

ADITYA ENGINEERING COLLEGE

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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

24-07-2019

DEPARTMENT OF AGRICULTURAL ENGINEERING

Minutes of the IV meeting of BoS scheduled on 20-07-2019

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

Agenda 4.1: Welcome address by chairperson BoS

Mr. Y V Krishna Reddy chairman of BoS invited all the distinguished members of BOS to the fourth BOS meeting.

Agenda 4.2: 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 4.3: Discussion on new course structure for AR19 as per the guidelines of AICTE and APSCHE for B.Tech (Ag.E) program.

1. Suggested to avoid MS (Management Science) course, if possible.
2. Suggested to keep all fundamental courses as PCC (Professional Core Course's), which are essential for higher education and public service sectors.
3. Suggested to merge the courses theory of machines and thermodynamics as a new subject titled "theory and design of agricultural machinery" with concerned laboratory.
4. Suggested to merge the courses properties and strength of materials and soil mechanics to form a new subject titled mechanics of materials.
5. Suggested to change the title of farm machinery and equipment to Agricultural machinery and equipment.
6. Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment.

7. Suggested to split the course design of soil and water conservation and farm structures as design of soil and water conservation structures and agricultural structures.
8. Suggested to change the title of heat and mass transfer to heat transfer and refrigeration system and include the lab laboratory also.
9. Suggested to interchange Groundwater Hydrology subject in III semester with Fluid Mechanics and Open Channel Hydraulics in IV semester courses as well as labs.
10. Suggested to shift dairy and food engineering subject from VI semester to VII semester.
11. Suggested to have the subjects Soil Dynamics in Tillage and Traction and Production Technology in Agricultural Machinery as professional elective 1 and Professional Elective 2 respectively in Farm Machinery Engineering track.
12. Suggested to include Testing of Agricultural Machinery syllabus by referring various testing procedures available at Southern Region Farm Machinery Testing and Training Institute to Design of Agricultural Machinery subject in professional Elective 3 of Farm Machinery Engineering track.
13. Suggested to incorporate two subjects titled as Agricultural Structures and Wastewater Treatment and Management as PE 2 and 4 respectively in Soil and Water Conservation Engineering track.
14. Suggested to rearrangement of subjects in Soil and Water Conservation Engineering tracks in the order of Theory of Structures, Agricultural Structures, Watershed Planning and Management, Wastewater Treatment and Management, Micro Irrigation Engineering and Introduction to Remote Sensing as PE 1, 2, 3, 4, 5 and 6 respectively.
15. Suggested to have Heat Transfer and Refrigeration System instead of Heat and Mass Transfer as Profession Core Course.
16. Suggested to keep Heat Transfer and Refrigeration Systems subject in 4th semester instead of Engineering Properties of Biological Materials and Food Quality (EPBM&FQ) and EPBM as single subject can be kept in Professional Elective 1 of Agricultural Process and Food Engineering track.
17. Suggested to incorporate Food Quality syllabus of EPBM&FQ in Agricultural Process Engineering (APE) subject and also that subject is titled as Agricultural Process Engineering and Food Quality (APE&FQ).

Agenda 4.4: Discussion on proposed AR19 B. Tech (Ag.E) program of I and II Semester syllabus and ratification of the same.

Discussed on I and II semesters syllabus and accepted the same.,

Agenda 4.5: Discussion on the courses having focus on employability/entrepreneurship/skill development in the B.Tech (Ag.E) program and ratification of the same.

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B.Tech. (Ag.E). program.

Agenda 4.6: Discussion on the new courses offered in the B.Tech. (Ag.E), programme and ratification of the same

Members of BOS noted the new courses offered in the B.Tech. (Ag.E), and ratified the same. The list of new courses during the academic year 2019-2020 enclosed as Annexure-I.

Agenda 4.7: 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.

Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (Ag.E), programme.

Agenda 4.8: Discussion on the percentage of syllabus revision done in all the B.Tech. (Ag.E) programs and ratification of the same.

The percentage change in syllabus was discussed and approved by the BoS members. The list of courses revised during the academic year 2019-2020 is enclosed as Annexure-II.

Agenda 4.9: Discussion on the value-added courses offered for students and ratification of the same.

Members of BOS ratified the various value- added courses identified for the students to be offered.

Agenda 4.10: Analysis of Results

The BOS Chairperson presented the odd semester pass percentage for the A.Y.2018-2019. The BOS members noted the same.

Agenda 4.11: 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 4.12: 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 4.13: Any other items with the approval of chairman

Suggested to inculcate self-learning practices in students with the adoption of innovative teaching methods.

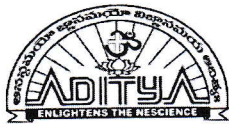
Agenda 4.14: Scheduling of the next BOS meeting

After discussions with BOS members, the next BOS meeting will be planned in the month of November 2019.

Agenda 4.15: 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
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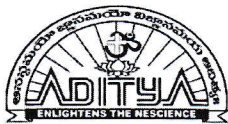
Department of Agricultural Engineering

ANNEXURE-I

LIST OF NEW COURSES IN THE ACADEMIC YEAR 2019-2020

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	I	191MC1A02	Constitution of India
2	B. Tech (Ag.E)	II	191ES2T02	Engineering Graphics and Design
3	B. Tech (Ag.E)	II	191ES2L03	Essential Electrical and Electronics Engineering Lab
4	B. Tech (Ag.E)	II	191ES2L14	Agricultural Engineering Workshop
5	B. Tech (Ag.E)	II	191PR2P01	Engineering Exploration Project
6	B. Tech (Ag.E)	VI	171AG5E02	Rural Water Supply, Sanitation and Environmental Engineering
7	B. Tech (Ag.E)	VI	171AG5S01	MOOCs-1
8	B. Tech (Ag.E)	VI	171HS5T06	Employability Skills - III
9	B. Tech (Ag.E)	VI	171AG6E06	Green House / Poly House Technology
10	B. Tech (Ag.E)	VI	171AG6E07	Optimization, Operations Research and Systems Engineering
11	B. Tech (Ag.E)	VI	171AG6E08	Industrial Engineering and Management
12	B. Tech (Ag.E)	VI	171AG6S02	MOOCs - II
13	B. Tech (Ag.E)	VI	171HS6T07	Employability Skills - IV


BOS Chairperson
Head of the Department
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ANNEXURE-II

LIST OF COURSES REVISED IN THE ACADEMIC YEAR 2019-2020

Times	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	I	191HS1T01	Communicative English
2	B. Tech (Ag.E)	I	191BS1T01	Differential Equations and Linear Algebra
3	B. Tech (Ag.E)	I	191BS1T02	Engineering Physics
4	B. Tech (Ag.E)	I	191BS1L01	Engineering Physics Lab
5	B. Tech (Ag.E)	I	191MC1A01	Environmental Science
6	B. Tech (Ag.E)	II	191BS2T05	Partial Differential Equations and Vector Calculus
7	B. Tech (Ag.E)	II	191BS2T06	Chemistry of Materials
8	B. Tech (Ag.E)	II	191ES2T02	Engineering Graphics and Design
9	B. Tech (Ag.E)	II	191BS2L04	Engineering Chemistry Lab
10	B. Tech (Ag.E)	V	171AG5T11	Agricultural Process Engineering
11	B. Tech (Ag.E)	V	171AG5T13	Farm Power and Tractor Systems
12	B. Tech (Ag.E)	V	171HS5E01	Managerial Economics and Financial Analysis
13	B. Tech (Ag.E)	V	171AG5L03	Field Operation and Maintenance of Tractors Lab
14	B. Tech (Ag.E)	VI	171AG6L04	Farm Machinery Lab - I
15	B. Tech (Ag.E)	VIII	R1642351	Design of Agricultural Machinery


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ANNEXURE-III

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	4.11	Suggested to add the courses to improve employability skills for better employability.	As per suggestions, Employability Skills- III & IV will be included in the course curriculum.
2	4.8	Suggested to include courses which helps the student to improve their skills.	VAC will be included in the course curriculum as per suggestions.
3	4.11	Suggested to add machine and structure, cam follower, and springs & removal of governors topics in T&DAM course.	As per suggestions, modifications will be included in the course T& DAM.
4		Suggested to add advanced machine designing course	As per suggestions, Computer Aided Drafting Lab will be included in the course curriculum
5	4.3	Suggested to split the course design of soil and water conservation and farm structures as design of soil and water conservation structures and agricultural structures.	As per suggestions, modifications will be included in the course curriculum.
6	4.11	Suggested to keep all the experiments in order in survey and levelling lab as per theory.	As per suggestions, changes will be included in the course curriculum.
7	4.3	Suggested to remove food quality topic from EPBM and include in APE.	As per suggestions, modifications will be included in EPBM & APE courses.
8	4.11	Suggested to add courses related to watershed and unit hydrographs.	As per suggestions, Watershed Management will be included in the course curriculum.
9	4.3	Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment.	Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment.

10	4.10	More exposure to field visits to gain practical knowledge.	As per suggestions, more field visits will be conducted in coming semesters.
11		Suggested to reduce the syllabus of principle of agronomy and soil science course.	As per suggestions and discussions made, certain topics in soil science and agronomy removed in the subject of principle of agronomy and soil science.
12		Suggested to include more field visits/ industrial visits.	As per suggestions, required steps will be taken.


BOS Chairperson
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