



EXCEL ENGINEERING COLLEGE
(Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA and NAAC with “A+” and Recognized by
UGC(2f&12B)
KOMARAPALAYAM - 637303

DEPARTMENT OF CIVIL ENGINEERING
THIRD BOARD OF STUDIES MEETING
MINUTES OF MEETING

Meeting No : EEC / Civil / BOS / 3
Date : 25.02.2022
Time : 10.00 am
Venue : Online Mode (Via Google meet)
Google Meet Link : <https://meet.google.com/ckg-pgzs-ojy>
ID : *ckg-pgzs-ojy*

AGENDA

1. To discuss and pass the syllabi of V and VI semesters of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
2. To discuss and pass the syllabi of the Professional and Open Electives of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
3. To discuss and pass the syllabi of the One Credit Courses of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
4. To discuss and pass the curriculum and syllabi of the courses of I and II semesters of M.E Structural Engineering Programme for the students admitted from 2022-23 academic year onwards..
5. To discuss and pass the curriculum and syllabi of the courses of I and II semesters of M.E Environmental Engineering Programme for the students admitted from 2022-23 academic year onwards.
6. Any other Matters.

Resolutions

UG – B.E Civil Engineering

1. Resolved that the following recommendations may be passed to the standing committee of the academic council for the curriculum and the syllabi of **B.E Civil Engineering** program with the following changes.

RECOMMENDATION	RESOLUTION
B.CE.1.1 - Dr B Soundara has asked to remove cohesive and non- cohesive soil in Unit IV under reamed piles of 20CE504 - Geotechnical Engineering II.	B.CE.R.1.1 - Cohesive and non- cohesive soil in Unit IV under reamed piles has been removed from 20CE504 - Geotechnical Engineering II.
B.CE.1.2 - Dr B Soundara has pointed out to add the concept of MSE retaining wall in Unit V of 20CE504 - Geotechnical Engineering II.	B.CE.R.1.2 - Concept of MSE retaining wall in Unit V of 20CE504 - Geotechnical Engineering II has been added.
B.CE.1.3 – Dr B Soundara has asked to change the prerequisite as Geotechnical Engineering I & II instead of Environmental Engineering for the subject 20EE12 – Geo Environmental Engineering	B.CE.R.1.3 - The prerequisite has been changed as Geotechnical Engineering I & II instead of Environmental Engineering for the subject 20EE12 – Geo Environmental Engineering
B.CE.1.4 - Dr B Soundara has suggested to include the following subjects as elective. <ul style="list-style-type: none">❖ Reinforced soil structure❖ Geotechnical equipments❖ Rock Mechanics❖ Timber and Masonry structures	B.CE.R.1.4 – As per suggestions the following subjects have been added in the list of electives under Structural Engineering stream. <ul style="list-style-type: none">❖ Reinforced soil structure❖ Geotechnical equipments❖ Rock Mechanics❖ Timber and Masonry structures
B.CE.1.5 - Dr B Soundara has asked to add design of pre engineered building as One credit course.	B.CE.R.1.5 – As per suggestion, Design of pre engineered building has been added in the list of one credit courses.
B.CE.1.6 Dr B. Soundara has asked to change prerequisite for the open elective subject 20CEO06 Green Building design.	B. CE.R.1.6 The prerequisite for the subject 20CEO06 Green Building Design has been changed as Basic Knowledge in Engineering materials.
B.C.E.1.7 Dr S. Thirugnanasambantham has asked whether any credit allotted for internship	B CE.R.1.7 One credit is allotted for internship training
B.CE.1.8 Er.M.Elanthendral has asked to focus more on practical in the integrated subjects.	B.CE.R.1.8 Practical component in integrated subjects will be focused more.
B.CE.1.9 Er.M.Elanthendral pointed out that batching of concrete like volume batching should be explained to the students in the practical	B.CE.R.1.9 In construction practices lab concrete mix design is done. So the volume batching concepts will be included and explained in this

courses.	practical.
----------	------------

2. Resolved that the curriculum and syllabus for VII& VIII semester will be followed as per the existing regulations.

M. E Structural Engineering

3. Resolved that the following recommendations may be passed to the standing committee of the academic council for the curriculum and the syllabi of **M.E Structural Engineering** program with the following changes.

B.CE.1.10 Advanced training should be imparted for PG students.	B.CE.R.1.10 Students apply for reputed construction firms to get the advanced training.
B.CE.1.11 Dr.B.Soundara suggested to include the Elective subject 'Advanced Characterization of Construction materials' for M.E Structural Engineering students.	B.CE.R.1.11 Added 'Advanced Characterization of Construction materials' as an elective subject for Structural Engineering students.
B.CE.1.12 Dr B.Soundara has asked to remove cyclic test and include static test in Advanced Structural Engineering lab	B.CE.R.1.12 In Advanced Structural Engineering lab, static test is included and cyclic test is removed.
B.CE.1.13 Dr S. Thirugnanasambantham suggested that numerical modeling techniques may be included in Advanced Structural Engineering lab.	B.CE.R.1.13 In Advanced Structural Engineering lab, the modeling techniques will be included.

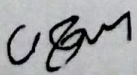
4. Resolved that the curriculum and syllabus for III & IV Semester be followed as per the existing 2020 regulations

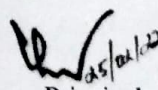
M. E Environmental Engineering

5. Resolved that the following recommendations may be passed to the standing committee of the academic council for the curriculum and the syllabi of **M.E Environmental Engineering** program with the following changes.

B.CE.1.14 Er.M.Elantendral has suggested to explain climate architecture and cross ventilation aspects in the elective subject 22 PEEE06 climate change and adaptation.	B.CE.R.1.14 In the subject 22PEEE06 climate change and adaptation, the climate architecture and cross ventilation aspects will be included in the syllabus and explained.
--	--

6. Resolved that the curriculum and syllabus for III & IV Semester be followed as per the existing 2020 regulations.


Chairman-Board of Studies


Principal



EXCEL ENGINEERING COLLEGE (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA and NAAC with "A+" and Recognized by UGC(2f&12B)
KOMARAPALAYAM - 637303

DEPARTMENT OF CIVIL ENGINEERING

BOARD OF STUDIES MEETING III HELD ON 25.02.2022

(TIME: 10.00 AM to 01.00 PM)

Members Present:

S. No.	Name of the Member	Designation	Signature
1	Dr. S. Shanmugasundaram	Chairman	
2	Dr. B. Soundara	University Nominee	
3	Dr. S. Thirugnanasambantham	Subject Expert	
4	Dr. K. Baskar	Subject expert	
5	Er. R. Sivalingam	Industry representative	
6	Dr. P. Kalaiselvan	Special Invitee	
7	Er. C. R. Sriprasannarajah	Special Invitee	
8	Er. M. Elanthendral	Special invitee	
9	Mr. M. Priyadharsan	UG Alumnus	
10	Er. M. Mohanrajaa	PG Alumnus	
11	Mr. R. Aravinth	UG Student	
12	Mr. Santhosh Kumar shah	UG Student	
13	Mr. R. Rajasekaran	PG Student	
14	Dr. N. Sengottaian	Faculty member	
15	Mr. K. Sabarinathan	Faculty member	
16	Mr. C. Arun Doss	Faculty member	
17	Ms. D. Mythili	Faculty member	
18	Mr. S. M. Sakthivel	Faculty member	
19	Ms. N. Mythily	Faculty member	

20	Mr. S. Arun Kumar	Faculty member	<i>A. Arun Kumar</i>
21	Mr. S. Sasikumar	Faculty member	<i>S. Sasikumar</i>
22	Mr. P. K. Ranganathan	Faculty member	<i>P. K. Ranganathan</i>
23	Mr. M. Kavin	Faculty member	<i>M. Kavin</i>
24	Mr. R. Anbarasu	Faculty member	<i>R. Anbarasu</i>
25	Mr. S. Rajkumar	Faculty member	<i>S. Rajkumar</i>
26	Mr A Subramanian	Faculty member	<i>A. Subramanian</i>
27	Mr. P. Sathiya Narayanan	Faculty member	<i>P. Sathiya Narayanan</i>
28	Mr. G. Chandrasekaran	Faculty member	<i>G. Chandrasekaran</i>
29	Mr. R. Mohanraj	Faculty member	<i>R. Mohanraj</i>
30	Mr. M. Raja	Faculty member	<i>M. Raja</i>
31	Ms. M. RoobaLavanya	Faculty member	<i>M. RoobaLavanya</i>
32	Mr. R. Sakthivel	Faculty member	<i>R. Sakthivel</i>
33	Ms. N. Vanathi	Faculty member	<i>N. Vanathi</i>
34	Ms. S. Hema	Faculty member	<i>S. Hema</i>
35	Mr. P. Senthil Kumar	Faculty member	<i>P. Senthil Kumar</i>
36	Ms. P. Mohanapriya	Faculty member	<i>P. Mohanapriya</i>
37	Mr. D. Arulshankaran	Faculty member	<i>D. Arulshankaran</i>
38	Ms. K. Saranya	Faculty member	<i>K. Saranya</i>
39	Mr. P. Varatharajan	Faculty member	<i>P. Varatharajan</i>
40	Mr. A. Tamilarasan	Faculty member	<i>A. Tamilarasan</i>
41	Ms. S Hemalatha	Faculty member	<i>S. Hemalatha</i>
42	Mr. P A Srinivasan	Faculty member	<i>P. A. Srinivasan</i>
43	Mr. K. Ragupathi	Faculty member	<i>K. Ragupathi</i>



a.g.m
 HEAD OF THE DEPARTMENT
 CIVIL ENGINEERING,
 EXCEL ENGINEERING COLLEGE
 KOMARAPALAYAM 637 303.

BOS MEETING SNAPSHOTS – 25.02.2022

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

EXCEL ENGINEERING COLLEGE (Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA and NAAC with "A" and Recognized by UGC(2B/2B)
KOMARAPALAYAM - 623605

DEPARTMENT OF CIVIL ENGINEERING
III -BOARD OF STUDIES
AGENDA

1. To discuss and pass the syllabi of V and VI semesters of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
2. To discuss and pass the syllabi of the Professional and Open Electives of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
3. To discuss and pass the syllabi of the One Credit Courses of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
4. To discuss and pass the curriculum and syllabi of the courses of I and II

11:29 AM | ckg-pgzs-ojy

People

- Mute all
- Add people
- Host controls
- Prakash Bhandari 4th yea...
- Sabari Nathan
- Sailesh Yadav
- sakthi vel
- Sasi Kumar
- Selvaraj S P
- SOUNDARA B
- thirugnanasambandam s...

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

B.E. Civil Engineering (R 2020)

20CCEDXX	Professional Elective -II	PC	3	0	0	3	40	60	100
20YYOXX	Open Elective-II	OE	3	0	0	3	40	60	100
Theory with Practical Course (s)									
20CCD64	Highway Engineering	PC	3	0	2	4	50	50	100
Employment Enhancement Course (s)									
20CCD66	Mini Project	ECC	0	0	2	1	50	50	100
20CCD66	Internship	ECC	2	weeks	1	100	0	100	
Total			18	2	4	22	400	400	800

SEMESTER VII									
Sub Code	Course	Category	Periods/Week			Maximum Marks			
			L	T	P	CA	FE	Total	
Theory Course (s)									
20CCT01	Structural Dynamics and Earthquake Engineering	PC	3	0	0	3	40	60	100

11:34 AM | ckg-pgzs-ojy

People

- All muted
- Add people
- Host controls
- Kalaiselvan Periyasamy
- Mythili D Meeting host
- Mythili N
- Prakash Bhandari 4th yea...
- Priyadharsan B
- Sailesh Yadav
- sakthi vel
- Sasi Kumar

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

Passed by Board of Studies Approved in Academic Council

B.E. Civil Engineering (R-2020)

20CE502	Structural Analysis I	L	T	P	C
		3	0	0	3

Nature of Course: Professional core
Pre requisites: Strength of materials

Course Objectives
The course is intended to:

1. Understand the basic concepts of Analysis of structures.
2. Gain knowledge on influence lines for determinate beams.
3. Know about the influence lines for indeterminate beams.
4. Acquire knowledge on Slope deflection method.
5. Learn about the moment distribution method.

Course Outcomes
On successful completion of the course, students will be able to

CO No.	Course Outcome	Bloom's Level
CO1	Analyse the structures by Strain Energy method.	Analyse
CO2	Implement the Concept of moving loads and influence lines for simple	Apply

EEC AGRI HOD

Dr Shanmugasundaram

15 others

You

People

All muted Add people Host controls

- Priyadharsan B
- Sabari Nathan
- Sailesh Yadav
- sakthi vel
- Sasi Kumar
- Selvaraj S P
- SOUNDARA B
- thirugnanasambandam s...

11:35 AM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

Passed by Board of Studies Approved in Academic Council

B.E. Civil Engineering (R-2020)

20CE504	GEOTECHNICAL ENGINEERING II	L	T	P	C
		3	0	2	3

Nature of Course: Professional core
Pre requisites: Geotechnical Engineering I

Course Objectives
The course is intended to:

1. Understand basic concepts of site investigation and selection of foundation
2. Study about stress development in the soil
3. Recognize the types of isolated footing, combined footing and Mat foundation
4. Recognize the necessity for shear strength of soil
5. Evaluate the stability of slope

Course Outcomes
On successful completion of the course, students will be able to

CO No.	Course Outcome	Bloom's Level
CO1	Understand basic concepts of site investigation and selection of foundation	Understand
CO2	Study about stress development in the soil	Understand
CO3	Recognize the types of isolated footing, combined footing and Mat foundation	Understand
CO4	Recognize the necessity for shear strength of soil	Understand
CO5	Evaluate the stability of slope	Evaluate

EEC AGRI HOD

Dr Shanmugasundaram

16 others

You

People

All muted Add people Host controls

- EEC AGRI HOD Presentation
- Elanthendral M
- Kalaiselvan Periyasamy
- Mythili D Meeting host
- Mythily N
- Prakash Bhandari 4th yea...
- Priyadharsan B
- Sabari Nathan

11:37 AM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

S. No	Experiment	CO Mapping	RBT
1	Traverse - using Total station	CO1	Apply
2	L.S & C.S: Road and canal alignment for a length of not less than 1 Km at least L.S at every 30M and C.S at every 60 m	CO2	Apply
3	Triangulation to calculate area by angular measurements.	CO2	Apply
4	Sun observation to determine azimuth (guidelines to be given to the students)	CO3	Apply
5	Fixing gradient for a pipe line	CO3	Apply
6	1/4 leveling for finding difference in levels.	CO3	Apply
7	Curve setting by deflection angle.	CO4	Apply

11:38 AM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

20CECE10	Industrial Waste Management	L	T	P	C
		3	0	6	3

Nature of Course Professional core
Pre requisites Environmental Engineering

Course Objectives
The course is intended to:

1. Know about types of industries and industrial pollution
2. Learn about Waste management Approach
3. Gain knowledge on pollution from major industries.
4. Acquire knowledge on treatment technologies.

Sivalingam R can now join this meeting

Sivalingam R joined

11:51 AM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

LO	Learning Objective	Understand
LO1	environment and society	
LO2	assess vulnerability and various methods of risk reduction measures as well as mitigation	Understand
LO3	Elaborate hazard and vulnerability profile of India	Understand
LO4	Identify scenarios in the Indian context	Understand
LO5	disaster damage/assessment and management	Apply

Course Contents:

UNIT 7 INTRODUCTION TO DISASTERS

Definition: Disaster, Hazard, Vulnerability, Resilience, Risks – Disasters: Types of disasters – Earthquake, Landslide, Flood, Drought, Fire etc. – Classification, Causes, Impacts including social, economic, political, environmental, health, psychosocial, etc. – Differential impact: in terms of caste, class, gender, age, location, disability – Global trends in disasters: urban disasters, pandemics, complex emergencies, Climate change: Use and Drones during various types of Disasters.

Approved by Board of Studies
Approved in Academic Council

B.E. Civil Engineering (R 2020)

UNIT 7 APPROACHES TO DISASTER RISK REDUCTION (DRR)

11:53 AM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

M.E STRUCTURAL ENGINEERING REGULATION 2022 CHOICE BASED CREDIT SYSTEM I TO IV SEMESTER CURRICULUM

Sub code	Course	Category	Periods/Week					Maximum Marks		
			L	T	P	C	CA	FE	Total	
Theory Course (s)										
22PMA101	Advanced Mathematical Methods	FC	3	2	0	4	40	60	100	
22PSE101	Advanced Concrete Structures	PC	3	0	0	3	40	60	100	
22PSE102	Structural Dynamics	PC	3	0	0	3	40	60	100	
22PSE103	Theory of Elasticity and Plasticity	PC	3	0	0	3	40	60	100	
22PSCDX	Professional Elective I	P/E	3	0	0	3	40	60	100	
22PSEH-XX	Professional Elective II	P/E	3	0	0	3	40	60	100	
Total	18	2	0	19	240	360	600			

Sub code	Course	Category	Periods/Week					Maximum Marks		
			L	T	P	C	CA	FE	Total	
Theory Course (s)										

12:11 PM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

Mathematical models of multi degree of freedom systems, orthogonality of normal modes, free and forced vibrations of multi degree of freedom systems, Mode superposition technique, response spectrum method, Applications.

Unit -IV Dynamic Response of Continuous Systems
Mathematical models of continuous systems, Free and forced vibration of continuous systems, Rayleigh – Ritz Method – I simulation using Conservation of energy – I simulation using Virtual Work, Applications.

Passed by Board of studies Approved in Academic Council

M.E. Structural Engineering (R-2020)

Unit – V Direct Integration Methods for Dynamic Response
Damping in MDOF systems, Nonlinear MDOF systems, step by step numerical integration algorithms, substructure technique, Applications.

Total: 45 periods

Reference Books:

1. Anil K. Chopra, Dynamics of Structures, Pearson Education, 5th Edition 2017
2. Leonard Meirovitch, Elements of Vibration Analysis, McGraw Hill, 2017, IOS Press, 2008
3. Maria Paz, Structural Dynamics - Theory and Computation, Kluwer Academic Publishers, 2nd Edition 2004
4. Roy R. Craig, Jr., Andrew J. Kurdikis, Fundamentals of Structural Dynamics, John Wiley & Sons, 2011

Mapping of Course Outcomes (COs) with Programme Outcomes (POs) Programme

Mythili D

Dr Shanmugasundaram

8 others

You

People

All muted Add people Host controls

- Dr Shanmugasundaram Presentation
- EEC AGRI HOD Meeting host
- Kalaiselvan Periyasamy
- Mythili D Meeting host
- Sasi Kumar
- SOUNDARA B
- thirugnanasambandam s...

12:15 PM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

EXCEL ENGINEERING COLLEGE
(Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NBA and NAAC with 'A' and Recognized by UGC(20/128)
KOMARAPALAYAM - 637303

DEPARTMENT OF CIVIL ENGINEERING

III - BOARD OF STUDIES

AGENDA

1. To discuss and pass the syllabi of V and VI semesters of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
2. To discuss and pass the syllabi of the Professional and Open Electives of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
3. To discuss and pass the syllabi of the One Credit Courses of B.E. Civil

SOUNDARA B

Dr Shanmugasundaram

9 others

You

People

Mute all Add people Host controls

- EEC AGRI HOD Meeting host
- Elanthendral M
- Kalaiselvan Periyasamy
- Mythili D Meeting host
- Sasi Kumar
- SOUNDARA B
- thirugnanasambandam s...

12:34 PM | ckg-pgzs-ojy

Meet - ckg-pgzs-ojy - Google Chrome
meet.google.com/ckg-pgzs-ojy?authuser=0&pli=1

Dr Shanmugasundaram is presenting

EXCEL ENGINEERING COLLEGE (Autonomous)
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NSA and NAAC with "A" and Recognized by UGC(28/128)
KOMARAPALAYAM - 637305

DEPARTMENT OF CIVIL ENGINEERING
III -BOARD OF STUDIES
AGENDA

1. To discuss and pass the syllabi of V and VI semesters of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
2. To discuss and pass the syllabi of the Professional and Open Electives of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.
3. To discuss and pass the syllabi of the One Credit Courses of B.E. Civil Engineering Programme for the students admitted from 2020-21 academic year onwards.

thirugnasambandam se...

Dr Shanmugasundaram

8 others

You

People

Mute all Add people Host controls

- Dr Shanmugasundaram Presentation
- EEC AGRI HOD Meeting host
- Elanthendral M
- Kalaiselvan Periyasamy
- Mythili D Meeting host
- Sasi Kumar
- SOUNDARA B
- t thirugnasambandam s...

12:41 PM | ckg-pgzs-ojy

12:41 PM 2/25/2022