



**SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY  
(Autonomous)**

**Approved by AICTE, Affiliated to Anna University,  
Accredited by NAAC, NBA (ECE/CSE/MECH) and ISO 9001:2015 Certified  
Pullipalayam, Sankari, Salem (Dt.)**

**DEPARTMENT OF AGRICULTURAL ENGINEERING**

**FIRST BOARD OF STUDIES MEETING**

**MINUTES OF MEETING**

Meeting No. : SSCET/AGRI/01  
Date : 27.10.2023  
Time : 10.30 am  
Venue : Board Room, E- BLOCK

The first Board of Studies Meeting of Agricultural Engineering department has been convened to deliberate the curriculum and passing the same to the Academic Council.

The Chairperson welcomed the members and presented the following points:

- Vision and Mission of the Institution and Department.
- Program Educational Objectives (PEO) and Program Specific Outcomes (PSO) of the department.
- Curriculum of B.Tech- Agricultural Engineering programme under Regulation 2023 for the students admitted from the academic year 2023-24 onwards.

The members had thorough discussion and resolved to pass the curriculum to the Academic Council.

The following points were discussed in the meeting:

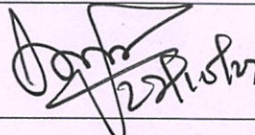
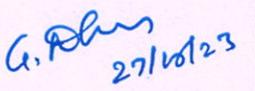
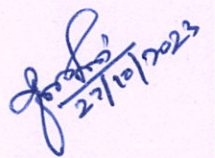
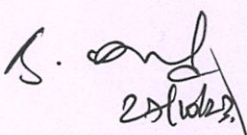
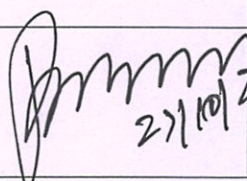
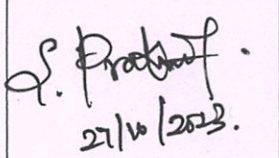
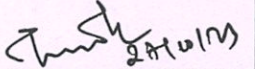
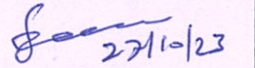
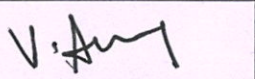

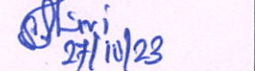
- The team suggested to include agricultural literature in the Heritage of Tamil course syllabus to focus in specific with ITKs.
- Insist to swap engineering mechanics course from II Semester to III semester and Principles of Agronomy from III semester to II semester.
- Suggested to include irrigation structures and advanced irrigation methods in the crop production laboratory.
- Suggested to train the students for manual farming operations like land shaping, bund forming, weeding, irrigation, special operations *etc.*
- Insist to change the course name from Soil Science to Soil Mechanics.
- Insist to change the laboratory name to Computer Aided Design Laboratory.



- Suggested to add lectures on IRR CAD in the CAD course.
- Insisted to include Tractors & Farm Engine and Farm machinery courses separately for their effectiveness in practical implements.
- Suggested to include the Farm Machinery - I & II courses if possible.
- Suggested to change the course title Drawing of Farm Structures as Design of Farm Machinery and Structures Laboratory in the 5<sup>th</sup> semester.
- Suggested to increasing the time and the duration of summer training from 2 weeks to 3 weeks and in Internship from 4 weeks to 6 weeks. (Because it is needed to gain industry knowledge)
- Suggested in Farm Machinery Lab to offer tractor driving as mandatory experiment in practical.
- Suggested to include AI and robotics, Automation and Landscape Architecture in professional elective verticals.
- Suggested to include AI and robotics in Agricultural Engineering as separate course in Professional Core.
- Insist to swap the Landscape Architecture course to Water Management verticals.
- Suggested to include RAW (Rural Agricultural Work Experience) in the curriculum either as value-added course or as an assessment component.
- Suggested to include Organic agriculture, Mushroom cultivation, Urban Horticulture, Honey Bee Keeping, Agripreneurship etc., in the open elective for other engineering streams.
- Suggested to rename Energy Technology into Renewable Energy Technology in an open elective course.
- Suggested to add Agri Clinic course in Vertical IV.
- Insist on including Cut modeling, engine components and dismantling, appraisal and maintenance in Farm engines Laboratory.
- Suggested to involve industry experts and the Research Institute (scientists) as co-guides for guiding the mini-project and project work in the sixth and eighth semesters.



The following members were present during the meeting.

S.No.	Position	Name & Designation	Signature
1	Chairman	<b>Prof.K.Mohan</b> <b>Head of the Department</b> Department of Agriculture Engineering	 27/10/23
2	University Nominee	<b>Dr.G.Dhamodhara Kannan</b> <b>Associate Professor</b> Department of Civil Engineering, Government College of Engineering, Thanjavur	 27/10/23
3	Two subject experts from outside the Parent University	<b>Dr.T. Senthilkumar, M.E (Ag.), Ph.D, FIE.,</b> <b>Principal Scientist (Farm Machinery)</b> Regional Centre ICAR-Central Institute of Agricultural Engineering Coimbatore	 27/10/2023
		<b>Dr.B. Soundharajan</b> <b>Associate Professor</b> Department of Civil Engineering, Amrita School for Sustainable Development, Amrita Vishwa Vidyapeetham Coimbatore	 27/10/23
4	Expert from Industry	<b>Dr.R.Murugesan B.E, M.B.A., Ph.D.,</b> <b>Managing Director</b> DAMs Agri Private Limited, Pudhupalayam, Coimbatore	 27/10/23
5	Alumni	<b>Mr.S. Praveen Kumar</b> <b>Senior Engineer</b> Bhavani Sagar Division Rivulis Irrigation India Private Limited Coimbatore	 27/10/2023.
6	Faculty Members	Dr.G. Vijayakumar-Professor	 27/10/23
		Dr.G. Chandrasekaran-Professor	 27/10/23
		Dr.V.Abarna- Associate Professor	 V. Abarna
		Dr.V.S.Indhumathi-Associate Professor	 V.S. Indhumathi
		Dr.S.Sapthagiri-Assistant Professor	 27/10/23



	Mrs.S.Udhaya-Assistant Professor	<i>S. Udhaya</i>
	Mr.S.Pramothkumar- Assistant Professor	<i>S. Pramothkumar</i> 21/10/23
	Mr.V.Gnanaprakash- Assistant Professor	<i>V. Gnanaprakash</i>
	Mr.M.Dineshkumar- Assistant Professor	<i>M. Dineshkumar</i>
	Mrs.K.Lavanya- Assistant Professor	<i>K. Lavanya</i> 21/10/23
	Ms.V.Manoja- Assistant Professor	<i>V. Manoja</i>
	Mrs.N.G.Renuka- Assistant Professor	<i>N. G. Renuka</i>

*[Signature]*  
Chairman – Board of Studies

**Head of the Department**  
Department of Agriculture Engineering  
Sri Shanmugha College of Engineering and Technology  
Pullipalayam, Morur (PO) - 637 304.  
Sankari (Tk), Salem (Dt), Tamil Nadu.

*G. M. Senthil*

Principal

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## DEPARTMENT OF AGRICULTURAL ENGINEERING

### ACTION TAKEN REPORT OF THE MINUTES OF MEETING

Meeting No : SSCET/AGRI/BoS/1

Date : 27.10.2023

Time : 10.30 am

#### Agenda:

1. To discuss and pass the curriculum of the B.Tech. Agricultural Engineering Programme for the students admitted from 2023-24 academic year onwards.
2. To discuss and pass the syllabi of the courses of I year B.Tech. Agricultural Engineering Programme for the students admitted from 2023-24 academic year onwards
3. To discuss and pass the curriculum and syllabi of the courses of III, IV, V, VI, VII and VIII semesters of B.Tech. Agricultural Engineering Programme.
4. Any other Matters.

#### Resolutions

1. Resolved that the following recommendations may be passed to the Academic Council for the curriculum and syllabi of B.Tech Agricultural Engineering programme with the following changes.

#### Semester- II

RECOMMENDATION	RESOLUTION
<b>B.AG.1.1</b> Dr.G.Dhamodhara Kannan suggested to swap Engineering Mechanics from II Semester to III Semester and Principles of Agronomy and Crop Production from III Semester to II Semester.	<b>B.AG.R 1.1</b> Swapped the course <b>Engineering Mechanics (23ME303)</b> from II semester to III semester and <b>Principles of Agronomy and Crop Production (23AG401)</b> from III semester to II semester.
<b>B.AG.1.2</b> Dr.R.Murugesan is suggested to include irrigation structures, advanced irrigation methods, manual farming operations like land shaping, bund forming, weeding and special operations, etc. in the principles of Agronomy and crop production laboratory.	<b>B.AG.R 1.2</b> Suggested topics during the meeting were included in the experimental part of the course <b>Principles of Agronomy and Crop Production (23AG401)</b> .



**Semester- III**

RECOMMENDATION	RESOLUTION
<b>B.AG.1.3 Dr.T. Senthilkumar</b> suggested to change the course name from soil science to soil mechanics.	<b>B.AG.R 1.3</b> The Soil Science course is renamed as <b>Soil Mechanics (23AG404)</b> in the revised version of the curriculum.

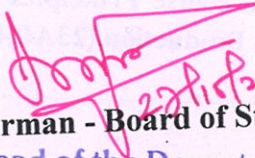
**Semester- V**

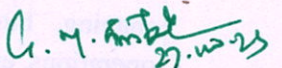
RECOMMENDATION	RESOLUTION
<b>B.AG.1.4. Dr. T. Senthilkumar</b> suggested to change the course title from Drawing of Farm Structures to Design of Farm Machinery and Structures Laboratory in the 5th semester.	<b>B.AG.R 1.4.</b> The Drawing of Farm Structures course is renamed as <b>Design of Farm Machinery and Structures Laboratory (23AG412).</b>
<b>B.AG.1.5 Dr.R.Murugesan</b> suggested to include RAW (Rural Agricultural Work Experience) in the curriculum either as a value-added course or Mandatory Course.	<b>B.AG.R 1.5</b> In the Fifth Semester, <b>RAWE (23MC805)</b> was included as a mandatory course in the curriculum.

**Electives**

RECOMMENDATION	RESOLUTION
<b>B.AG.1.6 Dr.B.Soundharajan</b> suggested to include AI and robotics in agricultural engineering as separate courses in the Professional Core.	<b>B.AG.R 1.6</b> The <b>Automation in Agriculture (23AG546)</b> course was added in the Vertical-IV as a professional elective.
<b>B.AG.1.7 Dr. T. Senthilkumar</b> suggested to add the Agri Clinic course in Vertical-IV.	<b>B.AG.R 1.7 Agri Clinic (23AG547)</b> course was added in the Vertical-IV as a professional elective.
<b>B.AG.1.9. Dr. T. Senthilkumar</b> suggested to include organic agriculture and urban horticulture in the open elective for other engineering streams.	<b>B.AG.R 1.9.</b> The following course are included as open elective courses: (i) <b>Organic Farming(23AG602)</b> (ii) <b>Urban horticulture(23AG604)</b>
<b>B.AG.1.10 Dr.T. Senthilkumar</b> suggested to rename Energy Technology into Renewable Energy Technology in an open elective course.	<b>B.AG.R 1.10</b> Energy Technology course is renamed as <b>Renewable Energy Technology (23AG603).</b>

2. Resolved that the curriculum and syllabus for III, IV, V, VI, VII and VIII be followed as per the existing regulation

  
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