



ERODE SENGUNTHAR ENGINEERING COLLEGE

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



PERUNDURAI, ERODE – 638 057



Department of Agricultural Engineering 4th BOARD OF STUDIES MEETING

17th JUNE, 2023 @ 10.30 am

ZOOM ONLINE MEET

<https://us06web.zoom.us/j/88430891034?pwd=V202d1VpY2xkNk84QnJnL1lXbHVmUT09>



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

4th Board of Studies Meeting – AGENDA



ITEM	PARTICULARS
BOS / AGRI 4.1	Welcoming Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Agricultural Engineering.
BOS / AGRI 4.2	Confirmation of the Minutes of 03 rd Board of Studies Meeting and Action taken report of 03 rd Board of Studies meeting.
BOS / AGRI 4.3	Approval of Curriculum for the B.Tech. Agricultural Engineering programme offered under Regulations 2023.
BOS / AGRI 4.4	Review of syllabus belongs to first and second semester for the B.Tech. Agricultural Engineering programme offered under Regulations 2023.
BOS / AGRI 4.5	Review of vertical courses identified for the B.Tech. Agricultural Engineering programme offered under Regulation 2023.
BOS / AGRI 4.6	Review of Tamil courses for the B.Tech. Agricultural Engineering programme students admitted in 2022-23 and 2023-24 as per Anna University direction.
BOS / AGRI 4.7	Review of syllabi of courses offered to other departments
BOS / AGRI 4.8	Suggestions for Revisions in curriculum & syllabi needed for Regulations 2023.
BOS / AGRI 4.9	Any other items
BOS / AGRI 4.10	Vote of Thanks

The following members were present in the Board of Studies Meeting

S. No.	Name & Designation	Category
1.	Dr. K. M. Gopalakrishnan Professor and Head, Department of Agricultural Engineering, Erode Sengunthar Engineering College, Perundurai.	Chairman
2.	Dr. K. Nalina 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. N. Sekaran Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.	Internal Members
7.	Dr. M. Dhananivetha 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.	
9.	Mr. A. Prabhakaran Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057.	

BOS/AGRI/4.1	:	<p>Welcoming Board of Studies members and opening remarks by the Chairman, Board of Studies, Department of Agricultural Engineering.</p> <p>Discussion</p> <p>The Chairman, Board of Studies welcomed all the members of the meeting for discussing B.Tech. - Agricultural 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.</p>
BOS/AGRI/4.2	:	<p>Confirmation of the Minutes of 03rd Board of Studies Meeting and Action taken report of 03rd Board of Studies meeting.</p> <p>Discussion</p> <p>The Chairman presented the Minutes of 03rd Board of Studies Meeting which was held on 23.07.2022 and action taken report of the same.</p> <p>Resolution</p> <p>It is resolved to recommend the Minutes of 03rd Board of Studies Meeting and action taken report of the same is submitted to the Academic Council for approval.</p>
BOS/AGRI/4.3	:	<p>Approval of Curriculum for the B.Tech. Agricultural Engineering programme offered under Regulations 2023.</p> <p>Discussion</p> <p>The Chairman presented the Curriculum for B.Tech. Agricultural Engineering of all semesters and syllabus of I & II semesters under the Regulations 2023.</p> <p>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.</p> <p>Resolution</p> <p>The curriculum for the B.Tech. Agricultural Engineering programme under -Regulations 2023 is recommended and the same is submitted to the Academic Council for approval.</p>
BOS/AGRI/4.4	:	<p>Review of syllabus belongs to first and second semester for the B.Tech.</p>

	<p>Agricultural Engineering programme offered under Regulations 2023.</p> <p>Discussion</p> <p>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.</p> <p>Dr. T. Senthilkumar suggested to include Agriculture related ancient literatures in Tamil Subject while teaching.</p> <p>Dr. T. Senthilkumar suggested to concentrate on Application of electronic instruments on agriculture applications like soil moisture estimation in the course Basics of Electrical and Electrical Engineering.</p> <p>Dr. T. Senthilkumar suggested to check the overlapping of unit 4 & 5 in the course Application of Physics to Agricultural Engineers and to relate the course with Agriculture and also recommended to add reference books for Food Irradiation can be included.</p> <p>Dr. P. Lakshmanakumar suggested to add ' Fundamentals of Plant Physiology ' By VK. Jain as Reference book in the course Application of Physics to Agricultural Engineers.</p> <p>Dr. T. Senthilkumar suggested to add Solid works software in the course ' CAD for Agricultural Engineers '.</p> <p>Resolution</p> <p>It is resolved to recommend the syllabus for the B.Tech. Agricultural Engineering programme under Regulations 2023 and the same is submitted to the Academic Council for approval.</p>
BOS/AGRI/4.5	<p>: Confirmation and approvals of verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E. Agricultural 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).</p> <p>Discussion</p>

		<p>The chairman presented the verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Agricultural Engineering in Regulations 2019 for students admitted in the Academic Year 2021-22 onwards as per the direction of Anna University. The BoS members approved the same.</p> <p>Resolution</p> <p>It is resolved verticals for awarding Honours, Honours with Specialization and Minor Degree - B.E Agricultural 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.</p>
BOS/AGRI/4.6	:	<p>Any other items</p> <p>Common points suggested by the members as concluding remark</p> <ul style="list-style-type: none"> • Suggested to update the text and reference books with latest edition and include on-line resources. The chairman of Board of Studies agreed and assured to incorporate the changes suggested by the members wherever possible. • The chairman thanked all the members for their valuable suggestions and coordination.

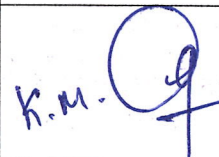
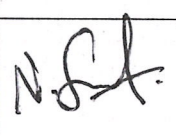
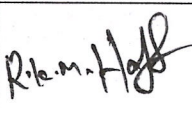

 K. N. Q.
 Chairman

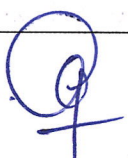
BoS - Agri.

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. K. Nalina Professor Department of Civil Engineering PSG college of Technology Coimbatore - 641 004	University Nominee	ONLINE MODE
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/ CorporateSector	
6.	Dr. N. Sekaran Associate Professor / Agri. Department of Agricultural Engineering ESEC, Erode - 638 057.	Internal Members	
7.	Dr. M. Dhananivetha 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.		
9.	Mr. A. Prabhakaran Assistant Professor / Agri. Department of Agricultural Engineering, ESEC, Erode - 638 057.		

K.M. 

Chairman - BoS
Dept. of Agriculture Engineering - ESEC

ANNEXURE – II

DEPARTMENT OF AGRICULTURAL ENGINEERING

Screen Shots of 06th Board of Studies Meeting

Name of the Department : Agricultural Engineering
 Name of the Board : Agricultural Engineering
 Programmes : B.Tech. – Agricultural Engineering
 Date, Time & Mode : 17.06.2023 - 10.30 AM & ONLINE
 Zoom Link : <https://us06web.zoom.us/j/88430891034?pwd=V202d1VpY2xkNk84QnJnL1lXbHVmUT09>

EASEB2 CAD FOR AGRICULTURAL ENGINEERS

Course Objectives (o): The purpose of learning this course is to:

- Draft the agricultural engineering related mechanisms and structures manually.
- Bring the new and revised by computer aided methods.
- Bring the changes in current agricultural mechanisms.

Course Outcomes (o): At the end of this course, learners will be able to:

- understand the plan and layout of underground pipes, post farminging with and check dams.
- model and draw the components using computer aided methods.
- change their layout and adding minor changes to increase the efficiency of the implements and structures.

Ex. No. Name of Experiments

1. Introduction to modelling software: Modelling, sketching, dimensioning and Modelling Tools and Creating simple 2D models by using any CAD Modelling Software.
2. Create a orthographic, series of machine components from descriptive component drawing.
3. Create a two dimensional sketch diagrams of simple machine components.
4. Create a three dimensional assembly model of bearing from detailed orthographic drawings.
5. Create a three dimensional assembly model of bearing from detailed orthographic drawings.
6. Design and Drawing of Underground pipeline system.
7. Design and Drawing of Check dam and Mould board plough.
8. Design and Drawing of Disk plough and tillage plant.
9. Design and Drawing of Post Harvest technology units (Dryers and winnowers).

EASEB2 CAD FOR AGRICULTURAL ENGINEERS

SOFT SKILLS - B

Course Objectives (o): The purpose of learning this course is to:

- To train the students on Group Discussion, Debates and Quizzes.
- To develop the students on Interview Skills.
- To develop the students on Presentation Skills.
- To develop the students on Business Etiquette.
- To develop the students on Ethics and Values.

Course Outcomes (o): At the end of this course, learners will be able to:

- Participate in Group Discussion with Confidence by knowing the tips and tricks.
- Attend the interview with creative attitude by having Mock Interviews.
- Present their work by following their Presentation Skills.
- Apply their work in ethical gathering and knowing the Ethics.
- Apply their work in ethical gathering and knowing the Ethics.

UNIT 1: GROUP DISCUSSION

- Group Discussion: Understanding the objective and skills related to a GD - General types of GDs - Rules in a GD - Do's & Don'ts - Mock GD & Feedback.

UNIT 2: INTERVIEW SKILLS

- Interviewing Skills: Self preparation checklist - Drawing up: Do's & Don'ts - Mock interview & Feedback.

UNIT 3: PRESENTATION SKILLS

- Presentation Skills: Single and multiple information presentation - structure of topic, content, style - Preparing the audience - Time management - Mock Presentations & Feedback.

UNIT 4: BUSINESS ETIQUETTE

- Business Etiquette: Understanding the importance of Business Etiquette - Do's & Don'ts in a formal setting - Mock scenarios.

UNIT 5: ETHICS

- Ethics: Importance of Ethics and Values - Character and Virtues, Moral - Decisions from new realities.

1. Lecture 1 Theoretical 1 Practical 0 Credits Total 50 Periods

K.M.

Chairman - BoS
 Dept. of Agriculture Engineering - ESEC



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DEPARTMENT OF AGRICULTURAL ENGINEERING

4th Board of Studies-Action taken report

Sl.No.	Name of the Expert	Suggestion Given	Action Taken	Remarks
1	Dr. K. Nalina Professor / Civil / PSG / Coimbatore	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.	
2	Dr. T. Senthilkumar Principal Scientist (FMP) & In-charge / CIAE / Coimbatore	Suggested to include Agriculture related ancient literatures in Tamil Subject	Agriculture related ancient literatures are included.	
3	Dr. T. Senthilkumar Principal Scientist (FMP) & In-charge / CIAE / Coimbatore	Suggested to concentrate on Application of electronic instruments on agriculture applications like soil moisture estimation in the course Basics of Electrical and Electrical Engineering	Application of electronic instruments on agriculture applications like soil moisture estimation are included	
4	Dr. T. Senthilkumar Principal Scientist (FMP) & In-charge / CIAE / Coimbatore	Suggested to add Solid works software in the course ' CAD for Agricultural Engineers '.	Solid works softwares are included	
5	Dr. P. Lakshmanakumar Assoc. Prof. / ACAR / Krishnagiri	Suggested to add ' Fundamentals of Plant Physiology ' By VK. Jain as Reference book in the course Application of Physics to Agricultural Engineers.	Fundamentals of Plant Physiology ' By VK. Jain as Reference book was included.	


CHAIRMAN

BOARD OF STUDIES

AGRICULTURAL ENGINEERING

Chairman - Bos

Dept. of Agriculture Engineering - ESEG