ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638 057



Department of Agricultural Engineering

5th BOARD OF STUDIES MEETING

130 a 12th January 2024 @ 11.30 a.m.

ZOOM MEET LINK:

https://us06web.zoom.us/j/85242690141?pwd=Rc9ldH3olt MH38AaCA8qiOFsmgKACB.1

ERODE SENGUNTHAR ENGINEERING COLLEGE



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

PERUNDURAI, ERODE - 638057





5th BOARD OF STUDIES MEETING (HYBRID MODE)

Meeting Link:

https://us06web.zoom.us/j/85242690141?pwd=Rc9ldH3oltMH38AaCA8qiOFsmgKACB.1

Date & Time: 12.01.2024 & 11.30 a.m.

AGENDA

The 5th Board of Studies Meeting is convened on 12.01.2024 at 11.30 AM. The agenda for the meeting is as follows.

BoS /AGRI 5.1	:	Welcome to Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Agricultural Engineering.
BoS /AGRI 5.2	:	Confirmation of the Minutes of 04 th Board of Studies Meeting and Action taken report of 04 th Board of Studies meeting.
BoS /AGRI 5.3		Review of Curriculum for the B. Tech. Agricultural Engineering programme offered under Regulation 2023.
BoS /AGRI 5.4	:	Review of syllabus for the 3 rd semester for the B.Tech. Agricultural Engineering programme offered under Regulation 2023.
BoS /AGRI 5.5	:	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BoS /AGRI 5.6	:	Any other items

CHAIRMAN

BOARD OF STUDIES - AGRI

Chairman - BoS

Dept. of Agriculture Engineering - ESEC



ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638057





5th BOARD OF STUDIES MEETING

(HYBRID MODE)

 $\frac{\text{Meeting Link}}{\text{https://us06web.zoom.us/j/85242690141?pwd} = \text{Rc9ldH3oltMH38AaCA8qiOFsmgKACB.1}}$

MINUTES OF THE MEETING

The 5th Board of Studies meeting of Department of Agricultural Engineering was held on 12th January 2024 at 11.30 a.m. through hybrid mode.

S. No.	Name & Designation	Category
1.	Dr. K. M. Gopalakrishnan, Professor & HoD, Department of Agricultural Engineering, Erode Sengunthar Engineering College,	Chairman
	Perundurai - 638 057, Erode.	
	Dr. K. Nalina, Professor,	
2.	Department of Civil Engineering, PSG College of Technology, Coimbatore.	University Nominee
1 - 20 m	Dr. T. Senthilkumar, M.E(Ag), Ph.D,FIE., Principal Scientist (FMP) & In-charge, Farm	
3.	Machinery and Post Harvest Machinery & Equipment Testing Centre ICAR-Central Institute of Agricultural Engineering	Academic Experts
374	Regional centre, Coimbatore, 641007.	entre a magnetic de la composition de
4.	Dr. P. Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Athimugam, Shoolagiri (TK), Krishnagiri – 635 105.	Academic Experts
5.	Mr. S.P.Rajkumar, Managing Director, Mobitech Wireless Solutions Pvt. LtD., 1/4, Vengamedu, Perundurai, Erode - 638 052.	Representative from Industry/ Corporate Sector
6.	Dr. M. Dhananivetha Associate Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai - 638 057, Erode.	Internal Members

	Dr. R. M. Muthuraman, Associate Professor,	z
7.	Department of Agricultural Engineering,	Internal Members
7	Erode Sengunthar Engineering College,	
	Perundurai - 638 057, Erode.	
	Dr. N. Sekaran	
	Associate Professor,	
8.	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College,	
	Perundurai - 638 057, Erode.	4
	Ms. K. Bharathi,	
	Assistant Professor,	television of a second second
9.	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College,	
	Perundurai - 638 057, Erode.	
	Mr. R. K. M. Harishkumar	
	Assistant Professor,	The second of the second
10.	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College,	
	Perundurai - 638 057, Erode.	
	Mr. A. K. Karthikeyan,	
	Assistant Professor,	
11.	Department of Agricultural Engineering,	Internal Members
	Erode Sengunthar Engineering College,	
	Perundurai - 638 057, Erode.	results of the Society of

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BOS/AGRI 5.1	:	WELCOME ADDRESS AND OPENING REMARKS BY
		CHAIRMAN, BOARD OF STUDIES.
		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 members present in the meeting.
BOS/AGRI 5.2	:	CONFIRMATION OF THE 4th BOARD OF STUDIES
		MEETING MINUTES AND ACTION TAKEN REPORT.
		The Chairman, Board of Studies for the Department of
	.,	Agricultural Engineering presented the 4 th Board of Studies
		Minutes of the Meeting and Action taken Report for B. Tech.
		Agricultural Engineering.
BOS/AGRI 5.3	:	REVIEW OF CURRICULUM FOR THE B. Tech. AGRICULTURAL ENGINEERING PROGRAMME OFFERED
		UNDER REGULATION 2023. The Chairman, Board of Studies for the Department of
		Agricultural Engineering presented the B. Tech. Agricultural
9		Engineering curriculum and the professional elective subjects. The
		members reviewed the curriculum and professional elective
		subjects and suggested the following points.
		Name of course "Surveying for Agricultural Engineering"
en e		to be changed as "Surveying and leveling for Agricultural
		Engineering".
		A course on "Soil Mechanics for Agricultural Engineers" to
		be included in the 3 rd Semester.
		• Shifting the course on "Theory of Machines" from 5 th
		semester to 4 th semester.
	unio (i	Shifting the course on "Farm machinery and equipment - I"
		from 4 th semester to 5 th semester.
	o de Joseph	• Inclusion of "Farm machinery and equipment - II" course in 6 th semester.
First Sewing	197	Inclusion of a non-credit practical based "Rural

	Agricultural Work Experience" (5 days) course in 7 th	
	semester.	
	Change of vertical I title from "Farm power and	
	machinery" to" Farm machinery and energy".	
	 Inclusion of courses 	
a continue	1. Special farm equipments	
	2. Agricultural machineries for precision agriculture	
	3. Bio-energy resource technology	
178773.83	In place of	
	1. Plant protection and harvesting machinery	
1 . 1 2 45 . 7 (2) 17	2. IoT in Agriculture	
	3. Agri-informatics.	
	• In Vertical III, course as "Food quality management" to be	
	replaced in place of course on "Fundamentals of	
	Agricultural Extension Education".	
1	In Vertical IV, course as "Agro-informatics" to be replaced	
	by a course on "Landscape architecture".	
	In Vertical IV, "Human rights" course to be renamed as	
	"Human rights and professional ethics".	
	• In Vertical V, " Post harvest management and value	
A University of Light	addition of fruits and vegetables crops" should be replaced	
	as "Engineering practices for Horticulture crops"	
Augusta de la companya de la company	• In Vertical V, " Principles and practices of pest	
	management" course to be renamed as " Integrated Pest	
	and Disease management"	
A mass and the second	• In Vertical VI, "Agro-informatics" to be renamed as	
	"Landscape and urban Horticulture".	
BoS /AGRI 5.4 :	REVIEW OF SYLLABUS FOR THE 3 rd SEMESTER FOR THE	
ing menoning tidan ing menoning menoning menoning dia panggarangan melanggarangan melanggarang dia panggarang Terlah	B. Tech. AGRICULTURAL ENGINEERING PROGRAMME OFFERED UNDER REGULATION 2023.	and the second second
4	The Chairman, Board of Studies for the Department of	1
7	Agricultural Engineering presented the B. Tech. Agricultural	- 1
	Engineering 3 rd semester syllabi. The members reviewed the	
	syllabi and suggested the following points.	

the state of the s	
III & IV have to be merged and unit V on "Crop cultivation	
practices" has to be included.	
lesson of why. I fee by a 2. Inclusion of othe following practical exercises in crop	
startion on this basely laborates production and husbandry laboratory.	
1. Crop classification and its characteristics.	
feetheology arrives stress school as long dro2. Practicing various spray solutions using drone technology.	
in standard endougles back for he observed to be observed by the observed following text book for the course on "Principles"	41,48
Epractices of group production and practices of crop production.	
vin degenduardation Volume I and II bl. Field cop production Volume I and II' by Mr. Rajendra Prasad.	
B. Chandrasekaran., et al.	E Novel Company
in Stag about the free management practices 3n 3th Sugarcane crop management practices in India" by S. Ramesh et al.	
Bos /AGRI 5.5 : SUGGESTIONS FOR REVISIONS IN CURRICULUM &	
NESDET FOR REGULATIONS 2023. Syllabi and The members reviewed the curriculum and 3 rd semester syllabi and	
ENGRADA MENTAL DE LA LICERTORIA MENTAL DE L'ENCONTROLLA DE LA LICENTE DE L'ENCONTROLLA DE	
the above points.	
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suggested the above points. REPATE BoS /AGRI 5.6 : ANY OTHER ITEMS which while ladded courses were suggested by the lor the stratem of the students in members for the betterment of the students in placement. d works a fival ness 2. Auto CAD suggested the above points. 1. Solid works advances 2. Auto CAD	Commence of July 85.
suggested the above points. HER TP BoS /AGRI 5.6 : ANY OTHER ITEMS which while added courses were suggested by the for the for the for expect of the students in members for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD ling and a alterior of farm machinery 3. Testing and evaluation of farm machinery.	Control of the St.
suggested the above points. Bos /AGRI 5.6 : ANY OTHER ITEMS which will be added courses were suggested by the for the set expects of the stude its a members for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD ingrand c alumion of farm machinery 3. Testing and evaluation of farm machinery. Solid works and evaluation of farm machinery and evaluation of farm machinery.	Control of the Contro
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suggested the above points. BOS /AGRI 5.6 : ANY OTHER ITEMS The for the serious of the students in members for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD The form and contains the students in placement of the students in placement. Secsion described to applicate the extra members suggested to update the text and reference books estectables and include on-line resources. The form and contains the students in placement of the students in placement. 1. Solid works advances 2. Auto CAD The form and contains the students in placement of the students in placement of the students in placement. Secsion described and include on-line resources. The form and contains the students in the students in placement of the students in placement. Agricultural Engineering thanked the members in the meeting for	
suggested the above points. RELETTE BOS /AGRI 5.6: ANY OTHER ITEMS were The gfollowing value added courses were suggested by the numbers for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD They and a altestion of farm mechanics 3. Testing and evaluation of farm machinery. See singlested to appear the extra description and include on-line resources. Interesting for the betterment of the students in placement. 2. Finally, The Chairman, Board of Studies for the Department of acting farming the resources are finally, The Chairman, Board of Studies for the Department of acting farming the resources are their valuable suggestions to improve the curriculum and syllabus	
suggested the above points. Bos /AGRI 5.6 : ANY OTHER ITEMS The gollowing value added courses were suggested by the members for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD The gollowing value added courses were suggested by the members for the betterment of the students in placement. 1. Solid works advances 2. Auto CAD The gollowing value added courses were suggested by the members advances 2. Auto CAD The gollowing value added courses were suggested by the members in placement. 5. Solid works advances 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 6. Auto CAD The gollowing value added courses were suggested by the members in placement. 7. Auto CAD The gollowing value added courses were suggested by the members in placement. 8. Auto CAD The gollowing value added courses were suggested by the members in placement. 9. Auto CAD The gollowing value added courses were suggested by the members in placement. 1. Solid works advances 2. Auto CAD The gollowing value added courses were suggested by the members in placement. 1. Solid works advances 2. Auto CAD The gollowing value added courses were suggested to update the text and reference books are gollowed to update the text and reference book	

ANNEXURE – I

The following members presented in the Board of Studies Meeting

S. No.	Name & Designation	Category	Signature
Í.	Dr. K. M. Gopalakrishnan Professor and Head, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman	Km
2.	Dr. K. Nalinaa Professor Department of Civil Engineering PSG college of Technology Coimbatore - 641 004	University Nominee	luli
3.	Dr. T. Senthilkumar, M.E(Ag), Ph.D,FIE., Principal Scientist (FMP) & In-charge, Farm Machinery and Post Harvest Machinery & Equipment Testing Centre ICAR-Central Institute of Agricultural Engineering Regional centre, Coimbatore, 641007.	Academic Experts	12/01/2012
4.	Dr. P. Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Athimugam, Shoolagiri (TK), Krishnagiri – 635 105.		Janus 22
5.	Mr. S.P.Rajkumar, Managing Director, Mobitech Wireless Solutions Pvt. LtD., 1/4, Vengamedu, Perundurai, Erode - 638 052.	Representative from Industry/ CorporateSector	Kelmt
6.	Dr. M. Dhananivetha Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		12 Dar Hr
7.	Dr.R. M. Muthuraman Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		AF.
8.	Mr. R. K. M. Harishkumar Assistant Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.	Internal Members	p.k.m. Hal
9.	Mr. A.K.Karthikeyan Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057.		5.27
10.	Mrs.K.Bharathi, Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057		14 Blue

ANNEXURE – II

DEPARTMENT OF AGRICULTURAL ENGINEERING

Screen Shots of 5th Board of Studies Meeting

Name of the Department

: Agricultural Engineering

Name of the Board

: Agricultural Engineering

Programmes

: B. Tech. – Agricultural Engineering

Zoom Link

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https://us06web.zoom.us/j/85242690141?pwd=Rc9ldH3oltMH38AaCA8qiOFsmgKACB.1





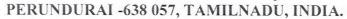


ERODE SENGUNTHAR

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



DEPARTMENT OF AGRICULTURAL ENGINEERING

5th Board of Studies - Action taken report





S. No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
		Suggested to rename the course "Surveying for Agricultural Engineering" to be changed as "Surveying and leveling for Agricultural Engineering".	Title for the course "Surveying for Agricultural Engineering" has been changed "Surveying and leveling for Agricultural Engineering".	
1.	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.	Suggested to include "Soil Mechanics for Agricultural Engineers" in the 3 rd Semester.	"Soil Mechanics for Agricultural Engineers" has been included in the 3 rd Semester.	
		Suggested to include "Theory of Machines" course from 5 th semester to 4 th semester.	"Theory of Machines" course from 5 th semester has been changed to 4 th semester	
		Suggested to include "Farm machinery and equipment - I" from 4 th semester to 5 th semester.	Course on "Farm machinery and equipment - I" from 4 th semester has been included in 5 th semester.	
		Suggested to include "Farm machinery and equipment - II" course in 6 th semester and inclusion of a non-credit practical based	Course on "Farm machinery and equipment - II" course in 6 th semester and inclusion of a non-credit practical based	
		"Rural Agricultural Work Experience" (5 days) course in 7 th semester.	"Rural Agricultural Work Experience" (5 days) course in 7 th semester has been included.	
		Suggested to change vertical I title from "Farm power and machinery" to "Farm	Title of vertical I " Farm power and machinery" has been changed as "Farm	
		machinery and energy" and to include following courses.	machinery and energy" and the following courses were included.	
			1. Special farm equipments	
		 Special farm equipments Agricultural machineries for precision 	Agricultural machineries for precision agriculture	

		agriculture 3. Bio-energy resource technology In place of 1. Plant protection and harvesting machinery 2. IoT in Agriculture. 3. Agri-informatics.	3. Bio-energy resource technology In place of 1. Plant protection and harvesting machinery 2. IoT in Agriculture. 3. Agri-informatics.	
		Suggested to replace Vertical III, course "Fundamentals of Agricultural Extension Education" as "Food quality management".	Course on "Fundamentals of Agricultural Extension Education" in Vertical III has been replaced as "Food quality management".	
		Suggested to replace Vertical IV, course "Agro-informatics" as "Landscape architecture".	Course on "Agro-informatics" in Vertical IV has been replaced as "Landscape architecture".	
		Suggested to rename Vertical IV, "Human rights" course as "Human rights and professional ethics".	Title of the Vertical IV course "Human rights" has been renamed as "Human rights and professional ethics".	
Associate P Adhiyamaa 2 Research,	Dr.P.Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Athimugam, Shoolagiri (TK),	Suggested to replace Vertical V course " Post harvest management and value addition of fruits and vegetables crops" as " Engineering practices for Horticulture crops"	Vertical V course " Post harvest management and value addition of fruits and vegetables crops" has been replaced as "Engineering practices for Horticulture crops"	
Krishnagiri		Suggested to rename Vertical V course " Principles and practices of pest management" as " Integrated Pest and Disease management".	Title of the Vertical V course "Principles and practices of pest management" has been renamed as " Integrated Pest and Disease management".	
		Suggested to replace Vertical VI course "Agro-informatics" as "Landscape and urban horticulture".	Vertical VI course "Agro-informatics" has been replaced as "Landscape and urban horticulture".	
		Suggested to merge units III & IV and to include unit V "Crop cultivation practices" in the course "Principles and practices of crop production".	In "Principles and practices of crop production" units III & IV has been merged and unit V on "Crop cultivation practices" has been included.	

KIM CHI

Suggested to include of the following The following practical exercises in crop practical exercises in crop production and production and husbandry laboratory has husbandry laboratory. been included. classification 1. Crop 1. Crop classification and and characteristics. characteristics. 2. Practicing various spray solutions using 2. Practicing various spray solutions using drone technology. drone technology. Suggested to include the following text book The following text book for the course on for the course on "Principles and practices of "Principles and practices of crop crop production". production". 1. Field cop production Volume I and II" 1. Field cop production Volume I and II" by Mr. Rajendra Prasad. by Mr. Rajendra Prasad. 2. A text book of Agronomy" by Mr. B. 2. A text book of Agronomy" by Mr. B. Chandrasekaran., et al. Chandrasekaran., et al. 3. Sugarcane crop management practices 3. Sugarcane crop management in India" in India" by S. Ramesh et al. by S. Ramesh et al. has been included

BOARD OF STUDIES

AGRICULTURAL ENGINEERING

Chairman - BoS

Dept. of Agriculture Engineering - ESEC