



SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
Approved by AICTE, Affiliated to Anna University,
Accredited by NAAC, NBA (ECE/MECH) and ISO 9001:2015 Certified
Pullipalayam, Sankari, Salem (Dt.)

DEPARTMENT OF AGRICULTURAL ENGINEERING
SECOND BOARD OF STUDIES MEETING

AGENDA

Venue : Engineering Board Room
Date : 21.06.2024
Time : 11.00 am

1. To discuss and pass the syllabi of Second year courses of B.Tech-Agricultural Engineering Programme for the students admitted from the academic year 2023-24 onwards.
2. To discuss and pass the Syllabi of one credit courses offered to B.Tech-Agricultural Engineering Programme for the students admitted from the academic year 2023-24 onwards.
3. Any other Matters.

Head of the Department

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

Principal

PRINCIPAL
SRI SHANMUGHA
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DEPARTMENT OF AGRICULTURAL ENGINEERING

SECOND BOARD OF STUDIES MEETING

MINUTES OF MEETING

Meeting No. : SSCET/AGRI/02

Date : 21.06.2024

Time : 11.00 am

Venue : Board Room, E-BLOCK

The second Board of Studies Meeting of Agricultural Engineering department has been convened to deliberate the Second-year syllabus under Regulation 2023 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.
- Syllabus for IIIrd and IVth semester 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:

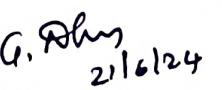
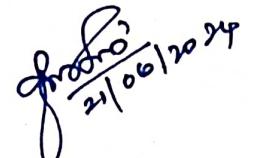
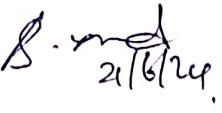
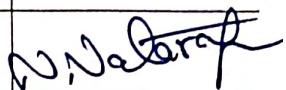
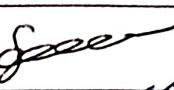
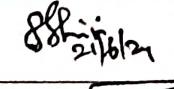
- Dr.T.Senthikumar suggested to add latest text and reference books for all courses

- Dr.G.Dhamodhara Kannan suggested to merge unit I and II in surveying and Levelling course in III semester.
- Dr.G.Dhamodhara Kannan suggested to add an experiment on determination of macro-Nutrient Analysis of soil in soil Mechanics course in III semester.
- Dr.B.Soundharajan recommended to add topic Evapotranspiration on Unit I in hydrology and water recourses course in IV semester.
- Dr.B.Soundharajan insisted to remove IUH topic Unit III and Rule curve topic Unit IV in Hydrology and Water Recourses course in IV semester.
- Dr.G.Dhamodhara Kannan suggested to reduce the overall syllabus content in Unit Operation in Agricultural Processing for IV semester.
- Dr.R.Murugesan suggested to include Value-Added Course for the skill upgrade
- Dr.T.Senthilkumar suggested to reduce the number of periods for one credit course from 30 periods to 15 periods.

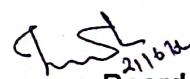


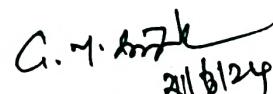
BoS Chairman

The following members were present during the meeting.

S.No.	Position	Name & Designation	Signature
1	Chairman	Dr.G.Vijayakumar Head of the Department Department of Agriculture Engineering	 21/6/24
2	University Nominee	Dr.G.Dhamodhara Kannan Associate Professor Department of Civil Engineering, Government College of Engineering, Bodinayakkanur	 21/6/24
3	Two subject experts from outside the Parent University	Dr.T. Senthilkumar, M.E (Ag.), Ph.D, FIE., Principal Scientist (Farm Machinery) Regional Centre ICAR-Central Institute of Agricultural Engineering Coimbatore Dr.B. Soundharajan Associate Professor Department of Civil Engineering, Amrita School for Sustainable Development, Amrita Vishwa Vidyapeetham Coimbatore	 21/6/24
4	Expert from Industry	Dr.R.Murugesan B.E, M.B.A., Ph.D., Managing Director DAMs Agri Private Limited, Pudhupalayam, Coimbatore	 Attended in online 21/6/24
5	Alumni	Mr.S. Praveen Kumar Senior Engineer Bhavani Sagar Division Rivulis Irrigation India Private Limited Coimbatore	 21/6/24
6	Faculty Members	Dr.N.Natarajan-Professor	 21/6/24
		Dr.G. Chandrasekaran- Associate Professor	 21/6/24
		Dr.V.Dharmaraj-Associate Professor	 21/6/24
		Dr.S.Sapthagiri- Associate Professor	 21/6/24
		Mr.K.Mohan-Assistant Professor	 21/6/24

Mrs.S.Udhaya-Assistant Professor	S.udhaya 21/6/24
Mr.S.Pramothkumar- Assistant Professor	S.Pramothkumar 21/6/24
Mr.V.Gnanaprakash- Assistant Professor	V.Gnanaprakash 21/6/24
Mr.M.Dineshkumar- Assistant Professor	M.Dineshkumar 21/6/24
Mrs.K.Lavanya- Assistant Professor	K.Lavanya 21/6/24
Ms.V.Manuja- Assistant Professor	V.Manuja 21/6/24
Mr.A.Sivakumar- Assistant Professor	A.Sivakumar 21/6/24
Ms.A.Harini- Assistant Professor	A.Harini 21/6/24
Mr.M.Sowndhararajan- Assistant Professor	M.Sowndhararajan 21/6/24


Chairman – Board of Studies


Principal



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DEPARTMENT OF AGRICULTURE ENGINEERING

SECOND BOARD OF STUDIES

MINUTES OF MEETING WITH RESOLUTION

Meeting No : SSCET/AGRI/BoS/2

Date : 21.06.2024

Time : 11.00 am

Agenda:

1. To discuss and pass the syllabus of the B.Tech. Agricultural Engineering Programme for the students admitted from 2023-24 academic year onwards.
2. Any other Matters.

Resolutions

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

Semester- III

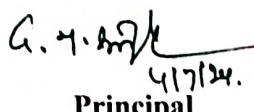
RECOMMENDATION	RESOLUTION
B.AG.1.1 Dr.G.DhamodharaKannan suggested to merge Unit-I & II in Surveying and Leveling course in III semester.	B.AG.R 1.1 Merged the unit-I & II as single unit for the course 23AG403 Surveying and Leveling
B.AG.1.2 Dr.G.DhamodharaKannan is suggested to add an experiment on determination of macro-Nutrient Analysis of soil in Soil Mechanics course in III semester	B.AG.R 1.2 The suggested experiments were included in experiments in the course 23AG404 Soil Mechanics

B.AG.1.3 Dr. T. Senthilkumar is suggested to add latest text and reference books for all courses	B.AG.R 1.3 Latest text and reference books are included for all the courses as per the suggestions.
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Semester- IV

RECOMMENDATION	RESOLUTION
B.AG.1.4 Dr.B.Soundharajan recommended to add topic Evapotranspiration on Unit I in hydrology and water recourses course in IV semester	B.AG.R 1.4 The Suggestions were included in the course 23AG407 Hydrology and Water Resources Engineering
B.AG.1.5 Dr.B.Soundharajan suggested to remove IUH topic in Unit III and Rule curve topic in Unit IV for Hydrology and Water Recourses course in IV semester	B.AG.1.5 As per the suggestions the topics were removed in the course 23AG407 Hydrology and Water Resources Engineering
B.AG.1.6 Dr.G.DhamodharaKannan suggested to reduce the overall syllabus content in Unit Operation in Agricultural Processing for IV semester	B.AG.1.6 Reduced topics in the course 23AG408 Unit Operations in Agricultural Processing as per the Suggestions
B.AG.1.7 Dr. T. Senthilkumar is suggested to reduce the number of periods for One credit courses from 30 periods to 15 periods	B.AG.1.7 As per the suggestions the number of periods were reduced to 15 in the following courses: (i) Landscape Gardening (ii) Vermicompost Technology


21/6/16
Chairman - Board of Studies


4/7/14
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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.

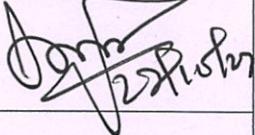
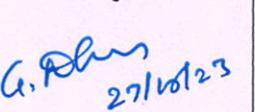
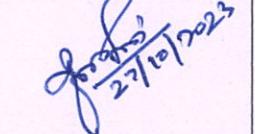
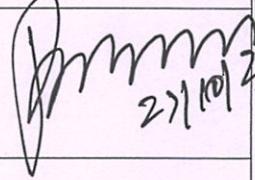
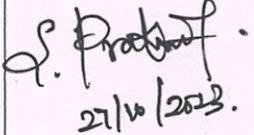
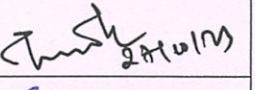
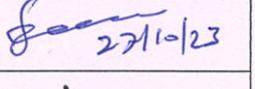
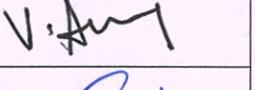
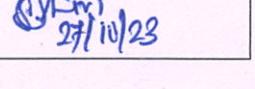
The members had thorough discussion and resolved to pass the curriculum to the Academic Council.

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 IRRI 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 5th 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 RAWE (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	Prof.K.Mohan Head of the Department Department of Agriculture Engineering	
2	University Nominee	Dr.G.Dhamodhara Kannan Associate Professor Department of Civil Engineering, Government College of Engineering, Thanjavur	
3	Two subject experts from outside the Parent University	Dr.T. Senthilkumar, M.E (Ag.), Ph.D, FIE., Principal Scientist (Farm Machinery) Regional Centre ICAR-Central Institute of Agricultural Engineering Coimbatore Dr.B. Soundharajan Associate Professor Department of Civil Engineering, Amrita School for Sustainable Development, Amrita Vishwa Vidyapeetham Coimbatore	
4	Expert from Industry	Dr.R.Murugesan B.E, M.B.A., Ph.D., Managing Director DAMs Agri Private Limited, Pudhupalayam, Coimbatore	
5	Alumni	Mr.S. Praveen Kumar Senior Engineer Bhavani Sagar Division Rivulis Irrigation India Private Limited Coimbatore	
6	Faculty Members	Dr.G. Vijayakumar-Professor	
		Dr.G. Chandrasekaran-Professor	
		Dr.V.Abarna- Associate Professor	
		Dr.V.S.Indhumathi-Associate Professor	
		Dr.S.Sapthagiri-Assistant Professor	

Mrs.S.Udhaya-Assistant Professor	S. Udhaya
Mr.S.Pramothkumar- Assistant Professor	S. Pramothkumar 27/10/23
Mr.V.Gnanaprakash- Assistant Professor	V. Gnanaprakash 27/10/23
Mr.M.Dineshkumar- Assistant Professor	M. Dineshkumar 27/10/23
Mrs.K.Lavanya- Assistant Professor	K. Lavanya 27/10/23
Ms.V.Manuja- Assistant Professor	V. Manuja 27/10/23
Mrs.N.G.Renuka- Assistant Professor	N.G. Renuka 27/10/23


Chairman – Board of Studies

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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.AG.1.1 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.AG.R 1.1 Swapped the course Engineering Mechanics (23ME303) from II semester to III semester and Principles of Agronomy and Crop Production (23AG401) from III semester to II semester.
B.AG.1.2 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.AG.R 1.2 Suggested topics during the meeting were included in the experimental part of the course Principles of Agronomy and Crop Production (23AG401).

Semester- III

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

Semester- V

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

Electives

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

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

Chairman - Board of Studies

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*C. M. Ramal
27.02.23*

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