



# ADITYA ENGINEERING COLLEGE

• An Autonomous Institution •

Approved by AICTE • Affiliated to JNTUK • Accredited by NBA, NAAC with 'A' Grade

Recognized by UGC under sections 2(f) and 12(B) of UGC Act 1956

Aditya Nagar, ADB Road, Surampalem-533 437, Near Kakinada, E.G.Dt., Ph: 99498 76662, 99897 76661

14-11-2018

## DEPARTMENT OF AGRICULTURAL ENGINEERING

### Minutes of the III meeting of BoS scheduled on 10-11-2018

The following points are discussed and recommended by the BoS members of Agricultural Engineering Department.

#### **Agenda 3.1: Welcome address by chairperson BoS**

Mr. Y.V. Krishna Reddy, Chairman of BoS, invited all the distinguished members of BoS to the second BoS meeting.

#### **Agenda 3.2: Discussion on proposed AR17 B. Tech program of V, VI, VII & VIII semesters syllabus and ratification of the same.**

After long discussions with BoS members on Proposed course syllabus of each course in B. Tech V, VI, VII & VIII semesters; The following suggestions are made:

1. Suggested to keep one reference book for earth moving equipment in Farm Machinery and Equipment-I course in VI semester.
2. Suggested to keep test reports of Farm Machinery Equipment in references for FME lab in VI semester.
3. Suggested to remove the testing part in FME-II, Unit-V in VII semester.
4. Suggested to keep year last in references.
5. Suggested to change the terminology in Design of Agricultural Machinery course VIII semester.
6. Suggested to include all agronomical practices in unit -III of Soil & Water Conservation subject in VI semester.
7. Suggested to give the priority for new edition text books.
8. Suggested to include latest technologies using in the field of Agricultural Engineering with respect to subject.
9. Suggested to add Soil & Water Conservation manual in Watershed Management subject in VIII semester.

10. Suggested to have maximum of 12 experiments including augmented experiments in Labs.
11. Suggested to remove the Week 1, Week 2..... and have only list of experiments with numbering.
12. Suggested to merge Farm Machinery and Equipment I & 2 subjects together can form as Farm Machinery and Equipment subject as well as FM labs also.
13. Suggested to change the units order if required.
14. Suggested that, information and Communications Technology (ICT) in Agriculture subject should be added in VII semester.
15. In addition to that few subjects like Matlab, ANN, AI and etc., should be added in VI and VIII semesters.
16. The list of courses introduced is enclosed as Annexure-I.
17. The list of courses revised is enclosed as Annexure-II.
18. The BOS chairperson discussed the courses related to enhance the employability of the students.

**Agenda 3.3: Discussion on the proposed AR19 B.Tech (Ag.E) program as per the guidelines of APSCHE & AICTE**

1. Watershed Management subject will reduce to 2 credits instead of 3.
2. Aquaculture Engineering subject will reduce to 2 credits instead of 3.
3. Soil and Water Conservation engineering subject will reduce to 2 credits instead of 3.
4. Micro Irrigation Engineering subject will reduce to 2 credits instead of 3.
5. Design of Agricultural Machinery subject will reduce to 2 credits instead of 3.
6. Engineering Properties of Biological Materials and Food Quality subject will reduce to 2 credits instead of 3.
7. Greenhouse and Polyhouse Technology subject will reduce to 2 credits instead of 3.
8. Suggested to combine Farm Machinery and Equipment I & II as single subject.
9. Suggested to separate DAM into two subjects: First part contains Machine Design subject while second one contains Farm Machinery Design and Equipment.
10. Suggested to combine Farm Machinery Lab I & II as a single lab.
11. Suggested to replace Farm Machinery Lab-II by Field Operations & Maintenance of Tractor & Farm Machinery lab.

12. Suggested to rearrange and rename FOMT Lab-I as FOMT lab.
13. BOS members discussed the Elective courses, suggested to rearrange Professional Elective subjects in V, VI, VII, VIII séesters.

#### **Agenda 3.4: 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 3.5: Analysis of Stakeholder's Feedback on Curriculum**

The stakeholder's feedback on curriculum was discussed and applicable considerations were incorporated. 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 3.6: Analysis of Results**

The BoS Chairperson presented the odd semester pass percentage for the A.Y.2016-2017.

#### **Agenda 3.7: Any other item/s**

Suggested to guide the students in in GATE/ Public exams orientation from V semester onwards for their career development.

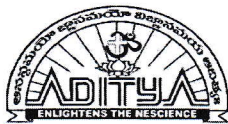
#### **Agenda 3.8: Scheduling of the next BoS meeting**

After discussions with BoS members, the next BoS meeting will be planned in the month of July 2018.

#### **Agenda 3.9: Vote of Thanks**

Mr. Y.V. Krishna Reddy, BoS chairperson presented the Vote of thanks.

  
**BOS Chairperson**  
**Head of the Department**  
**Department of Agricultural Engineering**  
**ADITYA ENGINEERING COLLEGE (A9)**



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## Department of Agricultural Engineering

### ANNEXURE-I

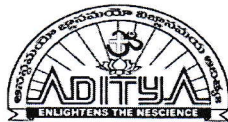
#### LIST OF NEW COURSES IN THE ACADEMIC YEAR 2018-2019

| S. No | Program        | Semester | Course Code | Course Name               |
|-------|----------------|----------|-------------|---------------------------|
| 1     | B. Tech (Ag.E) | III      | 171HS3A10   | Employability Skills - I  |
| 2     | B. Tech (Ag.E) | IV       | 171HS4A11   | Employability Skills – II |

  
BOS Chairperson

Head of the Department  
Department of Agricultural Engineering  
ADITYA ENGINEERING COLLEGE (AG)





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### ANNEXURE-II

#### LIST OF COURSES REVISED IN THE ACADEMIC YEAR 2018-2019

| S. No | Program        | Semester | Course Code | Course Name                                 |
|-------|----------------|----------|-------------|---|
| 1     | B. Tech (Ag.E) | III      | 171AG3T01   | Principles of Soil Science and Agronomy     |
| 2     | B. Tech (Ag.E) | III      | 171AG3T02   | Renewable Energy Sources                    |
| 3     | B. Tech (Ag.E) | III      | 171ES3T19   | Properties and Strength of Materials        |
| 4     | B. Tech (Ag.E) | III      | 171ES3T20   | Electrical and Electronics Engineering      |
| 5     | B. Tech (Ag.E) | IV       | 171AG4T05   | Heat and Mass Transfer                      |
| 6     | B. Tech (Ag.E) | IV       | 171ES4T25   | Fluid Mechanics and Open Channel Hydraulics |
| 7     | B. Tech (Ag.E) | IV       | 171AG4T07   | Surface Water Hydrology                     |

BOS Chairperson

Head of the Department

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## DEPARTMENT OF AGRICULTURAL ENGINEERING

### ANNEXURE-III

| S. No | Agenda Item No. | Stakeholders Recommended  | Action Taken   |
|-------|-----------------|---|--|
| 1     | 3.5             | Suggested to provide courses to improve employability skills  | As per suggestions, Employability skills- I, II will be included.  |
| 2     |                 | Suggested to include courses which improves the technical skills of a student.  | As per suggestions, Value added courses will be included in the course curriculum.                       |
| 3     |                 | Suggested to add supercharger, turbocharger and various steering systems in Farm Power & Tractor system subject.                                      | As per suggestions given, Farm Power & Tractor system syllabus will be modified.                         |
| 4     |                 | Suggested to include some courses to improve moral awareness while writing research papers.   | As per suggestions, Professional Ethics & Human Values will be included in the curriculum.               |
| 5     |                 | Suggested to include more Industrial/ field visits.   | As per suggestions, necessary step will be taken in the coming semesters.                                |
| 6     |                 | Suggested to add some numerical methods in Computational Fluid Dynamics course.   | As per suggestions, required numerical methods will be included in Computational Fluid Dynamics subject. |
| 7     |                 | Suggested to shift Dairy and Food Engineering subject from VI to VII semester   | As per suggestions, Dairy and Food Engineering subject will be changed from VI to VII semester.          |
| 8     |                 | Suggested to include crop co-efficient critical moisture sensitive periods, growth stages of various crops topic in Irrigation & Drainage Engineering | Suggested topics will be included in the Irrigation & Drainage Engineering course.                       |
| 9     |                 | Suggested to combine sowing and fertilization under same topic Principles of Soil Science and Agronomy course   | As per suggestions, modifications will be included in Principles of Soil Science and Agronomy course.    |

|    |     |  |  |
|----|-----|--|--|
| 10 | 3.2 | Suggested to reduce the syllabus in FME-II                 | As per suggestions and discussions made, testing part will be removed from FME- II course. |
| 11 | 3.4 | Suggested to introduce self- study courses.                | As per suggestions, MOOC courses will be included in course curriculum.                    |
| 12 |     | Suggested to give the priority for new edition text books. | As per suggestions, latest textbooks will be referred.                                     |

  
**BOS Chairperson**  
 Head of the Department  
 Department of Agricultural Engineering  
 ADITYA ENGINEERING COLLEGE (A9)