

ADITYA ENGINEERING COLLEGE

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Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

DEPARTMENT OF AGRICULTURAL ENGINEERING

Minutes of the VI meeting of BOS scheduled on 10-10-2020

Date: 14-10-2020

The VI BOS meeting of Agricultural Engineering was virtually held in Microsoft Teams on 10-10-2020 at 10.00 AM. Dr. N.V. Gowtham Deekshithulu, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by chairperson BOS.

Dr. N.V. Gowtham Deekshithulu, Chairperson of BOS, invited all the distinguished members of BOS to the VI BOS meeting.

Agenda 6.2: Discussion and ratification of the Vision and Mission of the agricultural engineering department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Program under the Agricultural Engineering Department.

1. The BOS members accepted and ratified the Vision, Mission, Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the agricultural engineering department.
2. Suggested to equip students with the skills needed to adapt better to the changing global scenario and gain access to multiple career opportunities.

Agenda 6.3: Discussion on proposed AR19 B.Tech. (Ag.E) Program – IV & V semester syllabus and ratification of the same.

The BOS members approved AR19 B.Tech. (Ag.E) Program – IV & V semester syllabus after making the following changes in the proposed syllabi.

1. Suggested alignment and spacings to be corrected in Surface Water Hydrology.
2. Suggested to increase mass transfer syllabus in HMT subject and modification in CO 5.
3. Suggested to add numerical problems on mass balance studies in HMT lab.

4. Suggested to add double clutch, zero clutch in FPTs course.
5. Suggested to check the alignment of lab experiments in order and add starting, stopping of tractor and driving of tractor in FPTs lab.
6. Suggested to add principles, practices of cold storage in TDRS course.
7. Suggested to add failure theory in Strength of materials course.
8. Suggested to add machine and structure in unit 1 and alignment of topics in order and removal of governors and addition of cam follower and springs topics in T&DAM course.
9. Suggested to align course objectives in order and add unit operations briefly under unit 1 in APE&FQ subject.
10. Suggested to add precession topic in MMI course.
11. Suggested to change “food grains, fruits and vegetables” to food commodities and aided products in EPBM course.
12. Suggested to add brief topics on organic farming, zero budget farming, vertical gardening, kitchen farming and specify the classification of few crops.

Agenda 6.4: Discussion on proposed AR20 B.Tech. (Ag.E) first year program structure and ratification of the same.

The BOS members approved AR20 B.Tech. (Ag.E) Program – I year course structure after making the following changes:

Suggested to keep Principles of Agronomy and Soil Science theory and lab subject in the I sem itself as it was a basic fundamental course.

Agenda 6.5: Discussion on proposed AR20 B.Tech. (Ag.E) Program – I & II semesters syllabus and ratification of the same.

The BOS members approved AR20 B.Tech. (Ag.E) Program – I & II semesters syllabus after making the following changes in the proposed syllabi.

1. Suggested to keep only basic functions of N, P and K nutrients.
2. Suggested to keep concise concepts of agronomy and soil science.
3. Suggested to add identification of manures and fertilizers experiment in Principles of Agronomy and Soil Science lab.

Agenda 6.6: Discussion on Mathematics courses in the IV Semester of AR19 B.Tech. (Ag.E), AR20 B.Tech. (Ag.E) I to IV Semesters and ratification of the same.

The BOS members approved the Mathematics courses in the IV Semester of AR19 B.Tech. (Ag.E), AR20 B.Tech. (Ag.E) I to IV Semesters after making the following changes:

1. Suggested to add probability and distribution, sampling theory and tests of hypothesis concepts as separate units in NMST course.
2. Suggested to add new reference text books in ITAPDE and NMST courses.
3. Suggested to complete all the mathematics courses in I & II semesters for the next regulations.

Agenda 6.7: Discussion on Physics, Chemistry and English courses in the I & II Semesters of AR20 B.Tech. (Ag.E) and ratification of the same.

The BOS members approved the proposed Physics, Chemistry and English course syllabus of I & II Semesters of AR20 B.Tech. (Ag.E).

Agenda 6.8: Discussion on Courses having focus on employability / entrepreneurship/skill development in the programme of B.Tech (Ag.E) programme and ratification of the same.

The BOS members approved the recommended employability/entrepreneurship/skill development recommended courses and ratified the same.

Proposed to recognize C and CAD lab as a employability/skill oriented courses.

Agenda 6.9: Discussion on the new courses offered in the B.Tech. (Ag.E) programme and ratification of the same.

The BOS members suggested and ratified the new courses in the B.Tech. (Ag.E) Suggested to come up with courses related to agri-business management and software applications in agriculture. The list of new courses during the academic year 2020-2021 enclosed as Annexure-I.

Agenda 6.10: Discussion on the B.Tech. (Ag.E) programme in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.

The BOS members recommended and ratified the B.Tech. (Ag.E) programme in which Choice Based Credit System(CBCS)/elective course system.

The committee members advised to complete all the basic courses in the two years of B.Tech. (Ag.E) programme and suggested to offer elective courses from the V semester according to the specialization.

Agenda 6.11: Discussion on the value-added courses offered for students and ratification of the same.

The BOS members approved the list of value-added courses offered to students and ratified the same.

Agenda 6.12: Discussion on the percentage of syllabus revision done in B.Tech (Ag.E) the programs and ratification of the same.

The syllabus revision was done in B.Tech (Ag.E) and approved by the BoS members. The list of courses revised during the academic year 2020-2021 is enclosed as Annexure-II.

Agenda 6.13: Analysis of Results.

The BOS chairperson presented the results. The BOS members appreciated the faculty for achieving better pass percentages.

Agenda 6.14: Analysis of Students Feedback & Action Taken Report.

Student feedback and action report is presented by BOS Chairperson to the BOS members and BOS members approved the same.

Agenda 6.15: Analysis of Stakeholder's Feedback on Curriculum

The BoS chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

Agenda 6.16: Any other item/s with the approval of chairperson.

Suggested to keep professional core courses by increasing the credits.


Suggested to inculcate training programmes for better job opportunities to the students.

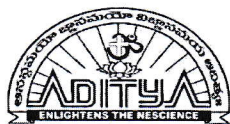
Agenda 6.17: Scheduling of next BOS meeting.

After discussions with BOS members, the next BOS meeting will be planned in the month of September/October 2021.

Agenda 6.18: Vote of Thanks.

Dr. N.V. Gowtham Deekshithulu, BOS chairperson presented the Vote of thanks.


BOS Chairperson
Head of the Department
Department of Agricultural Engineering
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Department of Agricultural Engineering

ANNEXURE-I

LIST OF NEW COURSES IN THE ACADEMIC YEAR 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	II	201ES2L12	Computer Aided Drafting Lab
2	B. Tech (Ag.E)	III	191ES3T10	Internet of Things
3	B. Tech (Ag.E)	III	191MC3A04	Essence of Indian Traditional Knowledge
4	B. Tech (Ag.E)	IV	191BS4T16	Numerical Methods & Statistical Techniques
5	B. Tech (Ag.E)	IV	191AG4L04	Ground Water Hydrology Lab
6	B. Tech (Ag.E)	IV	191AG4L06	Heat and Mass Transfer lab
7	B. Tech (Ag.E)	IV	191MC4A06	Biology for Engineers
8	B. Tech (Ag.E)	VII	171AG7E12	Aqua Cultural Engineering
9	B. Tech (Ag.E)	VII	171AG7E13	Soil Dynamics in Tillage and Traction
10	B. Tech (Ag.E)	VII	171AG7E14	Computational Fluid Dynamics
11	B. Tech (Ag.E)	VII	171AG7P01	Industry Oriented (Internship) Minor Project
12	B. Tech (Ag.E)	VIII	171AG8E15	Hydraulic Devices and Control
13	B. Tech (Ag.E)	VIII	171AG8O03	Mechatronics
14	B. Tech (Ag.E)	VIII	171AG8O05	Image Processing Techniques

N.V. Goud

BOS Chairperson

Head of the Department

Department of Agricultural Engineering
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ANNEXURE-II

LIST OF COURSES REVISED IN THE ACADEMIC YEAR 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	I	201ES1L04	Soil Science and Agronomy Field Lab
2	B. Tech (Ag.E)	III	191BS3T11	Integral Transforms and Applications of Partial Differential Equations
3	B. Tech (Ag.E)	III	191AG3L01	Principles of Agronomy and Soil Science Lab
4	B. Tech (Ag.E)	IV	191AG4L05	Farm Power and Tractor Systems Lab
5	B. Tech (Ag.E)	VII	171AG7T19	Farm Machinery and Equipment – II
6	B. Tech (Ag.E)	VII	171AG7E09	Seed Processing and Storage Engineering
7	B. Tech (Ag.E)	VII	171AG7E11	Food Packaging Technology
8	B. Tech (Ag.E)	VII	171AG7L06	Farm Machinery Lab – II
9	B. Tech (Ag.E)	VII	171AG7L07	Dairy and Food Engineering Lab
10	B. Tech (Ag.E)	VIII	171AG8E17	Design of Agricultural Machinery
11	B. Tech (Ag.E)	VIII	171AG8O02	Industrial Pollution Control Engineering
12	B. Tech (Ag.E)	VIII	171CS8O04	Operations Research

N.V. G. A
BOS Chairperson

Head of the Department
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ANNEXURE III

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.15	Suggested to include Skill development courses to improve technical skills of students.	As per suggestions, Skill Oriented Courses will be included in the course curriculum.
2	6.11	Suggested to add courses which help them in industry sector.	As per suggestions, VACs will be selected and included in the course curriculum.
3	6.15	Suggested to include more industrial visits so, that students will gain practical knowledge.	As per suggestions, more industrial visits will be included in the coming semesters.
4		It is better to have MOU and placements with core industries.	As per suggestions and discussions made, necessary step will be initiated in coming years.
5		Suggested to elaborate HACCP concept in skill Oriented Course- Food Quality and Control.	As per suggestions, HACCP concept will be given in skill Oriented Course- Food Quality and Control.
6		Suggested to inculcate training programmes for better job opportunities to the students.	As per suggestions and discussions made, necessary step will be taken
7		For better understanding of Heat and Mass Transfer course, practical knowledge is required.	As per suggestions, Heat and Mass Transfer Lab will be included in course curriculum.
8		Suggested to include more advanced courses to merit students to enhance their knowledge	As per suggestions, Honor and minor courses will be included in course curriculum.
9		Suggested to add simulation topics in Computer Aided Manufacturing course.	As per suggestions, simulation topics will be included in Computer Aided Manufacturing course.

10	6.14	Requested to provide career guidance and expert talks by industrialists.	As per suggestions, Alumni meets, and guest lectures will be included.
11		Suggested to add new textbooks and reference books in Integral Transforms, and Applications of Partial Differential Equations.	As per suggestions, new textbooks and reference books will be included in Integral Transforms and Applications of Partial Differential Equations
12		Suggested to reduce syllabus in Irrigation and Drainage Engineering.	As per suggestions and discussions made, topics of Lacey's and Kennedy's theory removed in design of irrigation canal capacity in Irrigation and Drainage Engineering.


BOS Chairperson
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