

# **SETHU INSTITUTE OF TECHNOLOGY**

*(An Autonomous Institution)*



*Estd : 1995*

## **MINUTES OF THE MEETING Board of Studies of Agriculture Engineering**

Pulloor, Kariapatti – 626 115, Virudhunagar District

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# SETHU INSTITUTE OF TECHNOLOGY

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

PULLOOR, KARIAPATTI- 626 115

## DEPARTMENT OF AGRICULTURE ENGINEERING

### MINUTES OF 5<sup>th</sup> BOARD OF STUDIES MEETING HELD ON 12.09.2020

Dr. V. Dharmaraj, welcomed the members and presented the following,

- Proposed curriculum & syllabus for B.E. Agriculture Engineering program under Regulations 2019
- The syllabus for the III and IV Semester courses under Regulation 2019
- Department Vision, Mission, PEO's and PO's

#### 1. B.E. Agriculture Engineering Program

The members discussed the syllabus for B.E. Agriculture Engineering to be followed for the students admitted from 2019 - 20 academic year onwards under autonomous regulation 2019 and offered useful suggestions.

**Based on the suggestions given by the members, the following resolutions are made,**

- 1.1. It is resolved to introduce a laboratory exercise to work out the fertilizer requirement for different crops and measurement in the course 19UAG308 Agricultural Metrology and Crop Husbandry Laboratory in Semester III
- 1.2. It is resolved to add Principal Moment of Inertia in Unit III for the course 19UAG303 Fundamentals of Engineering Mechanics in Semester III
- 1.3. It is resolved to include Mechanism for controls like flywheel and governor in Unit IV for the course 19UAG304 Fundamentals of Theory of Machines in Semester III
- 1.4. It is resolved to rename 19UAG304 Fluid Mechanics and Hydraulics in Semester III as 19UAG304 Fluid Mechanics and Open Channel Hydraulics
- 1.5. It is resolved to rename 19UAG408 Surveying laboratory in Semester IV as 19UAG408 Surveying and Leveling laboratory Fluid Mechanics and Open Channel Hydraulics
- 1.6. It is resolved to rename 19UAG912 Heat and Mass Transfer in Professional Electives as 19UAG912 Fundamentals of Heat and Mass Transfer

- 1.7. It is resolved to introduce the following new core courses
- i. 19UAG307 Seminar
  - ii. 19UIT426 Object oriented Programing in Python
  - iii. 19UIT429 Object oriented Programing Laboratory
  - iv. 19UAG703 Introduction to Green Energy
  - v. 19UAG707 Summer Internship
  - vi. 19UAG709 Green Energy Laboratory
- 1.8. It is resolved to introduce the following One credit courses
- i. 19UAG863 Organic Farming
  - ii. 19UAG866 Entrepreneurship in Agriculture
  - iii. 16UAG868 Seed Technology
  - iv. 19UAG869 Design of Millets Processing Equipment
- 1.9 It is resolved to introduce the following Mandatory courses
- i. 19UGM322 Biology for Engineering Applications
  - ii. 19UGM431 Gender Equality
  - iii. 19UGM636 Indian Constitution and Essence of Indian Traditional Knowledge in Agriculture
  - iv. 19UGM731 Professional Ethics and Human values

The members of Board of Studies also suggested that the following experiments may be added in the relevant laboratory courses

- To include standard author books latest edition for each subjects.

The Board of Studies of Department of Agriculture Engineering recommends the III and IV Semester syllabus of B.E. Agriculture Engineering to be followed for the students admitted from 2019-20 academic year onwards under autonomous Regulations 2019 with the above modifications for approval in Academic Council.

Dr. V. Dharmaraj thanked the members for their contribution and suggestions in modification of the syllabus for B.E. Agriculture Engineering program under Autonomous Regulations.



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(An Autonomous Institution I Accredited with 'A' Grade by NAAC)

## DEPARTMENT OF AGRICULTURE ENGINEERING

### ACTION TAKEN REPORT OF 5<sup>th</sup> BOS MEETING

Suggestion/Recommendation	Action Taken
<ul style="list-style-type: none"> <li>• Anna University Nominee Dr. R. Saravanan has suggested to introduce a laboratory exercise to work out the fertilizer requirement for different crops and measurement</li> <li>• Also he has suggested to add Principal Moment of Inertia topic in Engineering Mechanics course.</li> </ul>	<ul style="list-style-type: none"> <li>• The suggested exercise added in the course 19UAG308 Agricultural Metrology and Crop Husbandry Laboratory in Semester III</li> <li>• The suggested topic added in the course 19UAG303 Fundamentals of Engineering Mechanics in Semester III.</li> </ul>
<ul style="list-style-type: none"> <li>• Academic expert Dr.P.Dhananchezhian has suggested to include topic on control mechanism for flywheel and Governor in Theory of Machines course</li> <li>• He also suggested to rename Fluid Mechanics and Hydraulics</li> </ul>	<ul style="list-style-type: none"> <li>• The suggested topic included in the course 19UAG304 Fundamentals of Theory of Machines in Semester III</li> <li>• The suggested name accepted and renamed as 19UAG304 Fluid Mechanics and Open Channel Hydraulics in Semester III</li> </ul>
<ul style="list-style-type: none"> <li>• Academic expert Mr. Saravanan has suggested to introduce a new core course in Python programming.</li> </ul>	<ul style="list-style-type: none"> <li>• The suggested course introduced as 19UIT 427 Object oriented Programing in Python in Semester IV</li> </ul>
<ul style="list-style-type: none"> <li>• Industry Expert Er.R.Ravichandiran has suggested to introduce a new laboratory course in irrigation</li> </ul>	<ul style="list-style-type: none"> <li>• The suggested laboratory course introduced as 19UAG508 Irrigation and Drainage laboratory in Semester V</li> </ul>

<ul style="list-style-type: none"> <li>• Peer Academician suggested to introduce the following course in Regulations 2019             <ul style="list-style-type: none"> <li>• Organic Farming</li> <li>• Entrepreneurship in Agriculture</li> <li>• Seed Technology</li> <li>• Design of Millets Processing Equipment</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• The suggested new courses were included in as Professional Electives and Industry designed course in Regulations 2019.</li> </ul>
<ul style="list-style-type: none"> <li>• It is proposed to include the following courses in R2019             <ul style="list-style-type: none"> <li>• Biology for Engineering Applications</li> <li>• Gender Equality</li> <li>• Indian Constitution and Essence of Indian Traditional Knowledge in Agriculture</li> <li>• Professional Ethics and Human values</li> <li>• Seminar</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• The proposed courses were accepted and included as Mandatory courses in Regulations 2019</li> </ul>

  
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