

ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956 Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Department of Agricultural Engineering

11-10-2021

Minutes of the VII meeting of BOS scheduled on 03-10-2021 and 07-10-2021

The VII BOS meeting of Agricultural Engineering was virtually held in Microsoft Teams on 03-10-2021 and 07-10-2021 at 9.30 AM. Dr. N.V. Gowtham Deekshithulu, Chairperson presided over the meeting.

Agenda 7.1: Welcome address by chairperson BOS.

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

Agenda 7.2: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.

The BOS members have ratified the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Ag.E Department.

Agenda 7.3: Discussion on proposed AR19 B.Tech. (Ag.E) Program – VI, VII & VIII semesters syllabus and ratification of the same.

The BOS members approved the AR19 B.Tech. (Ag.E) VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabus.

- 1. Suggested to add surge irrigation, list of different irrigation structures in Irrigation and Drainage Engineering.
- 2. Suggested to add few topics on horticultural crops like medicinal, plantation, spices in Post Harvest Engineering for Horticulture Produce.
- 3. Suggested to remove unit operations in crop production, check the sequence of topics and add new text books in Agricultural Machinery and Equipment.
- 4. Suggested to add vibration topics in Human Engineering and Safety.
- 5. Suggested to add irrigation structures in Agriculture Structures.
- 6. Suggested to check sequence of COB's, CO's and topics and add text book of Chakravarthy in Agro Industries and Bi-Product Utilization.

- 7. Suggested to rearrange the content of syllabus in order and add new text books of kinematics in machine design, etc. in Design of Agricultural Machinery.
- 8. Suggested to rearrange COB 1 and add cost-benefit analysis in Watershed Planning and Management.
- Suggested to add introduction of seed processing unit operations like definition, seed collection techniques, etc and keep testing and storage topics under same unit in Seed Processing and Storage Engineering.
- 10. Suggested to add software's pertaining to weather forecast and causes of climate change in Weather forecast in Agriculture course.
- 11. Suggested to keep design topics first and then methods of applications in Bio-energy systems design and applications.
- 12. Suggested to replace CROPWAT software from augmented to main experiments, isobath map to augmented experiments and mention the method of estimation of ET in Irrigation and Drainage Engineering Lab.
- 13. Suggested to add bailer testing in augmented list for Agricultural Machinery and Equipment lab.
- 14. Suggested to add fundamentals of food process engineering text book in Dairy and Food Engineering.
- 15. Suggested to add stream bank erosion and permanent gully control structures topics in SWCE course.
- 16. Suggested to change course titles of Agriculture structure as Agricultural Structures and Novel technologies for food processing and shelf extension as Novel technologies for food processing and shelf life extension.
- 17. Suggested to change Wastewater treatment and management course title as Water Quality and Pollution Control.
- 18. Suggested to change Reusability of municipal effluent in agriculture course with Floods and Control Measures.
- 19. Suggested to change Organic farming for sustainable agricultural production course with Plastic Applications in agriculture.
- 20. Suggested to concentrate more focus on machine manufacturing in Production technology in agricultural machinery.

- 21. Suggested to add trouble shooting of sprinkler and drip system in micro irrigation engineering course.
- 22. Suggested to add FSSAI standard codes for layout of Food Processing Plant Design and Layout.
- 23. Suggested to add shade nets topic in green house technology.
- 24. Suggested to add hydraulic hitch and ADDC topics in Hydraulic devices and control.
- 25. Suggested to change title as Introduction to Remote sensing and GIS, add important features of remote sensing satellites, vegetation indices, NDVI, identification of layers, application of RS and GIS in land and water use.
- 26. Suggested to align the concepts in continuity and change the title as Applications of RS and GIS in Land and Water Resources Management for GIS essentials in agriculture and its application.

Agenda 7.4: Discussion on proposed AR20 B.Tech. (Ag.E) Program structures and ratification of the same.

The BOS members approved the AR20 B.Tech. (Ag.E) program structure after making the following changes in the proposed AR20 B.Tech. (Ag.E) program.

- 1. Suggested to keep basic courses in III & IV semesters.
- 2. Suggested to follow the curriculum of fifth deans committee subjects and syllabus of ICAR for AR 20.
- 3. Suggested some new open elective courses in AR 20 and make them applicable to agricultural engineering students also.
- 4. Suggested to keep solid works and Land and Water Management Applications using Google Earth Engine subjects as skill oriented courses in III and VII semester respectively.
- 5. Suggested to keep different Software applications used in Agriculture as Skill oriented course.
- 6. Suggested to club FM-I and FM-II as Farm Machinery and Equipment course because of insufficient credits.
- 7. Suggested to club Irrigation Engineering and Drainage Engineering as IDE course because of insufficient credits.

Agenda 7.5: Discussion on proposed AR20 B.Tech. (Ag.E) Program – III & IV semesters syllabus and ratification of the same.

The BOS members approved the AR20 B.Tech. (Ag.E) III and IV semesters syllabus program after making the following changes in the proposed AR20 B.Tech. (Ag.E) syllabi.

- 1. Suggested to add new textbooks and reference books in Integral Transforms and Applications of Partial Differential Equations.
- 2. Suggested to follow the fifth deans committee syllabus for all the courses.
- 3. Suggested to add Struts topic in Strength of Materials course.
- 4. Suggested to add simulation topics and keep it as a complete unit in Computer Aided Manufacturing course.
- 5. Suggested to keep Entrepreneurship Development and Business Management course under HSS category.
- 6. Suggested to elaborate HACCP concept in skill oriented course in Food Quality and Control.

Agenda 7.6: Discussion on proposed AR20 Honors and Minor Degree courses and ratification of the same.

The BOS members ratified the proposed list of courses offered to obtain Honors and Minors degree courses of AR20 B.Tech. (Ag.E) program after making the following discussion points.

- 1. Suggested to keep some of the professional elective courses in honors program.
- 2. Suggested that to keep only basic courses in minors that may helpful for other departments to get basic application knowledge in their streams.
- 3. Suggested to change few courses alignment order in the semesters.

Agenda 7.7: Discussion on proposed AR20 Honors and Minor Degree courses syllabus and ratification of the same.

The BOS members ratified the proposed syllabus of IV semester Honors and Minors Degree of AR20 B.Tech. (Ag.E) after making the following discussion points.

- Suggested to follow the fifth deans committee syllabus of ICAR for AR 20 Honors and Minor Degree courses.
- 2. Suggested to keep syllabus very crisp and short for advanced honors program.

Agenda 7.8: 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 the students.

Agenda 7.9: Analysis of Results

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

Agenda 7.10: 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 7.11: Any other item/s with the approval of chairperson

- 1. Suggested to keep more basic professional core courses before starting of professional electives.
- 2. Suggested to inculcate self-learning practices in students with the adoption of innovative teaching methods.

Agenda 7.12: Scheduling of next BOS meeting

After discussions with BOS members, the next BOS meeting will be planned in the month of March/April 2022.

Agenda 7.13: 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

ADITYA ENGINEERING COLLEGE (A9)