

## **ERODE SENGUNTHAR ENGINEERING COLLEGE**



(An Autonomous Institution, Affiliated to Anna University, Chennai)

PERUNDURAI, ERODE – 638 057



# Department of Civil Engineering 6<sup>th</sup> BOARD OF STUDIES MEETING

17th JUNE, 2023 @ 10.30 am

ZOOM ONLINE MEET

https://us06web.zoom.us/j/88430891034?pwd=V202d1VpY2xkNk84QnJnL1IXbHVmUT09



# **ERODE SENGUNTHAR**

#### **ENGINEERING COLLEGE**

(An Autonomous Institution)

Approved by AICTE, New Delhi, Permanently Affiliated to Anna University- Chennai, Accredited by National Board of Accreditation (NBA), New Delhi & National Assessment and Accreditation Council (NAAC), Bangalore with A Grade PERUNDURAI -638 057, TAMILNADU, INDIA.



#### DEPARTMENT OF CIVIL ENGINEERING 6<sup>th</sup> Board of Studies Meeting – AGENDA

ITEM	PARTICULARS
BOS / CIVIL 6.1	Welcoming new Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Civil Engineering.
BOS / CIVIL 6.2	Confirmation of the Minutes of 6 <sup>th</sup> Board of Studies Meeting and Action taken report of 6 <sup>th</sup> Board of Studies meeting.
BOS / CIVIL 6.3	Review of curriculum for the B.E. Civil Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.4	Review of syllabus for the first 2 semesters for the B.E. Civil Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.5	Review of vertical courses identified for the B.E. Civil Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.6	Review of Tamil courses for the B.E. Civil Engineering programme students admitted in 2022-23 and 2023-24 as per Anna University direction.
BOS / CIVIL 6.7	Review of curriculum for the M.E. Environmental Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.8	Review of syllabus for the first 2 semesters for the M.E. Environmental Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.9	Review of Professional Elective courses identified for the M.E. Environmental Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.10	Review of curriculum for the M.E. Structural Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.11	Review of syllabus for the first 2 semesters for the M.E. Structural Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.12	Review of Professional Elective courses identified for the M.E. Structural Engineering programme offered under Regulation 2023.
BOS / CIVIL 6.13	Review of syllabi of courses offered to other departments
BOS / CIVIL 6.14	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BOS / CIVIL 6.15	Any other items
BOS / CIVIL 6.16	Vote of Thanks

# The following members were present in the Board of Studies Meeting

S. No.	Name & Designation	Category
	Dr. K. M. Gopalakrishnan,	
1.	Professor & HoD,	
	Department of Civil Engineering,	Chairman
	Erode Sengunthar Engineering College.	
	Dr. K. Nalina,	
	Professor,	
2.	Department of Civil Engineering,	University Nominee
	PSG College of Technology,	
	Coimbatore.	* ***
	Mr. A. Punitha Kumar	
- 2	Associate Professor/HoD,	
3.	Department of Structural and Geotechnical Engineering,	
	Vellore Institute of Technology,	
	Vellore Campus, Vellore.	
	Dr.A.Geetha Selvarani	Academic Experts
	Professor & Head,	8
4.	Department of Civil Engineering,	
	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,	
	Avadi, Chennai.	
	Er.Ravishankar Subramanaian,	-
	Director,	
5.	Integino Structural Solutions Pvt. Ltd.,	Representative fromIndustry
5.	No.58/61, Kandan Nagar,	CorporateSector
	2 <sup>nd</sup> Street, Nungambakkam, Chennai.	
	Mr. Habbis Mohameed,	
6.	TPK Infra Projects,	Alumni
	Tiruppur.	
	Dr. S. Christian Johnson,	
7.	Professor,	*
<i>,</i> .	Department of Civil Engineering,	
	Erode Sengunthar Engineering College, Perundurai.	
	Dr.A.Gopalan,	
8.	Professor,	
	Department of Civil Engineering,	
	Erode Sengunthar Engineering College, Perundurai.	
	Dr.P.Balamurugan,	Internal Members
9.	Associate Professor,	
	Department of Civil Engineering,	
	Erode Sengunthar Engineering College, Perundurai.	4
	Dr.S.Arulmozhi,	
10.	Associate Professor,	
	Department of Civil Engineering,	
	Erode Sengunthar Engineering College, Perundurai.	

		Welcoming Board of Studies members and opening remarks by the Chairman,
		Board of Studies, Department of Civil Engineering.
		Discussion
POG/ORAH /K :		The Chairman, Board of Studies welcomed all the members of the meeting for
BOS/CIVIL/6.1	:	discussing B.E - Civil Engineering, M.E Environmental Engineering and M.E
		Structural Engineering curriculum and syllabus of I & II semesters under
		Regulations 2023. The members presented in the Board of Studies Meeting are
		given in Annexure I.
	T	Confirmation of the Minutes of 05th Board of Studies Meeting and Action taken
		report of 05th Board of Studies meeting.
		Discussion
		The Chairman presented the Minutes of 5th Board of Studies Meeting which was
BOS/CIVIL/6.2	:	held on 23.07.2022 and action taken report of the same.
		Resolution
	It is resolved to recommend the Minutes of 5th Board of Studies Mee	
action taken report of the same is submitted to the Ac		action taken report of the same is submitted to the Academic Council for approval.
		Approval of Curriculum for the B.E. Civil Engineering programme offered under
		Regulations 2023.
		Discussion
		The Chairman presented the Curriculum for B.E Civil Engineering of all semesters
		and syllabus of I & II semesters under the Regulations 2023.
BOS/CIVIL/6.3	:	Dr. A. Geetha Selvarani enquired about the syllabus framed by common forum or
		from department. The chairman replied that, the first two semester's syllabuses are
		framed by the Science & Humanities department.
		Resolution
		The curriculum for the B.E. Civil Engineering programme under -Regulations 2023
		is recommended and the same is submitted to the Academic Council for approval.
		Review of syllabus belongs to first and second semester for the B.E. Civil
BOS/CIVIL/6.4		Engineering programme offered under Regulations 2023.
	L	

		Discussion
		Dr. K. Nalina enquired about the Mechanics for Engineers is common to all the
		branches and the syllabus framing. The chairman replied that the syllabus is
		common to all the branches and the syllabus was framed by Mechanical
		Engineering Department. The Members suggested to inter-change the unit IV and
		V. He also asked to members to their suggestion, if there is suggestion we can
		incorporate in the syllabus.
		Resolution
		It is resolved to recommend the syllabus for the B.E. Civil Engineering programme
under Regulations 2023 and the same is submitted to the		under Regulations 2023 and the same is submitted to the Academic Council for
-		approval.
*	7	Approval of Curriculum for the M.E. Environmental Engineering programme
		offered under Regulations 2023.
		Discussion
		The Chairman presented the Curriculum for M.E Environmental Engineering of all
ruk data ji i	2.	semesters and syllabus of all semester under the Regulations 2023 and asked the
		members to give their suggestion, if there is suggestion we can incorporate in the
BOS/CIVIL/6.5	:	syllabus.
	×	Dr. A. Geetha Selvarani suggested to include Remote Sensing & GIS in core or
- 1		Professional Elective. The Chairman agreed to include the same.
*		Resolution
		The curriculum for the M.E. Environmental Engineering programme under -
Regulations 2023 is recommen		Regulations 2023 is recommended and the same is submitted to the Academic
		Council for approval.
3		Review of syllabus belongs to M.E. Environmental Engineering programme
		offered under Regulations 2023.
		Dr. A. Geetha Selvarani suggested to check and review the Unit 3, 4 and 5 and to
BOS/CIVIL/6.6	:	include case studies in unit 5 in Physical and Chemical Treatment Systems for
		Water and Wastewater. The Chairman agreed to change the same.
		Dr.A.Punitha Kumar suggested to change the Environmental Chemistry Lab as
		per the experiment wise. The Chairman agreed to change the same.

		Dr. A. Geetha Selvarani suggested to add one case study in all the units in
		Biological Treatment Process for Wastewater. The Chairman agreed to include the
		same.
		<b>Dr.A.Punitha Kumar</b> suggested to provide at least one text books for each subject.
		Dr. K. Nalina and Dr. A. Geetha Selvarani suggested that single text books is not
5		possible for PG courses and suggested to include latest edition as references.
		Dr.A.Punitha Kumar suggested that as per NBA guidelines, five POs are only
		available for PG course. Check it and provide. The Chairman agreed to include the
		same.
		Resolution
		It is resolved to recommend the syllabus for the M.E Environmental Engineering
		programme under Regulations 2023 and the same is submitted to the Academic
		Council for approval.
		Approval of Curriculum for M.E. Structural Engineering programme offered under
		Regulations 2023.
		Discussion
		The Chairman presented the Curriculum for M.E Structural Engineering of all
		semesters and syllabus of all semester under the Regulations 2023 and asked the
BOS/CIVIL/6.7	:	members to give their suggestion, if there is suggestion we can incorporate in the
		syllabus.
		Resolution
		The curriculum for the M.E. Structural Engineering programme under -Regulations
		2023 is recommended and the same is submitted to the Academic Council for
		approval.
		Review of syllabus belongs to M.E. Structural Engineering programme offered
		under Regulations 2023.
		Dr.K.Nalina and Dr. A. Punitha Kumar suggested to include Code of Practice
BOS/CIVIL/6.8	:	and also include IS codes in reference for Structural Dynamics and Earthquake
		Engineering subject.
		Dr.A.Punitha Kumar suggested to include conduct bridge course, design of
		tension members in Unit 1, wind load calculation in unit 3, provide IS codes such

as IS1875, IS1893 in reference for the Advanced Steel Structures subject.

**Dr.A.Punitha Kumar** suggested to include plane where two dimensional is used and solid where three dimensional is used in unit 4 and also to include Rajasekaran and Reddy books in reference for Finite Element Analysis in Structural Engineering.

**Dr.K.**Nalina considered to add fire resistant design or measures for Advanced Concrete Structures.

**Dr.K.**Nalina suggested to include ABACUS and SAP 2000 in Structural Design Studio Lab.

**Dr.K.Nalina and Dr.A.Punitha Kumar** suggested to include Structural Stability subject as core or select it as mandatory during Elective selection and also to include Shang Lee book in reference.

**Dr.A.Punitha Kumar** suggested to include Advanced Structural Design by Krishnaraju book in reference for Prefabricated Structures.

**Dr.K.Nalina and Dr.A.Punitha Kumar** suggested to change Advanced Prestressed Concrete as Design of Prestressed Concrete Structures subject.

**Dr.A.Punitha Kumar** suggested to include P.C.Varghese, Punmia, Ashok K.Jain, Subramaniya book in Advanced Design of Foundation Structures subject.

**Dr.K.Nalina** suggested that all the units should have near equal contact hours. there should not be more deviation in contact hours.

#### Resolution

It is resolved to recommend the syllabus for the M.E Structural Engineering programme under Regulations 2023 and the same is submitted to the Academic Council for approval.

BOS/CIVIL/6.9

Confirmation and approvals of verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in the Academic Year 2021-22 onwards as per the direction of Anna University (L.No.5749/AU/CAC/Honours/2022 dated 16.11.2022).

Discussion

The chairman presented the verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Civil Engineering in Regulations 2019 for

Anna University. The BoS members approved the same.  Resolution  It is resolved verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in				
Resolution  It is resolved verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in the Academic Year 2021-22 onwards as per the direction of Anna University to the Academic Council for Approval.		students admitted in the Academic Year 2021-22 onwards as per the direction of		
It is resolved verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in the Academic Year 2021-22 onwards as per the direction of Anna University to the Academic Council for Approval.	=	Anna University. The BoS members approved the same.		
Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in the Academic Year 2021-22 onwards as per the direction of Anna University to the Academic Council for Approval.		Resolution		
the Academic Year 2021-22 onwards as per the direction of Anna University to the Academic Council for Approval.		It is resolved verticals for awarding Honours, Honours with Specialization and		
Academic Council for Approval.		Minor Degree - B.E Civil Engineering in Regulations 2019 for students admitted in		
		he Academic Year 2021-22 onwards as per the direction of Anna University to the		
Any other items				
Any other items				
		Any other items		
Common points suggested by the members as concluding remark		Common points suggested by the members as concluding remark		
Suggested to update the text and reference books with latest edition		Suggested to update the text and reference books with latest edition		
BOS/CIVIL/6.10 and include on-lineresources. The chairman of Board of Studies agreed	BOS/CIVIL/6 10	and include on-lineresources. The chairman of Board of Studies agreed		
and assured to incorporate the changes suggested by the members	200,61112,0.10	and assured to incorporate the changes suggested by the members		
wherever possible.		wherever possible.		
The chairman thanked all the members for their valuable suggestions		• The chairman thanked all the members for their valuable suggestions		
and coordination.		and coordination.		

Chairman

BoS - Civil.
Chairman - BoS
Dept. of Civil Engg. - ESEC

#### ANNEXURE - I

The following members presented in the Board of Studies Meeting.

S. No.	Name & Designation	Category	Signature
	Dr. K. M. Gopalakrishnan,		
	Professor & HoD,	Chairman	
1.	Department of Civil Engineering,	Chairman	( 90
	Erode Sengunthar Engineering College.		K.M.
	Dr. K. Nalina,		
	Professor,		,
2.	Department of Civil Engineering,	University Nominee	
2.	PSG College of Technology,		
	Coimbatore.		
	Mr. A. Punitha Kumar		
	Associate Professor/HoD,		
	Department of Structural and Geotechnical		100
3.	Engineering,		
9	Vellore Institute of Technology,		
	Vellore Campus, Vellore.	Academic Experts	
4.	Dr.A.Geetha Selvarani	•	ON IN IN IN INCOME
	Professor & Head,		ONLINE MODE
	Department of Civil Engineering,		
	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of		
	Science and Technology,	*	
	Avadi, Chennai.		
	Er.Ravishankar Subramanaian,		
	Director,	Representative fromIndustry/	
5.	Integino Structural Solutions Pvt. Ltd.,	CorporateSector	
	No.58/61, Kandan Nagar,	Corporatesector	
	2 <sup>nd</sup> Street, Nungambakkam, Chennai.		`
	Mr. Habbis Mohameed,		
6.	TPK Infra Projects,	Alumni	
	Tiruppur.		
	Dr. S. Christian Johnson,		A
_	Professor,		
7.	Department of Civil Engineering,		19ml
	Erode Sengunthar Engineering College, Perundurai.		
	Dr.A.Gopalan,		
	Professor.		1.
8.	Department of Civil Engineering,		
	Erode Sengunthar Engineering College, Perundurai.		
	Dr.P.Balamurugan,	Internal Members	^
	Associate Professor,	internal Members	(2)
9.	,		
	Department of Civil Engineering,	8	
	Erode Sengunthar Engineering College, Perundurai.		
	Dr.S.Arulmozhi,	v.	# husei
10.	Associate Professor,		Miles
	Department of Civil Engineering,		A.,
	Erode Sengunthar Engineering College, Perundurai.		1

Chairman Bos Dept. of Civil Engg. - ESEC

# ANNEXURE – II DEPARTMENT OF CIVIL ENGINEERING

#### Screen Shots of 06<sup>th</sup> Board of Studies Meeting

Name of the Department

: Civil Engineering

Name of the Board

: Civil Engineering

**Programmes** 

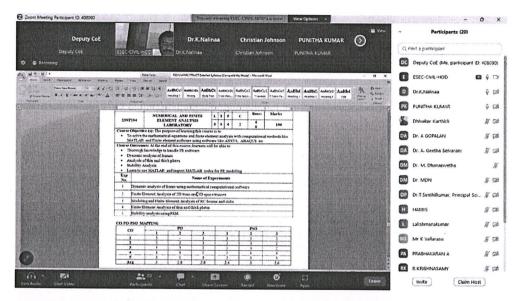
: B.E. – Civil Engineering

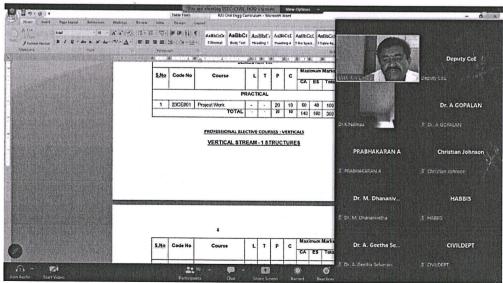
Date, Time & Mode

: 17.06.2023 - 10.30 AM & ONLINE

Zoom Link

https://us06web.zoom.us/j/88430891034?pwd=V202d1VpY2xkNk84QnJnL1IXbHVmUT09





Chairman - BoS Dept. of Civil Engg. - ESEC



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PERUNDURAI -638 057, TAMILNADU, INDIA.





#### DEPARTMENT OF CIVIL ENGINEERING

### 6<sup>th</sup> Board of Studies-Action taken report

Sl.No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
		Suggested to inter-change the unit IV and V in Mechanics for Engineers subjects	Unit IV and V in Mechanics for Engineers subjects are interchanged.	
		Suggested to include Code of Practice and also include IS codes in reference for Structural Dynamics and Earthquake Engineering subject.	Included IS 4326, IS 1893 and IS 13920.	
		Considered to add fire resistant design or measures for Advanced Concrete Structures.	Included fire resistant design for structural elements in Unit III.	
1	Dr. K. Nalina Professor / Civil / PSG / Coimbatore	Suggested to include ABACUS and SAP 2000 in Structural Design Studio Lab.	ABACUS and SAP 2000 is included in Structural Design Studio Lab.	
	Trolessor / Civii / I SG / Combatore	Suggested to include Structural Stability subject as core or select it as mandatory during Elective selection and also to include Shang Lee book in reference.	Sung C. Lee, "Stability of Structures: Principles and Applications" book is included in reference.	
		Suggested to change Advanced Prestressed Concrete as Design of Prestressed Concrete Structures subject.	Revised the title as "Design of Prestressed Concrete Structures"	
		Suggested that all the units should have near equal contact hours. There should not be more deviation in contact hours.	Maintained equal contact hours.	-

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2		Suggested to include Remote Sensing & GIS in core or Professional Elective.	Included the Remote Sensing & GIS in Professional Elective - I	
	Dr. A. Geetha Selvarani Professor / Civil / Vel-Tech Chennai	Suggested to check and review the Unit 3, 4 and 5 and to include case studies in unit 5 in Physical and Chemical Treatment Systems for Water and Wastewater.	Physical and Chemical Treatment Systems for Water and Wastewater syllabus is reviewed, 3 <sup>rd</sup> and 4 <sup>th</sup> unit is revised, Case study is provided in 5 <sup>th</sup> unit.	, e
		Suggested to add one case study in all the units in Biological Treatment Process for Wastewater.	Case study is provided in all the units of Biological Treatment Process for Wastewater	
		Suggested to change the Environmental Chemistry Lab as per the experiment wise.	Environmental Chemistry Lab as per the experiment wise is revised as per the experiments	
	Dr.A.Punitha Kumar Associate Professor / Department of Structural and Geotechnical Engineering / VIT / Chennai	Suggested to provide at least one text books for each subject.	The other members suggested that single text books are not possible for PG courses and suggested to include latest edition as references. Hence latest edition books are included.	
		Suggested that as per NBA guidelines, five POs are only available for PG course. Check it and provide.	Three POs and PSOs are provided.	ev.
3		Suggested to conduct bridge course, design of tension members in Unit 1, wind load calculation in unit 3, provide IS codes such as IS1875, IS1893 in reference for the Advanced Steel Structures subject.	Design of tension members is included in Unit 1 and wind load calculation in unit 3. IS codes such as IS1875, IS1893 is included in reference for the Advanced Steel Structures subject.	
		Suggested to include plane where two dimensional is used and solid where three dimensional is used in unit 4 and also to include Rajasekaran and Reddy books in reference for Finite Element Analysis in Structural Engineering.	Planes are provided where two dimensional is used and solid is provided where three dimensional is used in unit 4. Rajasekaran and Reddy books are included in reference for Finite Element Analysis in Structural Engineering	
		Suggested to include Advanced Structural Design	Advanced Structural Design by	·

by Krishnaraju book in reference for Prefabricated Structures.	Krishnaraju book is included in reference for Prefabricated Structures.	
Suggested to include P.C.Varghese, Punmia, Ashok K.Jain, Subramaniya book in Advanced Design of Foundation Structures subject.	P.C.Varghese, Punmia, Ashok K.Jain, Subramaniya book is included in Advanced Design of Foundation Structures subject.	

CHAIRMAN

BOARD OF STUDIES

**CIVIL ENGINEERING** 

Chairman - BoS
Dept. of Civil Engg. - ESEC