

ERODE SENGUNTHAR ENGINEERING COLLEGE

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

PERUNDURAI, ERODE - 638 057



DEPARTMENT OF AGRICULTURAL ENGINEERING
6th BOARD OF STUDIES MEETING

25th July 2024 @ 11.00 a.m.



ERODE SENGUNTHAR ENGINEERING COLLEGE
(An Autonomous Institution –Affiliated to Anna University, Chennai)
PERUNDURAI, ERODE - 638057



DEPARTMENT OF AGRICULTURAL ENGINEERING

6th Board of Studies Meeting

Date & Time: 25.07.2024 & 11.00 AM

AGENDA

The 6th Board of Studies Meeting is convened on 25.07.2024 & 11.00 AM. The agenda for the meeting is as follows.

BoS /AGRI 6.1	:	Welcome to Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Agricultural Engineering.
BoS /AGRI 6.2	:	Confirmation of the Minutes of 05 th Board of Studies Meeting and Action taken report of 05 th Board of Studies meeting.
BoS /AGRI 6.3	:	Review of Curriculum and syllabus for the 3 rd and 4 th semesters for the B. Tech. Agricultural Engineering programme offered under Regulation 2023.
BoS /AGRI 6.4	:	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BoS /AGRI 6.5	:	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



6th BOARD OF STUDIES MEETING

MINUTES OF THE MEETING

The 6th Board of Studies meeting of Department of Agricultural Engineering was held on 25th July 2024 at 11.00 a.m. through Offline 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. V.G.Kalpana, Assistant Professor (Sr.Gr.), Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore - 641014.	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
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 6.1	:	<p>WELCOME TO BOARD OF STUDIES MEMBERS AND OPENING REMARKS BY THE CHAIRMAN, BOARD OF STUDIES, DEPARTMENT OF AGRICULTURAL ENGINEERING.</p> <p>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.</p>
BoS /AGRI 6.2	:	<p>CONFIRMATION OF THE MINUTES OF 05TH BOARD OF STUDIES MEETING AND ACTION TAKEN REPORT OF 05TH BOARD OF STUDIES MEETING.</p> <p>The Chairman, Board of Studies for the Department of Agricultural Engineering presented the 5th Board of Studies Minutes of the Meeting and Action taken Report for B. Tech. Agricultural Engineering.</p>
BoS /AGRI 6.3	:	<p>REVIEW OF CURRICULUM AND SYLLABUS FOR THE 3RD AND 4TH SEMESTERS 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 curriculum, 3rd and 4th semester syllabus. The members reviewed the curriculum and syllabus and suggested the following points.</p> <ul style="list-style-type: none"> • In Profession Elective I, course entitled "Remote sensing and Geographical Information system" has to be replaced as "Farm machinery Design and Production". • In Profession Elective II, course entitled "Agro-meteorology and farm planning" has to be replaced as "Agro-meteorology and Climate Change". • In Profession Elective II, course entitled "Entrepreneurship development and Business Communication" has to be replaced as "Automation in Agriculture". • In Profession Elective III, course entitled "Intellectual Property Rights" has to be replaced "Agricultural Structures

and Environmental Control".

- In Profession Elective IV, course entitled "Agri Business Management" has to be replaced as "Agri Business Management and Entrepreneurship Development".
- In Profession Elective IV, course entitled "Automation in Agriculture has to be replaced as "Intellectual Property Rights".
- In Profession Elective V, course entitled "Climate Change and Adoption" has been replaced as "Principles and practices of Natural Farming".
- In Profession Elective VI, course entitled " Geoinformatics and Nano-technology" has to be replaced "Remote Sensing and Geographical Information System".
- In Profession Elective VI, course entitled "Communication Skills and Personality Development" has to be replaced as "Drone Technology".
- In semester III, unit V title has to be changed as "Crop cultivation practices [Kharif and Rabi]" in the course "Principles and practices of crop production".
- In semester III, in Unit I, the word "Index" has to be removed in the course "Soil mechanics for agricultural Engineering".
- In semester III, in Unit V, "valves" has to be included along with pumps in the course "Fluid Mechanics and Machineries" and in practicals, exercise on "Turbine" has to be removed and replaced with exercise on "Valves".
- In semester III, exercise on GPS and GIS has to be included in the course "Surveying and Levelling laboratory".
- In semester IV, "Irrigation tanks" has been included in unit IV along with "Reservoirs" and "Rain water harvesting - structures - Designs" in the course "Hydrology and Water Resource Engineering".
- In Semester IV, Unit III and V has to be merged and "Soil and water testing" has to be included as Unit IV in the course

		<p>water testing" has to be included as Unit IV in the course "Soil science for Agricultural Engineers".</p> <ul style="list-style-type: none"> In semester IV, Exercise on "Experience on driving tractors and power tillers" has to be included as practical in the course "Tractors and Farm Engines".
BoS /AGRI 6.4	:	SUGGESTIONS FOR REVISIONS IN CURRICULUM & SYLLABI NEEDED FOR REGULATIONS 2023.
		The members reviewed the curriculum, 3 rd and 4 th semester syllabi and suggested the above points.
BoS /AGRI 6.5	:	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"> Solid works advances Auto CAD Testing and evaluation of farm machinery. <ul style="list-style-type: none"> Members suggested to update the text and reference books with latest edition and include on-line resources. <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>




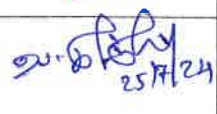




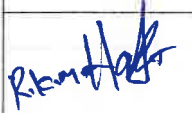
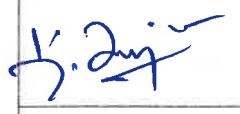


CHAIRMAN

BOARD OF STUDIES - AGRI

Chairman - BoS
Dept. of Agriculture Engineering ESEC

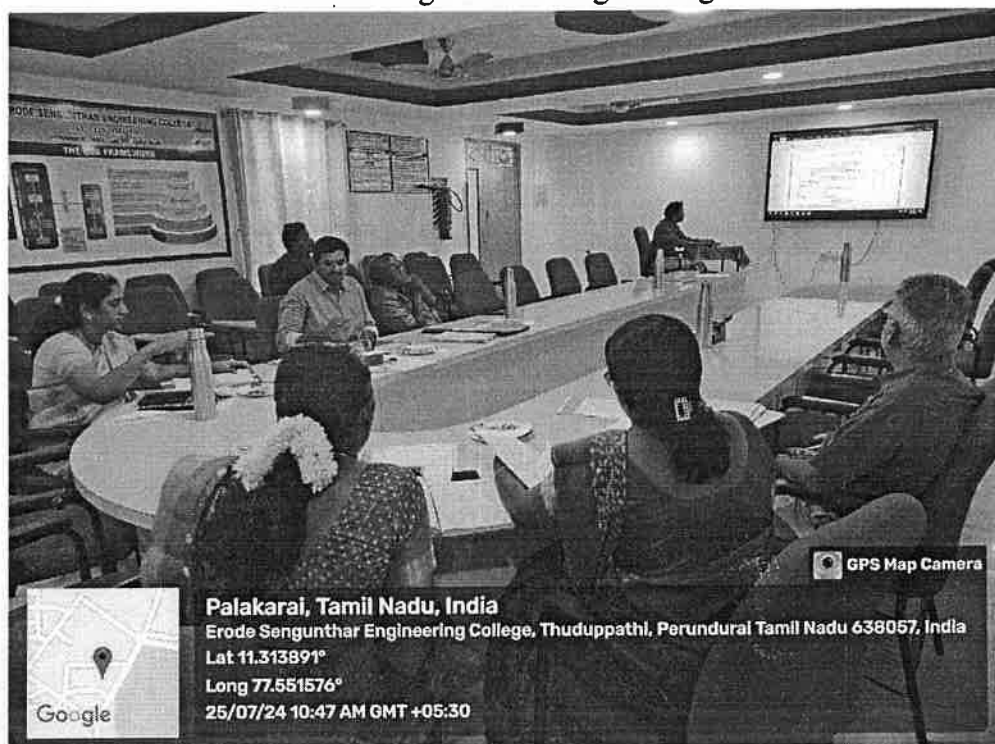
ANNEXURE – I

The following members presented in the Board of Studies Meeting

S. No.	Name & Designation	Category	Signature
1.	Dr. K. M. Gopalakrishnan Professor and Head, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman	
2.	Dr. V.G.Kalpana, Assistant Professor (Sr.Gr.), Department of Civil Engineering, Coimbatore Institute of Technology, Coimbatore - 641014.	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.K.Dhevendhiran, HR Manager, Mobitech Wireless Solutions Pvt. Ltd., 1/4, Vengamedu, Perundurai, Erode - 638 052.	Representative from Industry/ CorporateSector	
6.	Dr.N.Sekaran Associate Professor, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai.	Internal Members	
7.	Dr. M. Dhananivetha Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		
8.	Dr.R. M. Muthuraman Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		
9.	Mr. R. K. M. Harishkumar Assistant Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.		
10.	Mr. A.K.Karthikeyan Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057.		
11.	Mrs.K.Bharathi, Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057		

ANNEXURE – II
DEPARTMENT OF AGRICULTURAL ENGINEERING
Screen Shots of 6th Board of Studies Meeting

Name of the Department : Agricultural Engineering
Name of the Board : Agricultural Engineering
Programme : B. Tech. – Agricultural Engineering





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

6th 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 replace, "Farm machinery Design and Production" in Profession Elective I as "Remote sensing and Geographical Information system".	In Profession Elective I, course entitled "Remote sensing and Geographical Information system" has been replaced as "Farm machinery Design and Production".	
		Suggested to replace, the course entitled "Entrepreneurship development and Business Communication" as "Automation in Agriculture" in Profession Elective II.	In Profession Elective II, course entitled "Entrepreneurship development and Business Communication" has been replaced as "Automation in Agriculture".	
		Suggested to replace, the course entitled "Intellectual Property Rights" to "Agricultural Structures and Environmental Control" in Profession Elective III.	In Profession Elective III, course entitled "Intellectual Property Rights" has been replaced as "Agricultural Structures and Environmental Control".	
		Suggested to replace, the course entitled "Agri Business Management" to "Agri Business Management and Entrepreneurship Development" in Profession Elective IV.	In Profession Elective IV, course entitled "Agri Business Management" has been replaced as "Agri Business Management and Entrepreneurship Development".	
		Suggested to replace, the course entitled "Automation in Agriculture as "Intellectual Property Rights" in Profession Elective IV.	In Profession Elective IV, course entitled "Automation in Agriculture has been replaced as "Intellectual Property Rights".	
		Suggested to replace, the course entitled "	In Profession Elective VI, course	

		Geoinformatics and Nano-technology has to be replaced "Remote Sensing and Geographical Information System" in Profession Elective VI.	entitled " Geoinformatics and Nano-technology" has been replaced as "Remote Sensing and Geographical Information System".	
		Suggested to replace, the course entitled "Communication Skills and Personality Development" to "Drone Technology" in Profession Elective VI,.	In Profession Elective VI, course entitled "Communication Skills and Personality Development" has been replaced as "Drone Technology".	
		Suggested in unit I of semester III, the word "Index" has to be removed in the course "Soil mechanics for agricultural Engineering".	In semester III, in Unit I, the word "Index" has been removed in the course "Soil mechanics for agricultural Engineering".	
		Suggested, in unit V of semester III, "valves" has to be included along with pumps in the course "Fluid Mechanics and Machineries" and in practicals, exercise on "Turbine" has to be removed and replaced with exercise on "Valves".	In semester III, in Unit V, "valves" has to be included along with pumps in the course "Fluid Mechanics and Machineries" and in practicals, exercise on "Turbine" has been removed and replaced with exercise on "Valves".	
		Suggested in semester III, exercise on GPS and GIS has to be included in the course "Surveying and Levelling laboratory".	In semester III, exercise on GPS and GIS has been included in the course "Surveying and Levelling laboratory".	
		Suggested in semester IV, "Irrigation tanks" has been included in unit IV along with "Reservoirs" and "Rain water harvesting - structures - Designs" in the course "Hydrology and Water Resource Engineering".	In semester IV, "Irrigation tanks" has been included in unit IV along with "Reservoirs" and "Rain water harvesting - structures - Designs" in the course "Hydrology and Water Resource Engineering".	
		Suggested in semester IV, Exercise on "Experience on driving tractors and power tillers" has to be included as practical in the course "Tractors and Farm Engines".	In semester IV, Exercise on "Experience on driving tractors and power tillers" has been included as practical in the course "Tractors and Farm Engines".	
2.	Dr.P.Lakshmanakumar, Associate Professor, Adhiyamaan College of Agricultural &	Suggested to replace, the course entitled "Agro-meteorology and farm planning" as "Agro-meteorology and Climate	In Profession Elective II, course entitled "Agro-meteorology and farm planning" has been replaced as "Agro-	

Research , Athimugam, Shoolagiri (TK), Krishnagiri - 635 105.	Change" in Profession Elective II.	meteorology and Climate Change".	
	Suggested in semester IV, Unit III and V has to be merged and "Soil and water testing" has to be included as Unit IV in the course "Soil science for Agricultural Engineers".	In Semester IV, Unit III and V has been merged and "Soil and water testing" has to be included as Unit IV in the course "Soil science for Agricultural Engineers".	
	Suggested to replace, in unit V of semester III, title has to be changed as "Crop cultivation practices [Kharif and Rabi]" in the course "Principles and practices of crop production".	In semester III, unit V title has been changed as "Crop cultivation practices [Kharif and Rabi]" in the course "Principles and practices of crop production".	
	Suggested to replace, the course entitled "Climate Change and Adoption" to "Principles and practices of Natural Farming" in Profession Elective V.	In Profession Elective V, course entitled "Climate Change and Adoption" has been replaced as "Principles and practices of Natural Farming".	


CHAIRMAN

BOARD OF STUDIES

AGRI ENGINEERING

Chairman - BoS
Dept. of Agriculture Engineering - ESEC