation
20CE2E25	Building Services

List of Open Elective Courses

20CE2E59	Industrial Pollution Prevention Techniques
20CE2E60	Low Cost Housing

List of One- Credit Courses

20CEI011	Bamboo Design and Construction
20CEI012	Geo-Technology with ARCGIS
20CEI013	Modeling of Concrete Structures using Ansys
20CEI014	Building Information Modeling (BIM) With AR

TRANSFER OF CREDITS – LIST OF ONLINE NPTEL COURSES

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc23-ce30	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc23-ce23	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principle of Microwave, Thermal and Hyper Spectral Remote Sensing
3.	noc23-ce05	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 & Digital Land Surveying and Management
4.	noc23-ce46	Construction Methods and Equipment Management	2	8 Weeks	20CE2E14 & Construction Quality and Safety Management

Suggestion by Expert Members on Professional electives, Open Electives including One-credit and NPTEL.

1. Dr.P.Ramados Suggested for the professional elective course- tall buildings to add the course content in the module-I as Criteria for -Indian and international scenario
2. Dr.P.Ramados, Suggested to remove the course content of Essential amenities-Fire safety - Water supply - Drainage and garbage disposal-Service systems in the module-I for the professional elective course tall buildings
3. Dr.P.Ramados, Suggested to remove the word Gravity Loading and to reframe it as Dead and Live Loads for the professional elective course tall buildings.

4. Dr.P.Ramados, Suggested to add the topic relating to materials for Low cost housing, general requirements and history/ developments in the module-I for the open elective course Low Cost Housing
5. Dr.S.Shanthakumar Suggested to add pumps and motors for the professional elective course Building Services
6. Dr.S.Shanthakumar Suggested to follow 2 Textbooks for all courses. .
7. Dr.V.Sunitha suggested to add Professional Elective courses only wherever necessary. Because NBA enquires the number of times students opted the PE. She enquired about the provision of providing professional elective courses. Chairperson gave explanation about the adding of professional electives as per the current trends.
8. Er.S.Magesh suggested to refer Heating, ventilation, and air conditioning (HVAC) guidelines and ASHREE CODE for the professional elective course Building Services
9. Er.S.Magesh suggested to add the course content green and sustainability in buildings, fire detection alarm and FSA Suraksha in the professional elective course Building Services –
10. Ms.Dharani Seenupillai suggested to add the content Air modelling, hydrological modelling, Airmod in the Professional elective course Environmental Modeling and Simulation
11. It is resolved that the result analysis for the Academic year 2021-22 are approved and passed.

S.No	Batch	No. of students Appeared	No. of students Passed	Pass %
1.	2018 Batch	65	65	100
2.	2019 Batch	51	50	98.04
3.	2020 Batch	61	56	91.8

12. It is resolved that the degree award details for the Academic year 2021-22 are approved and passed

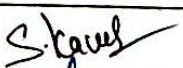
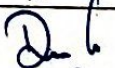
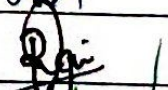
S.No	Batch	No. of students eligible for degree
1.	2018 Batch	65

13. It is resolved that Mr. T.Saravana Kumar (2009029) will be readmitted in the academic year 2022-2023 (Even semester).



Chairperson Board of Studies
Dr.E.Sarojini

The following members attended the 11th board of studies through online mode Cisco Webex Platform on 01.12.2022 at 10.30am.

Name of the Members	Signature
Dr.E.Sarojini,B.E.,M.E.,Ph.D Chairperson-BoS Professor and Head of the Department Sri Ramakrishna Engineering College Coimbatore-641022	
Dr.P.Ramadoss, M.E., Ph.D., MISTE, MIE, MICI, MISTE University Nominee Professor-Department of Civil Engineering Pondicherry Engineering College Pillaichavady, Puducherry.	dosspr@pec.edu
Dr.S.Shantha Kumar, Ph.D.,FIE,C.Eng(I),M.ASCE,M.IWA (Australian Endeavour Awardee) Subject Expert (Other University) Professor, Department of Environment and Water Resources Engineering School of Civil Engineering Vellore Institute of Technology, Vellore.	shanthakumar.s@vit.ac.in
Dr. V. Sunitha, B.Tech., M.Tech., Ph.D. Expert from NITs Assistant Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.	sunitha@nitt.edu
Er.S.Magesh Industry Expert, Principal Consultant & Co-Founder, LEED GA IGBC AP GEM CP Auger Engineers, Green Building design Consultants Anna Nagar, Chennai.	info@augerengineers.com
Ms.Dharani Seenupillai Alumni Member, (2012-2016 Batch) Environmental Engineer, Qatar Design Consortium (Al Jabor Building- Doha-Qatar)	dharani@qdcqatar.net
Dr.S.Hema, ASP/Civil Internal Member	
Dr.S.D.Anitha Selvasofia, AP(Sl.Gr)/Civil Internal Member	
Mrs.J.Jayashree, AP(Sr.Gr)/Civil Internal Member	
Mr.V.Parthiban, AP(Sr.Gr)/Civil Internal Member	
Mr.B.Kamal, AP/Civil Internal Member	
Dr.S.Kanchana, ASP/Civil Internal Member	
Mr.A.Dinesh, AP(Sr.Gr)/Civil Internal Member	
Mr.D.Ramakrishnan, AP/Civil Internal Member	
Mrs.K.Saranya, AP/Civil Internal Member	
Mr.S.Rajalakshmi, AP/Civil Internal Member	

Chairperson Board of Studies
Dr.E.Sarojini



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 10th BOARD OF STUDIES

The Department of Civil Engineering has conducted the 10th board of studies through online mode Cisco Webex Platform on 25.02.2022 at 10.30am.

The following members attended the meeting.

1.	Dr.E.Sarojini	Chairperson-BoS
2.	Dr.P.Ramadoss	Anna University Nominee
3.	Dr.S.Shantha Kumar	Subject Expert (Other University)
4.	Dr.V.Sunitha	Expert Member from NITs
5.	Er.S.Magesh	Industrial Expert
6.	Ms.Dharani Seenupillai	Alumni Member
7.	Dr.S.Hema, ASP/Civil	Internal Member
8.	Dr.S.D.Anitha Selvasofia, AP(Sr.Gr)/Civil	Internal Member
9.	Mr.V.Parthiban, AP/Civil	Internal Member
10.	Mr.B.Kamal, AP/Civil	Internal Member
11.	Dr.S.Kanchana, ASP/Civil	Other faculty members who have attended
12.	Mr.A.Dinesh, AP/Civil	
13.	Mr.D.Ramakrishnan, AP/Civil	
14.	Mr.S.SakthiMurugan, AP/Civil	
15.	Mr.P.Selvakumar, AP/Civil	

The Chairperson, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed 2020 regulations of UG Programme for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, curriculum and syllabi of Professional electives, Honors Course, Open



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Electives including One-credit courses, Value added courses and NPTEL Courses for the UG students admitted during the academic year 2020-21 onwards were submitted for approval.

List of Professional Electives

20CE2E16	Finite element Analysis
20CE2E17	Multimodal Transportation System
20CE2E18	Rock Mechanics and Tunnelling
20CE2E19	Project Formulation and Appraisal
20CE2E20	Life Cycle Analysis and Design for Environment

List of Open Elective Courses

20CE2E56	Remote Sensing and GIS For Urban Planning and Management
20CE2E57	Environmental Sustainability and Sciences
20CE2E58	Occupational Health & Safety

List of One- Credit Courses

20CEI006	Analysis and Design of Structures
20CEI007	Fire Safety
20CEI008	Planning and Design of Industrial Structures

List of Value Added Courses

1.	3D Printing & Innovative Technology in Concrete
2.	Fracture Mechanics in Concrete Structures
3.	GIS and Spatial Analysis
4.	Waste to Energy Conversion



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Honors Course GREEN TECHNOLOGY (Total Credits: 18-20)

S.No	Course Code	Course Title	L	T	P	C	SEM	CA	ES	Total
1.	20CE231	Sustainable Site Planning	3	0	0	3	V	50	50	100
2.	20CE232	Water Conservation and Efficiency in Buildings	3	0	0	3	VI	50	50	100
3.	20CE233	Energy Conservation and Management	3	0	0	3	VI	50	50	100
4.	20CE234	Green Building Materials and Sustainable Design	3	0	0	3	VII	50	50	100
5.	20CE235	Indoor Air Quality Monitoring and Management	3	0	0	3	VII	50	50	100
6.	20CE236	Green Building Rating Systems	3	0	0	3	VII	50	50	100
One Credit Courses										
1.	20CE286	Day Lighting and Ventilation/NPTEL	0	0	1	1	2	100	-	100
2.	20CE287	Building Automation Techniques/NPTEL	0	0	1	1	2	100	-	100
3.	20CE288	Software Training course by GRIHA	0	0	1	1	2	100	-	100
Employability Enhancement Course (EEC)										
1.	20CE289	Training Course on Green buildings Certification	1	0	0	1		100		100

TRANSFER OF CREDITS – LIST OF ONLINE NPTEL COURSES

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc22-ce34	Urban Transportation Systems Planning	3	12 Weeks	20CE2E06 & Urban Transportation Planning
2.	noc22-ce17	Electronic Waste Management - Issues And Challenges	1	4 Weeks	20CE2E10& Hazardous and E- Waste management
3.	noc22-ce23	Microwave Remote Sensing in Hydrology	3	12 Weeks	20CE2E12 & Principles of Microwave, Thermal and Hyper Spectral Remote Sensing
4.	noc22-ce24	Remote Sensing: Principles and Applications	3	12 Weeks	20CE2E12 & Principles of Microwave, Thermal and Hyper Spectral Remote Sensing
5.	noc22-ce05	Digital Land Surveying and Mapping (DLS&M)	2	8 Weeks	20CE2E13 & Digital Land Surveying and Management

Suggestion by Expert Members on Professional electives, Honors Course, Open Electives including One-credit and Value added course.

1. Dr.S.Shanthakumar insisted to give Software Training for the course content software Applications in the course Finite Element Analysis.
2. Dr.V.Sunitha suggested to add pre-requisite for the course Multimodal Transportation System and also insisted to include pre-requisite for all Professional Elective courses wherever necessary.
3. Dr.S.Shantha Kumar and Dr.V.Sunitha suggested adding case study of ATAL Tunnel in the Rock Mechanics and Tunneling courses.



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4. Dr.S.Shantha Kumar and Dr.V.Sunitha suggested to mention the Code number [IRC-SP-91-2010] in the Rock Mechanics and Tunneling course and insisted to add the code book as one among the reference book.
5. Dr.S.Shantha Kumar and Dr.V.Sunitha conveyed that the course content is good and to increase the lecture hour for the course Project Formulation and Appraisal.
6. Dr.V.Sunitha suggested that the students can give a chance to opt the Open elective course offered by Parent Department.
7. Dr.S.Shantha Kumar and Dr.V.Sunitha conveyed the course content can be assessed by giving assignments and mini projects for the open elective course Remote Sensing and GIS for Urban Planning and Management.
8. Er.S.Magesh suggested to add the content Yoga and Occupational health in the second module for the open elective course Occupational Health & Safety
9. Er.S.Magesh suggested to add the course content guidelines of NBC (Fire and Life safety) in the one credit course Fire safety.
10. Dr.S.Shantha Kumar suggested to remove the sentence Permeable Concrete that absorbs 4 Liters of Water per Minute and to keep it as Permeable Concrete in the value added course 3D Printing & Innovative Technology in Concrete.
11. Dr.S.Shantha Kumar and Dr.V.Sunitha suggested to reframe the course content for the value added course GIS and Spatial Analysis.
12. Ms.Dharani Seenupillai suggested to add Mini project in the value added course GIS and Spatial Analysis.
13. Dr.S.Shantha Kumar suggested to add commercial and Industrial plan in the IV Module of the honors course Sustainable Site Planning.
14. Er.S.Magesh suggested to include the content Universal building design 2016 in the honors course Sustainable Site Planning.
15. Er.S.Magesh conveyed that the course is very advanced and suggested to add building orientation, U&Q value and to reframe the honors course Energy Conservation and Management.



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16. Dr.S.Shantha Kumar suggested to include the latest technologies like solar panel as per Energy Conservation Building Code (ECBC) 2007 and Eco-Niwas code 2018 in the honors course Energy Conservation and Management.
17. Er.S.Magesh suggested to add the content reduction of construction waste in site, Net Zero Waste, selection of waste materials in the honors course Green Building Materials and Sustainable Design.
18. Ms.Dharani Seenupillai suggested to add the content Low VOC materials in the honors course Indoor Air Quality Monitoring and Management.
19. Er.S.Magesh suggested to add the content WELL EDGE (Excellence in Design for Greater Efficiencies) Rating system in the honors course Green Building Rating Systems
20. Er.S.Magesh suggested to add the content sky lighting in the honors one credit course Day Lighting and Ventilation.
21. Er.S.Magesh suggested to add the content Energy and water monitoring digital devices, Air quality monitoring in the honors one credit course Building Automation Techniques.
22. Dr.S.Shantha Kumar and Dr.V.Sunitha suggested to organize some activity based learning on Energy day and water conservation day.
23. Er.S.Magesh suggested to add the content Green Eco Label Products in the honor course Green Building Materials and Sustainable Design.
24. Dr.S.Shantha Kumar conveyed that honors course title can be renamed as Green Practices in Buildings instead of Green Technology.



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Sarojini E (Host) Dharani Seenu Pillai Ramadoss

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Participants (14)

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Dr.S.D.Anit... Me

Sarojini E Host

PARTHIBAN V

Dharani Seenu Pillai

DINESH A

Dr.S.Hema

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Kanchana Civil

Magesh Auger Engineers

Ramadoss

VIEWING PARTHIBAN V's screen

In case a student is unable to attend the class due to hospitalization / accident / specific illness / other reasons, the student should give a written permission from the Head of the Department through the concerned course instructor after getting approval from the Head of the Department through the concerned course instructor.

20.2 CONTINUOUS ASSESSMENT FOR THEORY COURSE

Assessment	Internal 50%		External 50%
	Duration	Weightage	
Semester in Exam - I	120 min	17.5	End Semester Exam: 50
Semester in Exam - II	120 min	17.5	
ATMs	---	5	
Surprise Quiz (min 7) online	---	5	
Assignment Test	45 min	5	

20.3 CONTINUOUS ASSESSMENT FOR LABORATORY COURSES

Assessment	Internal 75%		External 25%
	Duration	Weightage	
Semester in Exam - I	90 min	25	Exam
Semester in Exam - II	90 min	25	Exam
Lab-Weekly Exercise	---	15	External Review
Mini / Capstone Project	---	10	Paper Publications: 5 marks

CURRICULUM AND SYLLABUS | 19

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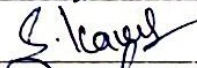
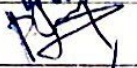
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Chairperson Board of Studies
Dr.E.Sarojini-Prof & Head

CHAIRMAN
Board of Studies

The following members attended the Tenth Board of Studies Meeting through online on 25.02.2022 at 10.30am.

Name of the Members	Signature
Dr.E.Sarojini,B.E.,M.E.,Ph.D Chairperson-BoS Professor and Head of the Department Sri Ramakrishna Engineering College Coimbatore-641022	
Dr.P.Ramadoss, M.E., Ph.D., MISTE, MIE, MICI, MISTE University Nominee Professor Department of Civil Engineering Pondicherry Engineering College Pillaichavady, Puducherry.	dosspr@pec.edu
Dr.S.Shantha Kumar,Ph.D.,FIE,C.Eng(I),M.ASCE,M.IWA(Australian Endeavour Awardee) Subject Expert (Other University) Professor, Department of Environment and Water Resources Engineering School of Civil Engineering Vellore Institute of Technology, Vellore.	shanthakumar.s@vit.ac.in
Dr. V. Sunitha, B.Tech., M.Tech., Ph.D. Expert from NITs Assistant Professor, Department of Civil Engineering, National Institute of Technology, Tiruchirappalli.	sunitha@nitt.edu
Er.S.Magesh Industry Expert Principal Consultant & Co-Founder, LEED GA IGBC AP GEM CP Auger Engineers, Green Building design Consultants Anna Nagar, Chennai.	info@augerengineers.com
Ms.Dharani Seenupillai Alumni Member (2012-2016 Batch) Environmental Engineer, Qatar Design Consortium (Al Jabor Building- Doha-Qatar)	dharani@qdcqatar.net
Dr.S.Hema, ASP/Civil Internal Member	
Dr.S.D.Anitha Selvasofia, AP(Sr.Gr)/Civil Internal Member	
Mr.V.Parthiban, AP/Civil Internal Member	
Mr.B.Kamal, AP/Civil Internal Member	
Dr.S.Kanchana, ASP/Civil Internal Member	
Mr.A.Dinesh, AP/Civil Internal Member	
Mr.D.Ramakrishnan, AP/Civil Internal Member	
Mr.S.Sakthi Murugan, AP/Civil Internal Member	
Mr.P.Selvakumar, AP/Civil Internal Member	


CHAIRMAN
Board of Studies
Chairperson Board of Studies
Dr.E.Sarojini-Prof & Head



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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE 9th BOARD OF STUDIES

The Department of Civil Engineering has conducted 9th board of studies through online mode Cisco Webex Platform on **23.04.2021** at 2.00P.M

The following members attended the above meeting.

- | | |
|--|--|
| 1. Dr.E.Sarojini | Chairman-BoS |
| 2. Dr.R.Thenmozhi | Anna University Nominee |
| 3. Dr.G.Prince Arulraj | Subject Expert (Other University) |
| 4. Dr.R.Sivacoumar | Expert Member from Central Government Research Lab |
| 5. Dr.L.S.Jayagopal | Industrial Expert |
| 6. Mr.N.Asvinth | Alumni Member |
| 7. Dr.K.Sukkiramathi, AP(Sr.Gr)/Mathematics | Internal Member |
| 8. Dr.S.Hema, ASP/Civil | Internal Member |
| 9. Dr.S.D.Anitha Selvasofia, AP(Sr.Gr)/Civil | Internal Member |
| 10. Mr. C.Ramesh, AP(Sr.G)/Civil | Internal Member |
| 11. Mr.P.Sooriya Narayanan, AP/Civil | Internal Member |
| 12. Mr.V.Parthiban, AP/Civil | Internal Member |
| 13. Mr.B.Kamal, AP/Civil | Internal Member |
| 13.Dr.S.Kanchana, ASP/Civil | |
| 14.Mr.A.Dinesh, AP/Civil | |
| 16.Mr.D.Ramakrishnan, AP/Civil | |
| 17.Mr.T.Varatharajaperumal, AP/Civil | Other faculty members who have attended |
| 18.Mrs.K.Saranya, AP/Civil | |
| 19.Mrs. S.Rajalakshmi, AP/Civil | |
| 20.Mr.S.SakthiMurugan, AP/Civil | |
| 21. Mr.P.Selvakumar, AP/Civil | |



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The Chairman, Dr.E.Sarojini welcomed the members of the Board of Studies and briefed about the salient features of the proposed 2020 regulations of UG Programme for Civil Engineering. The Vision, Mission, POs, PEO's, PSO's, curriculum and syllabi of semesters III to VIII, Professional electives, Open electives including One-credit courses for the UG students admitted during the academic year 2020-21 onwards were submitted for approval.

The members of the Board of Studies for the UG curriculum and syllabi of B.E., Civil Engineering programme, made the following suggestions. The following modifications were taken for the discussions.

SEMESTER III											
Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total	
THEORY											
20CS201	Disruptive Technologies	ESC	2	0	0	2		100	-	100	
20MA210	Partial Differential Equations And Tensor Calculus	BSC	3	0	0	3		50	50	100	
20CS241	Programming Foundations	ESC	2	0	0	2		50	50	100	
20CE209	Fluid Mechanics and Hydraulics Machinery	PCC	2	1	0	3		50	50	100	
20CE210	Mechanics Of Materials	PCC	2	1	0	3		50	50	100	
20CE211	Concrete Technology	PCC	2	0	0	2		50	50	100	
20CE212	Green Technology and sustainability Engineering	PCC	2	0	0	2		50	50	100	
20CE2EX	Open Elective-I	OEC	3	0	0	3		50	50	100	
PRACTICALS											
20CS291	Programming Foundations Laboratory	ESC	0	0	2	1		75	25	100	
20CE273	Fluid and Hydraulics Engineering Laboratory	PCC	0	0	2	1		75	25	100	
20CE274	Concrete Laboratory	PCC	0	0	2	1		75	25	100	
20CE275	Mini Project I	EEC	0	0	4	-		75	25	100	



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	Mandatory Course										
		Total				23					

SEMESTER IV

Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total
THEORY										
20IT2101/ 20ME203	<u>Design Thinking</u>	BSC	1	0	0	1		100	-	100
20MA217	Transforms, Probability And Statistics	BSC	3	0	0	3		50	50	100
20CE213	Highway and Railroad Engineering	PCC	3	0	0	3		50	50	100
20CE214	Emerging Innovations in Construction Industry	PCC	2	0	0	2		50	50	100
20CE215	Structural Analysis	PCC	2	1	0	3		50	50	100
20CE216	Water Resources Engineering	PCC	3	0	0	3		50	50	100
20CE217	Design of Reinforced Concrete Elements	PCC	2	1	0	3		50	50	100
20CE2E	Open Elective-II	OEC	3	0	0	3		50	50	100
THEORY CUM PRACTICALS										
20IT2101/ 20ME203	<u>Design Thinking</u>	BSC	1	0	0	1		100	-	100
PRACTICALS										
20CE276	Building Information Modeling Laboratory	PCC	0	0	2	1		75	25	100
20CE277	Highway Engineering Laboratory	PCC	0	0	2	1		75	25	100
20CE275	Mini Project I	EEC	0	0	4	2		75	25	100
	Mandatory Course									
		Total				28				

SEMESTER V



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Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total
THEORY										
20CE218	Landscaping and Interior Design	BSC	2	0	0	2		50	50	100
20CE219/20EI202	Optional-Smart City and Urban Planning /Sensors and its Applications	ESC	2	0	0	2		50	50	100
20CE220	Basic Structural Design	PCC	2	1	0	3		50	50	100
20CE221	Geotechnical Investigations and Design	PCC	3	0	0	3		50	50	100
20CE222	Water and Wastewater Engineering	PCC	3	0	0	3		50	50	100
20CE223	Traffic Engineering Management	PCC	2	0	0	2		50	50	100
20CE2EX	Open Elective-III	OEC	3	0	0	3		50	50	100
20CE2EX	Professional Elective -I	PEC	3	0	0	3		50	50	100
PRACTICALS										
20CE278	Computer Aided Analysis and Design Laboratory	PCC	0	0	2	1		75	25	100
20CE279	Environmental Engineering Laboratory	PCC	0	0	2	1		75	25	100
20CE280	Mini Project II	EEC	0	0	4	-		75	25	100
20CEIX	One credit course	EEC	1	0	0	1		100		100
	Mandatory Course									
Total						24				

SEMESTER VI										
Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total



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THEORY										
20CE224	Circular Economy for Sustainable Built Environment	HSMC	1	0	0	1		100	-	100
20CE225/20CE226	Optional- Principles of Construction Management/Lean Construction Technology	HSMC	3	0	0	3		50	50	100
20CE227	Design of Reinforced Concrete and Steel Structures	PCC	2	1	0	3		50	50	100
20CE228	Structural Dynamics and Earthquake Resistant Structures	PCC	2	1	0	3		50	50	100
20CE229	Health Monitoring and Rehabilitation of Structures	PCC	2	0	0	2		50	50	100
20CE2EX	Professional Elective -II	PEC	3	0	0	3		50	50	100
THEORY CUM PRACTICALS										
20CE252	Remote sensing and Geographical Information System	PCC	2	0	2	3		50	50	100
20CE253	Engineering Economics and Cost Estimation	PCC	2	0	2	3		50	50	100
PRACTICALS										
20CE280	Mini Project II	EEC	0	0	4	2		75	25	100
	Mandatory Course									
Total						23				

SEMESTER VII											
Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total	
THEORY											
20CE2EX	Professional Elective -III	PEC	3	0	0	3		50	50	100	
20CE2EX	Professional Elective -IV	PEC	3	0	0	3		50	50	100	
20CE2EX	Professional Elective -V	PEC	3	0	0	3		50	50	100	
20CE2EX	Professional Elective -VI	PEC	3	0	0	3		50	50	100	



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PRACTICALS										
20CE281	Internships/ Start-up/ Hackathon/Entrepreneurship/Live in Lab	EEC	0	0	4	2		75	25	100
20CE282	Project Work	EEC	0	0	10	-		75	25	100
Total						14				

SEMESTER VIII										
Course Code	Course Title	Category	L	T	P	C	POs	CA	ES	Total
PRACTICALS										
20CE282	Project Work	EEC	0	0	16	8		75	25	100
Total						8				

	I	II	III	IV	V	VI	VII	VIII		As Per R2020
	Liberal Arts/Biology for Engineers/Design Thinking/Disruptive Technologies									
	Mandatory Courses									
			Internships/ Start-up/ Hackathon/Entrepreneurship/Live in Lab							
HSMC	4	3				4			11	9 to 11
BSC	10	6	3	4	2				25	23 to 25
ESC	6	13	5		2				26	25 to 27



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PCC			12	18	14	14			58	57
PEC					3	3	12		18	18
OEC			3	3	3				9	9
EEC				2	1	2	2	8	15	15
	20	22	23	27	25	23	14	8	162	162

List of Professional Electives

- 20CE2E01 Prefabricated Concrete Structures
- 20CE2E02 Design of Bridges
- 20CE2E03 Prestressed Concrete Structures
- 20CE2E04 Climate Responsive Design
- 20CE2E05 Airport And Harbour Engineering
- 20CE2E06 Urban Transportation Planning
- 20CE2E07 Ground Improvement Techniques
- 20CE2E08 Geo-environmental Engineering
- 20CE2E09 Clean Technology
- 20CE2E10 Hazardous And E-waste Management
- 20CE2E11 Municipal Solid Waste management
- 20CE2E12 Principles Of Microwave, Thermal And Hyper spectral Remote Sensing
- 20CE2E13 Digital Land Surveying And Management
- 20CE2E14 Construction Quality And Safety Management
- 20CE2E15 Project Planning and Management

List of Open Elective Courses

- 20CE2E51 Waste Management
- 20CE2E52 Global warming and climate change
- 20CE2E53 Geographical Information System
- 20CE2E54 Disaster management
- 20CE2E55 Environmental Management in Industry



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List of One- Credit Courses

- 20CEI01 Construction Safety
- 20CEI02 Water Audit
- 20CEI03 Geotechnical Exploration And Investigation
- 20CEI04 Design of High Performance Concrete
- 20CEI05 Non - Destructive Testing Practices

Honors Course GREEN TECHNOLOGY (Total Credits: 18-20)

S.No	Course Code	Course Title	L	T	P	C	SEM	CA	ES	Total
1.	20CE231	Sustainable Site Planning	3	0	0	3	V	50	50	100
2.	20CE232	Water Conservation and Efficiency in Buildings	3	0	0	3	VI	50	50	100
3.	20CE233	Energy Conservation and Management	3	0	0	3	VI	50	50	100
4.	20CE234	Green Building Materials and Sustainable Design	3	0	0	3	VII	50	50	100
5.	20CE235	Indoor Environmental Quality Monitoring and Management	3	0	0	3	VII	50	50	100
6.	20CE236	Green Building Rating Systems	3	0	0	3	VII	50	50	100
One Credit Courses										
1.	20CE286	Day Lighting and Ventilation/NPTEL	0	0	1	1	2	100	-	100
2.	20CE287	Building Automation Techniques/NPTEL	0	0	1	1	2	100	-	100
Employability Enhancement Course (EEC)										
1.	20CE288	IGBC Training Programme Certification	1	0	0	1		100		100
2.	20CE289	Internship/Industrial Training	0	0	2	1		75	25	100



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TRANSFER OF CREDITS – LIST OF ONLINE NPTEL COURSES

S.No.	Course Code	Course Title	Credits	Course Duration	Equivalent Professional/Open Elective in SREC curriculum
1.	noc21-ce02	Landscape architecture and site planning – Basic fundamentals	2	8 Weeks	16CE2E19 & Principles of architecture and town planning
2.	noc21-ce06	Geosynthetics and reinforced soil structures	3	12 Weeks	16CE2E11 & Reinforced soil structures
3.	noc21-ce08	Digital land surveying and mapping (DLS&M)	2	8 Weeks	16CE2E08 & Remote Sensing and GIS
4.	noc21-ce11	Remote sensing: Principles and Applications	3	12 Weeks	16CE2E08 & Remote Sensing and GIS
5.	noc21-ce25	Water and waste water treatment	3	12 Weeks	16CE2E17 & Industrial waste water engineering
6.	noc21-ce33	Advanced foundation engineering	3	12 Weeks	16CE2E09 & Foundation on expansive soils
7.	noc21-ce35	Urban transportation systems planning	3	12 Weeks	16CE2E24 & Urban and regional planning
8.	noc21-ce36	Environmental remediation of contaminated sites	3	12 Weeks	16CE2E17 & Industrial waste water engineering

Suggestion by Expert Members on regulations, curriculum, various courses and electives.

1. Dr.R.Thenmozhi suggested preferably providing 2 credits for all laboratory courses.
2. Dr.R.Thenmozhi suggested providing Python Course rather than providing C Programming.
3. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested adding tutorial hours in the Structural Analysis and Design of RC Structures courses.
4. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested preferably Strength of materials as two different courses like Mechanics of solids and Strength of materials. The thin cylinders content should be added Mechanics of solids course and the last two modules should be added in updated strength of materials course.
5. Dr.L.S.Jayagopal suggested adding the topic pumped concrete, self-compacted concrete in the course Concrete technology.



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6. Dr.L.S.Jayagopal, Dr.R.Thenmozhi and Dr.GPrince Arulraj suggested adding self-compacting experiments sieve analysis grading as per IS 383, J-ring test and demo on mix design in the course Concrete laboratory.
7. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested preferably splitting the credit for the mini project course as one credit in the odd semester and remaining one credit in the even semester and also suggested giving credits for the project work in the seventh semester
8. Dr.L.S.Jayagopal and Dr.R.Thenmozhi preferably suggested not including open elective course from III semester onwards.
9. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested removing first four module, replace with previous regulation syllabus, and rename the course Hydrology and Hydraulics Engineering as hydraulic machinery.
10. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested to frame hydrology as separate course and to add in professional electives.
11. Dr.L.S.Jayagopal, Dr.R.Thenmozhi and Dr.GPrince Arulraj suggested preferably implementing Design of RC structures, Design of RC Elements, Steel Structures as individual courses.
12. Dr.L.S.Jayagopal, Dr.R.Thenmozhi and Dr.GPrince Arulraj suggested preferably to reframe the syllabus for Design of RC structures and Design of Advanced Concrete and Steel Structures
13. Dr.L.S.Jayagopal accepted the course content of Landscaping and Interior Design, Green Technology and sustainability Engineering, Circular Economy for Sustainable Built Environment, Smart city and urban planning. He also conveyed to give importance to Civil Courses compared to Architecture courses.
14. Dr.GPrince Arulraj suggested adding Francis turbine experiments in Fluid and Hydraulics Engineering Laboratory course.
15. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested preferably renaming the Geo-Mechanics course title to Soil Mechanics and suggested adding the content compaction and shear strength
16. Dr.L.S.Jayagopal also suggested renaming the content Determination of collapse load for simply supported beam, Propped cantilever beam, fixed beam, continuous beam subjected to concentrated load and UDL as Determination of collapse load for beams and frames in structural Analysis Course.
17. Dr.R.Thenmozhi suggested adding Strength of Materials course as pre-requisite in Basic Structural Steel Design course.



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18. Dr.L.S.Jayagopal suggested to modify the syllabus and to include combined stresses, plate girders, timber and masonry content in Basic Structural Steel Design course.

19. Dr.R.Thenmozhi suggested preferably renaming the course title Geotechnical Investigations & Design as Foundation Engineering.

20. Dr.R.Thenmozhi and Dr.L.S.Jayagopal conveyed that the content of the Geotechnical Investigations and Design course content has to be strengthen.

21. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested removing the content of footings from Geotechnical Investigations and Design course and it be added in the course Design of RC structure.

22. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested renaming the course title Water and Wastewater technology to water supply and waste water Engineering.

23. Dr.R.Thenmozhi, Dr.L.S.Jayagopal and Dr.R.Sivacoumar suggested adding quantity and quality of water, IS & WHO Standards for quality of water and water supply manual in Water and Wastewater technology course.

24. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested renaming the course title Transportation Engineering to Highway and Railroad Engineering.

25. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested referring UPSC syllabus to modify the content like, three module as highway and two module as Railway in Transportation Engineering course and to preferably remove the module intelligent transport system in Transportation Engineering course.

26. Dr.R.Sivacoumar suggested being more specific in using the words sustainability in the course smart city and urban planning.

27. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested removing design of shear wall, special loads, Push over analysis of frames, Design of curved support structures and transportation in the Building Information Modelling Laboratory course.

28. Er.N.Asvinth suggested adding design of one way and two way slab in excel format in the Building Information Modelling Laboratory course.

29. Dr.R.Thenmozhi and Dr.L.S.Jayagopal suggested preferably providing lean technology course as one of the professional elective courses.

30. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested adding Estimation and Costing Laboratory as theory cum laboratory course instead of laboratory course.

31. Dr.L.S.Jayagopal and Dr.R.Thenmozhi suggested renaming Structural Dynamics and Hazard Resistant Design of Structures as Design of earthquake resistant structures.



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32. Dr.L.S.Jayagopal suggested preferably removing the content of steel structures from the course "Industrial Steel Structures" and suggested to rename the course as "Design of RC Structures".
33. Dr.L.S.Jayagopal suggested preferably reframing the syllabus by adding the content combined footing, pile cap, overhead water tank and also suggested to change the title of Module II as Design of combined footings, Module-III as Design of columns and Module -IV as flat slabs in Design of RC Structures.
34. Dr.L.S.Jayagopal suggested removing the content of module-V "Design of forms" in the course design of Reinforced concrete structures.
35. Dr.L.S.Jayagopal preferably suggested adding structural dynamics as separate course in professional elective courses.
36. Dr.L.S.Jayagopal suggested adding Finite element methods as separate course in professional elective courses which could be added in upcoming BoS
37. Dr. L.S.Jayagopal, Dr.R.Thenmozhi and Dr.R.Sivacoumar advised to remove fancy words from the title of each courses.
38. Dr. L.S.Jayagopal and Dr.R.Thenmozhi suggested removing Health Monitoring and Rehabilitation of Structures from core course and advised to add in professional elective courses.
39. Dr. L.S.Jayagopal and Dr.R.Thenmozhi suggested removing module-V from Prefabricated Concrete Structures course.
40. Dr. L.S.Jayagopal and Dr.R.Thenmozhi suggested changing the textbook for the Repair and Rehabilitation of Structures course.
41. Dr. L.S.Jayagopal and Dr.R.Thenmozhi suggested adding the Monograph as reference in all One-credit courses.
42. Dr. L.S.Jayagopal and Dr.R.Thenmozhi suggested removing the word "report preparation" in the one-credit course Geotechnical Exploration and Investigation - Report Preparation.
43. Dr. L.S.Jayagopal suggested adding High performance concrete and Non-Destructive Evaluation as one-credit courses.
44. Dr. L.S.Jayagopal suggested adding National Building Code rules, Fire protection as one-credit courses.
45. Dr. L.S.Jayagopal, Dr.R.Thenmozhi and Dr.G.Prince Arulraj suggested reducing the content in Waste Management, Global warming and climate change, Disaster management and Environmental Management in Industry courses in the open elective courses.



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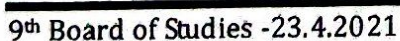
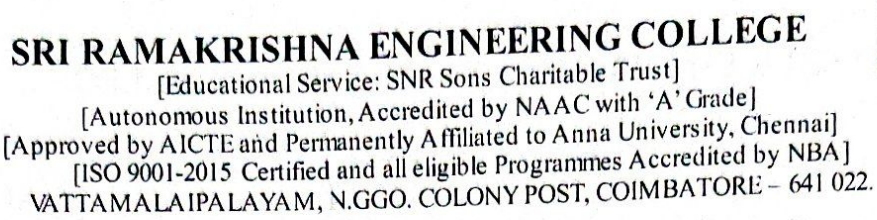
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46. Dr. L.S.Jayagopal, Dr.R.Thenmozhi and Dr.GPrince Arulraj and Dr.R.Sivacoumar accepted the honors course "Green Technology", Professional elective courses, Open elective Courses and One credit Courses.

The table lists various engineering courses and their details. The columns are: Course Code, Course Title, Credits, Prerequisites, and a list of participants. The courses are categorized into Elective I, Elective II, and Elective III.

Course Code	Course Title	Credits	Prerequisites	Participants
24E201	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E202	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E203	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E204	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E205	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E206	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E207	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E208	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E209	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar
24E210	Design of Structures	3	ENR 201	Dr. L.S.Jayagopal, Dr. R. Thenmozhi, Dr. G. Prince Arulraj, Dr. R. Sivacoumar





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[Approved by AICTE and Permanently Affiliated to Anna University, Chennai]

[ISO 9001-2015 Certified and all eligible Programmes Accredited by NBA]

VATTAMALAIPALAYAM, N.GGO. COLONY POST, COIMBATORE - 641 022.



ISO 9001:2015



The following members attended the BoS Meeting through online on 23.04.2021 at 2.00P.M.

S.No.	Name of the Member	Designation	Signature
1.	Dr.E.Sarojini, Prof and Head	Chairperson-Civil	
2.	Dr.K. Sukkiramathi, AP (Sr.G.) Maths	Internal Member- Mathematics	
3.	Dr.S.Hema, ASP/Civil	Internal Member	
4.	Dr.S.Kanchana, ASP/Civil	Internal Member	
5.	Dr.S.D.Anitha Selvasofia, AP (Sr.G.) Civil	Internal Member	
6.	Mr.C.Ramesh, AP (Sr.G.) Civil	Internal Member & BoS Coordinator	
7.	Mr.P.Sooriya Narayanan, AP/Civil	Internal Member	
8.	Mr.D.Ramakrishnan, AP/Civil	Internal Member	
9.	Mr.V.Parthiban, AP/Civil	Internal Member	
10.	Mr.T.Varatharajaperumal, AP/Civil	Internal Member	
11.	Mr.B.Kamal, AP/Civil	Internal Member	
12.	Mr.A.Dinesh, AP/Civil	Internal Member	
13.	Mrs.K.Saranya, AP/Civil	Internal Member	
14.	Mrs.S.Rajalakshmi, AP/Civil	Internal Member	
15.	Mr.P.Selvakumar, AP/Civil	Internal Member	
16.	Mr.S.Sakthi Murugan, AP/Civil	Internal Member	

Chairperson

Board of Studies