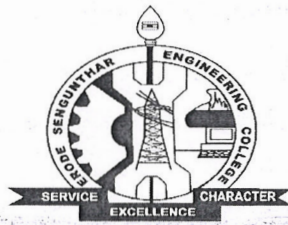


ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638 057



Department of Agricultural Engineering

5th BOARD OF STUDIES MEETING

12th January 2024 @ 11.30 a.m.

ZOOM MEET LINK:

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

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638057

DEPARTMENT OF AGRICULTURAL ENGINEERING

5th BOARD OF STUDIES MEETING (HYBRID MODE)



Meeting Link:

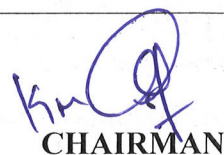
<https://us06web.zoom.us/j/85242690141?pwd=Rc9ldH3oltMH38AaCA8qiOFsmgKACB.1>

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

DEPARTMENT OF AGRICULTURAL ENGINEERING



5th BOARD OF STUDIES MEETING

(HYBRID MODE)

Meeting Link

<https://us06web.zoom.us/j/85242690141?pwd=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, Perundurai - 638 057, Erode.	Chairman
2.	Dr. K. Nalina, Professor, Department of Civil Engineering, PSG College of Technology, Coimbatore.	University Nominee
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
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

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

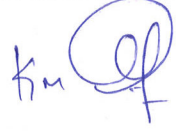

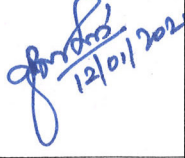

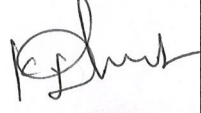
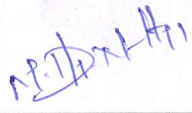

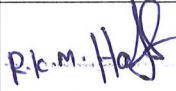
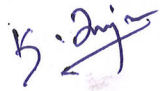

BOS/AGRI 5.1	:	WELCOME ADDRESS AND OPENING REMARKS BY CHAIRMAN, BOARD OF STUDIES.
		The Chairman, Board of Studies for the Department of Agricultural Engineering, welcomed all the members of Board of Studies. He presented the introduction and achievements of the department and briefed the agenda to be 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.
		<p>The Chairman, Board of Studies for the Department of Agricultural Engineering presented the B. Tech. Agricultural Engineering curriculum and the professional elective subjects. The members reviewed the curriculum and professional elective subjects and suggested the following points.</p> <ul style="list-style-type: none"> • Name of course "Surveying for Agricultural Engineering" to be changed as "Surveying and leveling for Agricultural Engineering". • A course on "Soil Mechanics for Agricultural Engineers" to be included in the 3rd Semester. • Shifting the course on "Theory of Machines" from 5th semester to 4th semester. • Shifting the course on "Farm machinery and equipment - I" from 4th semester to 5th semester. • Inclusion of "Farm machinery and equipment - II" course in 6th semester. • Inclusion of a non-credit practical based "Rural

	<p>Agricultural Work Experience" (5 days) course in 7th semester.</p> <ul style="list-style-type: none"> • Change of vertical I title from "Farm power and machinery" to "Farm machinery and energy". • Inclusion of courses <ol style="list-style-type: none"> 1. Special farm equipments 2. Agricultural machineries for precision agriculture 3. Bio-energy resource technology <p>In place of</p> <ol style="list-style-type: none"> 1. Plant protection and harvesting machinery 2. IoT in Agriculture 3. Agri-informatics. <ul style="list-style-type: none"> • In Vertical III, course as "Food quality management" to be replaced in place of course on "Fundamentals of Agricultural Extension Education". • 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 addition of fruits and vegetables crops" should be replaced as "Engineering practices for Horticulture crops" • In Vertical V, "Principles and practices of pest management" course to be renamed as "Integrated Pest and Disease management" • In Vertical VI, "Agro-informatics" to be renamed as "Landscape and urban Horticulture".
BoS /AGRI 5.4	<p>: REVIEW OF SYLLABUS FOR THE 3rd SEMESTER FOR THE B. Tech. AGRICULTURAL ENGINEERING PROGRAMME OFFERED UNDER REGULATION 2023.</p> <p>The Chairman, Board of Studies for the Department of Agricultural Engineering presented the B. Tech. Agricultural Engineering 3rd semester syllabi. The members reviewed the syllabi and suggested the following points.</p>

		<p>1. In " Principles and practices of crop production" course units III & IV have to be merged and unit V on "Crop cultivation practices" has to be included.</p> <p>2. Inclusion of the following practical exercises in crop production and husbandry laboratory.</p> <ol style="list-style-type: none"> 1. Crop classification and its characteristics. 2. Practicing various spray solutions using drone technology. <p>3. Inclusion of following text book for the course on "Principles and practices of crop production".</p> <ol style="list-style-type: none"> 1. Field crop production Volume I and II" by Mr. Rajendra Prasad. 2. A text book of Agronomy" by Mr. B. Chandrasekaran., <i>et al.</i> 3. Sugarcane crop management practices in India" by S. Ramesh <i>et al.</i>
BoS /AGRI 5.5	SUGGESTIONS FOR REVISIONS IN CURRICULUM & SYLLABI NEEDED FOR REGULATIONS 2023.	<p>The members reviewed the curriculum and 3rd semester syllabi and suggested the above points.</p>
BoS /AGRI 5.6	ANY OTHER ITEMS	<p>The following value added courses were suggested by the members for the betterment of the students in placement.</p> <ol style="list-style-type: none"> 1. Solid works advances 2. Auto CAD 3. Testing and evaluation of farm machinery. <p>Members suggested to update the text and reference books with latest edition and include on-line resources.</p> <p>Finally, The Chairman, Board of Studies for the Department of Agricultural Engineering thanked the members in the meeting for their valuable suggestions to improve the curriculum and syllabus for the B. Tech Agricultural Engineering offered under regulation 2023.</p>

ANNEXURE – I

The following members presented in the Board of Studies Meeting

S. No.	Name & Designation	Category	Signature
1.	Dr. K. M. Gopalakrishnan Professor and Head, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman	
2.	Dr. K. Nalinaa Professor Department of Civil Engineering PSG college of Technology Coimbatore - 641 004	University Nominee	
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	
4.	Dr. P. Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Athimugam, Shoolagiri (TK), Krishnagiri – 635 105.		
5.	Mr. S.P.Rajkumar, Managing Director, Mobitech Wireless Solutions Pvt. Ltd., 1/4, Vengamedu, Perundurai, Erode - 638 052.	Representative from Industry/ CorporateSector	
6.	Dr. M. Dhananivetha Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		
7.	Dr.R. M. Muthuraman Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		
8.	Mr. R. K. M. Harishkumar Assistant Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.	Internal-Members	
9.	Mr. A.K.Karthikeyan Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057.		
10.	Mrs.K.Bharathi, Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057		

ANNEXURE – II

DEPARTMENT OF AGRICULTURAL ENGINEERING

Screen Shots of 5th Board of Studies Meeting

Name of the Department : Agricultural Engineering

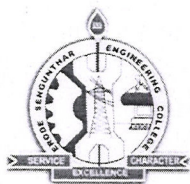
Name of the Board : Agricultural Engineering

Programmes : B. Tech. – Agricultural Engineering

Zoom Link :

<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

PERUNDURAI -638 057, TAMILNADU, INDIA.

DEPARTMENT OF AGRICULTURAL ENGINEERING

5th Board of Studies - Action taken report



S. No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
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 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".	
		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 "Rural Agricultural Work Experience" (5 days) course in 7 th semester.	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 has been included.	
		Suggested to change vertical I title from " Farm power and machinery" to " Farm machinery and energy" and to include following courses. 1. Special farm equipments 2. Agricultural machineries for precision	Title of vertical I " Farm power and machinery" has been changed as "Farm machinery and energy" and the following courses were included. 1. Special farm equipments 2. Agricultural machineries for precision agriculture	

	<p>agriculture</p> <p>3. Bio-energy resource technology</p> <p>In place of</p> <ol style="list-style-type: none"> 1. Plant protection and harvesting machinery 2. IoT in Agriculture. 3. Agri-informatics. 	<p>3. Bio-energy resource technology</p> <p>In place of</p> <ol style="list-style-type: none"> 1. Plant protection and harvesting machinery 2. IoT in Agriculture. 3. Agri-informatics. 	
<p>2</p> <p>Dr.P.Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural & Research, Athimugam, Shoolagiri (TK), Krishnagiri - 635 105.</p>	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".	
	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"	
	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.	

		<p>Suggested to include of the following practical exercises in crop production and husbandry laboratory.</p> <ol style="list-style-type: none"> 1. Crop classification and its characteristics. 2. Practicing various spray solutions using drone technology. 	<p>The following practical exercises in crop production and husbandry laboratory has been included.</p> <ol style="list-style-type: none"> 1. Crop classification and its characteristics. 2. Practicing various spray solutions using drone technology. 	
		<p>Suggested to include the following text book for the course on "Principles and practices of crop production".</p> <ol style="list-style-type: none"> 1. Field cop production Volume I and II" by Mr. Rajendra Prasad. 2. A text book of Agronomy" by Mr. <u>B. Chandrasekaran.</u>, <i>et al.</i> 3. Sugarcane crop management practices in India" by S. Ramesh <i>et al.</i> 	<p>The following text book for the course on "Principles and practices of crop production".</p> <ol style="list-style-type: none"> 1. Field cop production Volume I and II" by Mr. Rajendra Prasad. 2. A text book of Agronomy" by Mr. <u>B. Chandrasekaran.</u>, <i>et al.</i> 3. Sugarcane crop management in India" by S. Ramesh <i>et al.</i> has been included 	


CHAIRMAN

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