### ERODE SENGUNTHAR ENGINEERING COLLEGE (An Autonomous Institution, Affiliated to Anna University, Chennai) PERUNDURAI, ERODE - 638 057



#### DEPARTMENT OF AGRICULTURAL ENGINEERING 7th BOARD OF STUDIES MEETING

09<sup>th</sup> April, 2025 @ 11.30 AM

ONLINE GOOGLE MEET

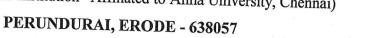
#### Link:

https://us06web.zoom.us/j/83218082997?pwd=BnCOFWcrNNLdZbx DOu6FXxFPVdglqz.1



#### ERODE SENGUNTHAR ENGINEERING COLLEGE

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



#### DEPARTMENT OF AGRICULTURAL ENGINEERING

7<sup>th</sup> Board of Studies Meeting

**Date & Time**: 09.04.2025 & 11.30 AM

Link: https://us06web.zoom.us/j/83218082997?pwd=BnCOFWcrNNLdZbxDOu6FXxFPVdglqz.1

#### **AGENDA**

The 7<sup>th</sup> Board of Studies Meeting is convened on 09.04.2025 & 11.30 AM. The agenda for the meeting is as follows.

BoS/AGRI 7.1	:	Welcome to Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Agricultural Engineering.
BoS /AGRI 7.2	:	Confirmation of the Minutes of 06 <sup>th</sup> Board of Studies Meeting and Action taken report of 06 <sup>th</sup> Board of Studies meeting.
BoS /AGRI 7.3	:	Review of Curriculum and syllabus for the 5 <sup>th</sup> and 6 <sup>th</sup> semesters for the B. Tech. Agricultural Engineering programme offered under Regulation 2023.
BoS /AGRI 7.4	:	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BoS /AGRI 7.5	:	Any other items

BOARD OF STUDIES - AGRI Chairman - BoS Dept. of Agriculture Engineering - ESEC



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



#### PERUNDURAI, ERODE - 638057

#### DEPARTMENT OF AGRICULTURAL ENGINEERING

#### 7<sup>th</sup> BOARD OF STUDIES MEETING

#### MINUTES OF THE MEETING

The 7<sup>th</sup> Board of Studies meeting of Department of Agricultural Engineering was held on 10<sup>th</sup> April, 2025 at 11.30 a.m. through online mode.

S. No.	Name & Designation	Category
	Dr. K. M. Gopalakrishnan, Professor & HoD,	
1.	Department of Agricultural Engineering,	
	Erode Sengunthar Engineering College,	Chairman
	Perundurai - 638 057, Erode.	
	Dr.V.G.Kalpana,	,
	Assistant Professor (Sr.Gr.),	2" g
2.	Department of Civil Engineering,	I Inivancia. DI
	Coimbatore Institute of Technology,	University Nominee
	Coimbatore - 641014.	
	Dr. T. Senthilkumar, M.E(Ag), Ph.D,FIE.,	
9	Principal Scientist (FMP) & In-charge	4.1.
3.	Farm Machinery and Post Harvest Machinery & Equipment	
3.	Testing Centre	Academic Experts
	ICAR-Central Institute of Agricultural Engineering Regional	
	centre, Coimbatore, 641007.	
	Dr. P. Lakshmanakumar,	
	Associate Professor,	
4.	Adhiyamaan College of Agricultural & Research,	Academic Experts
	Athimugam, Shoolagiri (TK),	Academic Experts
	Krishnagiri – 635 105.	5
	Mr. S. P. Rajkumar,	
	Managing Director,	Representative from Indu
5.	Mobitech Wireless Solutions Pvt. LtD.,	Corporate
	1/4, Vengamedu,	Sector
	Perundurai, Erode - 638 052.	Sector
	Dr. M. Dhananivetha	
	Associate Professor,	
6.	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College.	internal Members
	Perundurai - 638 057, Erode.	
	Dr. R. M. Muthuraman,	
7.	Associate Professor,	
	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College.	internal MEINOEIS
	Perundurai - 638 057, Erode.	

Perundurai - 638 057, Erode.  Mr. A. K. Karthikeyan, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members			75. 77. 75	
8. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. K. Bharathi, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. R. K. M. Harishkumar Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. A. K. Karthikeyan, Assistant Professor,  11. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor,  12. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,			Mr. K. Murugesan,	
Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. K. Bharathi, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. R. K. M. Harishkumar Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. A. K. Karthikeyan, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members		Q	Associate Professor,	
Perundurai - 638 057, Erode.  Ms. K. Bharathi, Assistant Professor,  9. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. R. K. M. Harishkumar Assistant Professor,  10. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Mr. A. K. Karthikeyan, Assistant Professor,  11. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor,  12. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,		0.	Department of Agricultural Engineering,	Internal Manual
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Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members  Internal Members	-	11.		Intomal M. 1
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Ms. R. Keerthika, Assistant Professor,  Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members	и,		Perundurai - 638 057, Erode.	
Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members  Internal Members			Ms. R. Keerthika,	
12. Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,  Internal Members	p			
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Perundurai - 638 057, Erode.  Ms. T. Dharanipriya,		1 - 1	Erode Sengunthar Engineering College	Internal Members
Ms. T. Dharanipriya,	# =	1	Perundurai - 638 057. Frode	
, , , , , , , , , , , , , , , , , , ,	<u>2</u> -		Ms. T. Dharanipriya.	
Assistant Professor	1.1	/ / /	Assistant Professor,	
13 Department of A - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		13.		T-12-12-1
Erode Sengunthar Engineering College,  Internal Members			Erode Sengunthar Engineering College	Internal Members
Perundurai - 638 057, Erode.	^	*	Perundurai - 638 057 Frode	
Perundurai - 638 057, Erode.	35 - 90		Perundurai - 638 057, Erode.	

BoS /AGRI 7.1	Ţ.	WELCOME TO BOARD OF CONTROL
7.1		WELCOME TO BOARD OF STUDIES MEMBERS AND
		OPENING REMARKS BY THE CHAIRMAN, BOARD OF STUDIES, DEPARTMENT OF ACRICULTURAL
		STUDIES, DEPARTMENT OF AGRICULTURAL ENGINEERING.
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ž		The Chairman, Board of Studies for the Department of Agricultural
		Engineering, welcomed all the members of Board of Studies. He
		presented the introduction and achievements of the department and
· · · · · · · · · · · · · · · · · · ·		briefed the agenda to be discussed, followed by introduction of all
BoS /AGRI 7.2	•	members present in the meeting.
		CONFIRMATION OF THE MINUTES OF 06 <sup>TH</sup> BOARD OF
8		STUDIES MEETING AND ACTION TAKEN REPORT OF 06 <sup>TH</sup> BOARD OF STUDIES MEETING.
		The Chairman Roard of Styling C.
		The Chairman, Board of Studies for the Department of Agricultural
		Engineering presented the 6 <sup>th</sup> Board of Studies Minutes of the Meeting
		and Action taken Report for B. Tech. Agricultural Engineering.
BoS /AGRI 7.3	:	REVIEW OF CURRICHARD
7.5		REVIEW OF CURRICULUM AND SYLLABUS FOR THE 5 <sup>TH</sup>
		AND 6 <sup>TH</sup> SEMESTERS FOR THE B. TECH. AGRICULTURAL ENGINEERING PROGRAMME OFFERED LINES
v.		ENGINEERING PROGRAMME OFFERED UNDER REGULATION 2023.
<u>ē</u>		
		The Chairman, Board of Studies for the Department of Agricultural
, × ,		Engineering presented the B. Tech. Agricultural Engineering
- ,		curriculum, 5 <sup>th</sup> and 6 <sup>th</sup> semester syllabus. The members reviewed the
-		curriculum and syllabus and suggested the following points
*		• In 23AG503 – Irrigation and Drainage Engineering course,
		addition of irrigation tanks – components – design of sluices,
		wiers and bund maintenance has been included in unit III.
	2	• Addition of text book "C.R.Shanmugam and J.Kanagavalli, 2013.
5 G		Technology of Tanks. Reflection Publication trust Madurai" in
	1	the course 23AG503 - Irrigation and Drainage Engineering has
n		been suggested.
		• In 23AG603 – Farm machinery and equipment course, unit I title
	4.	has been changed from "Weeding" to "Intercultural equipment"
		and in unit IV the following content has been deleted "Selection"
		and specification of thresher for test – performance parameter
		General – Short run – Long run – Test report preparation and Data
		sneet".
* 1		• In 23AG604 – Operation and maintenance of Farm Machinery
		laboratory course inclusion of "operation of tractor in off road
	>	condition" in first exercise has been made.
		• Change of objective of the course 19AGX02 - Testing and
, , , , , , , , , , , , , , , , , , ,		evaluation of farm machinery and equipment from "Understand
e .		the different constrains involved in field machinery system" to
		"Understand about testing systems in India".

	_	
		• In Professional Elective II, Change of course title "Design of
		micro-irrigation system" to "Design of irrigation system".
BoS /AGRI 7.4	:	SUGGESTIONS FOR REVISIONS IN CURRICULUM & SYLLABI
		NEEDED FOR REGULATIONS 2023.
2		The members reviewed the curriculum, 5 <sup>th</sup> and 6 <sup>th</sup> semester syllabi and
		suggested the above points.
BoS /AGRI 7.5	:	ANY OTHER ITEMS
		The following value added courses were suggested by the members for
		the betterment of the students in placement.
		1. Solid works advances
		2. Auto CAD
		3. Testing and evaluation of farm machinery.
		Finally, The Chairman, Board of Studies for the Department of
2 2		Agricultural Engineering thanked the members in the meeting for their
		valuable suggestions to improve the curriculum and syllabus for the B.
Y		Tech Agricultural Engineering offered under regulation 2023.

BOARD OF STUDIES - AGRI Chairman - BOS Dept. of Agriculture Engineering - ESEC

#### ANNEXURE – I The following members presented in the Board of Studies Meeting

S. No. Name & Designation Catego Signature ry Dr. K. M. Gopalakrishnan. Professor & HoD. Department of Agricultural Engineering, 1. Chairman Erode Sengunthar Engineering College, Perundurai - 638 057, Erode. Dr.V.G.Kalpana, Assistant Professor (Sr.Gr.). Department of Civil Engineering, University 2. Online Mode Coimbatore Institute of Technology, Nominee Coimbatore - 641014. Dr. T. Senthilkumar, M.E(Ag), Ph.D,FIE., Principal Scientist (FMP) & In-charge, Farm Machinery and Post Harvest Machinery & Academic 3. **Equipment Testing Centre** Online Mode **Experts** ICAR-Central Institute of Agricultural Engineering Regional centre, Coimbatore, 641007. Dr. P. Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Academic 4. Online Mode **Experts** Athimugam, Shoolagiri (TK), Krishnagiri – 635 105. Mr. S. P. Rajkumar, Representative Managing Director, from Industry/ 5. Mobitech Wireless Solutions Pvt. LtD., Online Mode Corporate 1/4, Vengamedu, Perundurai, Erode - 638 052. Sector Dr. M. Dhananivetha Associate Professor. Internal 6. Department of Agricultural Engineering. Erode Sengunthar Engineering College, Members Perundurai - 638 057, Erode. Dr. R. M. Muthuraman, Associate Professor. Department of Agricultural Engineering, Internal 7. Erode Sengunthar Engineering College, Members Perundurai - 638 057, Erode. Mr. K. Murugesan. Associate Professor, Department of Agricultural Engineering, 8. Internal Erode Sengunthar Engineering College, Members Perundurai - 638 057, Erode. Ms. K. Bharathi. Assistant Professor. Department of Agricultural Engineering, Internal 9. Members Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.

10.	Mr. R. K. M. Harishkumar Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.	Internal Members	R.K. M. Had
11.	Mr. A. K. Karthikeyan, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.	Internal Members	4.27
12.	Ms. R. Keerthika, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.	Internal Members	to the
13.	Ms. T. Dharanipriya, Assistant Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.	Internal Members	pot

#### ANNEXURE - II

#### DEPARTMENT OF AGRICULTURAL ENGINEERING

#### Screen Shots of 7<sup>th</sup> Board of Studies Meeting

Name of the Department

: Agricultural Engineering

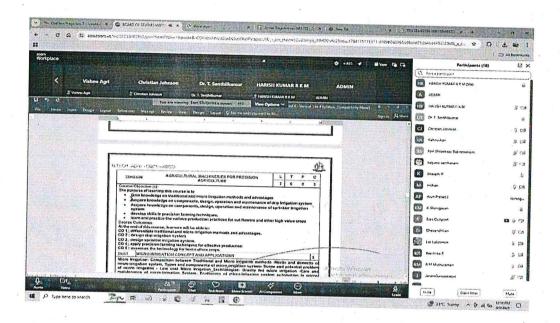
Name of the Board

: Agricultural Engineering

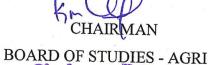
Programme

: B. Tech. - Agricultural Engineering.

Link: https://us06web.zoom.us/j/83218082997?pwd=BnCOFWcrNNLdZbxDOu6FXxFPVdglqz.1









# 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.



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Remarks			
Action Taken	In 23AG503 – Irrigation and Drainage Engineering course, addition of irrigation tanks – components – design of sluices, wiers and bund maintenance has been included in unit III.	Text book on Technology of Tanks. By C.R.Shanmugam and J.Kanagavalli, 2013. Reflection Publication trust, Madurai, is included in the course 23AG503 - Irrigation and Drainage Engineering.	In course, Unit I title of the course "23AG603 – Farm machinery and equipment" has been changed from "Weeding" to "Intercultural equipment" in unit IV and the following content has been deleted "Selection and specification of thresher for test – performance parameter General – Short run – Long run – Test report preparation and Data sheet".
Suggestion Given	Suggested to add "Irrigation tanks – components – design of sluices, wiers and bund maintenance" in unit III for the course 23AG503 – Irrigation and Drainage Engineering.	Addition of text book "C.R.Shanmugam and J.Kanagavalli, 2013. Technology of Tanks. Reflection Publication trust, Madurai" in the course 23AG503 - Irrigation and Drainage Engineering has been suggested.	In 23AG603 – Farm machinery and equipment course, unit I title has been changed from "Weeding" to "Intercultural equipment" and in unit IV the following content has been deleted "Selection and specification of thresher for test — performance parameter General — Short run — Long run — Test report preparation and Data sheet".
Name of the Expert	Dr. T. Senthilkumar, Principal Scientist (FMP) & In-charge, Farm Machinery and Post Harvest Machinery &	Equipment Testing Centre, ICAR - Central Institute of Agricultural Engineering Regional Centre, Coimbatore - 641007.	
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Addition of "operation of tractor in off road condition" in first exercise for the course 23AG604 – Operation and maintenance of Farm Machinery Laboratory.	Objective of the course 19AGX02 – Testing and evaluation of farm machinery and equipment has been changed from "Understand the different constrains involved in field machinery system" to "Understand about testing systems in India".	Course title for "Design of micro- irrigation system" in Professional Elective II has been changed to "Design of Irrigation System".
In 23AG604 – Operation and maintenance of Farm Machinery laboratory course inclusion of "operation of tractor in off road condition" in first exercise has been made.	Change of objective of the course 19AGX02 – Testing and evaluation of farm machinery and equipment from "Understand the different constrains involved in field machinery system" to "Understand about testing systems in India".	In Professional Elective II, Change of course title "Design of micro-irrigation system" to "Design of irrigation system".

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