

SDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR
(AUTONOMOUS)

7th BoS Meeting of Agricultural Engineering (AG ENGG)

Date: 12-07-2021

The 7th meeting of Board of Studies (BoS) in Agricultural Engineering is held on 12th July, 2021 at 10.00 A.M through online zoom platform in the Department of Agricultural Engineering, Siddharth Institute of Engineering & Technology, Puttur, Chittoor-Dist.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.

Dr. Bogala Madhu, Chairman BoS chaired the meeting and welcomed all the members to the seventh BoS meeting and discussed about the following agenda

Agenda:

1. To discuss and frame the syllabi of II Year B.Tech. Under R20 regulation.
2. To discuss and frame the syllabi of III Year B.Tech. Under R19 regulation.
3. To discuss and frame the syllabi of IV Year B.Tech. Under R18 regulation.
4. To prepare the panels for examiners and paper setters for II, III and IV B. Tech. that comes under R20, R19 and R18 respectively.

After a brief introduction the agenda items listed above were taken up for discussion and the following resolutions were passed.

Minutes:

Agenda:1

Approval of course structure and syllabi for II-Year UG in Agricultural Engineering w.e.f., A.Y.2021-22.

Resolution:1

After detailed discussion, the BoS resolved to approve the course structure for II year UG Agricultural Engineering (given in **Annexure -I**) applicable from the A.Y.2021-22.

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabi framed for the II year B. Tech I & II-Semesters (given in **Annexure-II**).

A. Course & Syllabus Comparison

With reference to the R19 regulations, the new regulation (R20) syllabus for II year has the following modifications, which are given in the below table.

II B.Tech (R20)

S.No	R19	R20	Percentage of syllabus content changed
1	Strength of Materials	Mechanics of Solids	17
2	Surveying & Geomatics	Surveying & Geomatics	0
3	Principles of Agronomy & Soil Science	Principles of Agronomy & Soil Science	0
4	Greenhouse Technology	Greenhouse Technology	0
5	Strength of Materials Lab	Strength of Materials Lab	0
6	Surveying Laboratory	Surveying Laboratory	8
7	Principles of Agronomy & Soil Science Lab	Principles of Agronomy & Soil Science Lab	0
8		Geographic Information System	100
9	Numerical Methods, Probability & Statistics	Numerical Methods, Probability & Statistics	0
10	Fluid Mechanics & Hydraulic Machinery	Fluid Mechanics & Hydraulic Machinery	0
11	Farm Machinery & Equipment-I	Farm Machinery & Equipment-I	0
12	Fluid Mechanics & Hydraulic Machinery Lab	Fluid Mechanics & Hydraulic Machinery Lab	0
13	Farm Machinery & Equipment-I Lab	Farm Machinery & Equipment-I Lab	0
14		Managerial Economics and Financial Analysis	100
15	Computer Aided Machine Drawing lab	Computer Aided Machine Drawing lab	0
16		Heat & Mass Transfer	100
17		Theory of Machines	100
18		Computer Aided Modelling Lab-I	100
19		Human Values and Professional Ethics	100

Consolidated Sheet

Course	Total Courses	Percentage of Syllabus changed
II Year B.Tech AGE	19	32.89

B. Course Relevance

The courses that come under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S No	Name of the Subject	CourseCode	Relevance
1	Heat & Mass Transfer	20ME0315	Employability
2	Mechanics of Solids	20CE0164	Employability
3	Surveying & Geomatics	20CE0104	Employability
4	Principles of Agronomy & Soil Science	20AG0701	Employability
5	Greenhouse Technology	20AG0702	Employability
6	Strength of Materials Lab	20CE0106	Employability
7	Surveying Laboratory	20CE0107	Employability
8	Principles of Agronomy & Soil Science Lab	20AG0703	Employability
9	Geographic Information System	20CE0110	Employability
10	Human Values and Professional Ethics	20HS0864	Employability
11	Fluid Mechanics & Hydraulic Machinery	20CE0160	Employability
12	Theory of Machines	20ME0310	Employability
13	Farm Machinery & Equipment-I	20AG0704	Employability
14	Managerial Economics and Financial Analysis	20HS0812	Employability
15	Fluid Mechanics & Hydraulic Machinery Lab	20CE0112	Employability
16	Farm Machinery & Equipment-I Lab	20AG0705	Employability
17	Computer Aided Machine Drawing lab	20ME0311	Employability
18	Computer Aided Modeling Lab- I	20ME0366	Employability

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda:2

Approval of course structure & syllabi for III-Year UG in Agricultural Engineering w.e.f., A.Y.2021-22.

Resolution:2

After detailed discussion, the BoS resolved to approve the course structure for III year UG Agricultural Engineering (given in **Annexure -I**) applicable from the A.Y.2021-22.

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabi framed for the III year B. Tech I & II-Semesters (given in **Annexure-II**).

With reference to the R18 regulations, the new regulation (R19) syllabus for III year has the following modifications, which are given in the below table.

III B.Tech (R19)

S.No	R18	R19	Percentage of syllabus content changed
1	Theory of Machines	Theory of Machines	0
2	Soil Mechanics	Soil Mechanics	0
3	Agricultural Process Engineering	Agricultural Process Engineering	0
4	Farm machinery and Equipment-II	Farm machinery & Equipment-II	0
5	Non-Conventional Energy Resources	Non-Conventional Energy Resources	0
6	Soil Mechanics Lab	Soil Mechanics Lab	0
7	Farm machinery and Equipment-II Lab	Farm machinery & Equipment-II Lab	0
8	Agricultural Process Engineering Lab	Agricultural Process Engineering Lab	0
9	Dairy & Food Engineering	Dairy & Food Engineering	0
10	English for Corporate Communication Skills Lab	English for Corporate Communication Skills Lab	0
11		Human Values and Professional Ethics	100
12		Entrepreneurship Development	100
13		Soil and Water Conservation	100

		Engineering	
14		Construction Project Management	100
15		Neural Networks and Fuzzy Logic	100
16		Mechatronics & Robotics	100
17		MATLAB Programming	100
18		Introduction to Cyber Security	100
19		Strategic Management	100
20		Dairy & Food Engineering Lab	100
21		Soil and Water Conservation Engineering Lab	100
22		Agricultural Engineering (Virtual Lab)	100
23		Heat & Mass Transfer	100

Consolidated Sheet

Course	Total Courses	Percentage of Syllabus changed
III Year B.Tech AGE	23	56.52

B. Course Relevance

The courses that come under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S.No	Subject	Course Code	Relevance
1	Heat & Mass Transfer	19ME0319	Employability
2	Soil Mechanics	19CE0152	Employability
3	Farm machinery & Equipment-II	19AG0706	Employability
4	Agricultural Process Engineering	19AG0707	Employability
5	Elements of Road Traffic Safety	19CE0129	Employability
6	Electrical Energy Conservation and Auditing	19EE0226	Employability
7	Non-Conventional Energy Resources	19ME0321	Employability
8	Introduction to IOT	19EC0450	Employability
9	Software Development & Testing	19CS0545	Employability
10	Business Ethics	19HS0861	Employability
11	Soil Mechanics Lab	19CE0153	Employability
12	Farm machinery & Equipment-II Lab	19AG0708	Employability
13	Agricultural Process Engineering Lab	19AG0709	Employability
14	Human Values and Professional Ethics	19HS0858	Employability

15	Entrepreneurship Development	19HS0815	Employability
16	Theory of Machines	19ME0307	Employability
17	Dairy & Food Engineering	19AG0710	Employability
18	Soil and Water Conservation Engineering	19AG0711	Employability
19	Construction Project Management	19CE0124	Employability
20	Neural Networks and Fuzzy Logic	19EE0231	Employability
21	Mechatronics & Robotics	19ME0337	Employability
22	MATLAB Programming	19EC0451	Employability
23	Introduction to Cyber Security	19CS0546	Employability
24	Strategic Management	19HS0862	Employability
25	Dairy & Food Engineering Lab	19AG0712	Employability
26	Soil and Water Conservation Engineering Lab	19AG0713	Employability
27	Agricultural Engineering (Virtual Lab)	19AG0714	Employability
28	English for Corporate Communication Skills Lab	19HS0859	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Acenda:3

Approval of course structure & syllabi for IV-Year UG in Agricultural Engineering w.e.f., A.Y.2021-22.

Resolution:3

After detailed discussion, the BoS resolved to approve the course structure for IV year UG Agricultural Engineering (given in **Annexure -I**) applicable from the A.Y.2021-22.

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabi framed for the IV year B. Tech I & II-Semesters (given in **Annexure-II**).

A. Course & Syllabus Comparison

With reference to the R16 regulations, the new regulation (R18) syllabus for IV year has the following modifications, which are given in the below table.

IV B.Tech (R18)

S.No	R16	R18	Percentage of syllabus content changed
1	Greenhouse Technology	Greenhouse Technology	0
2	Information Technology for Land and Water Management	Information Technology for Land and Water Management	0
3	Entrepreneurship Development	Entrepreneurship Development	0
4	Remote Sensing and GIS Application	Remote sensing & GIS Applications in Agricultural Engineering Lab	0
5	MOOC courses-offered by SWAYAM/NPTEL/NISTE-suggested by the department (online courses)	MOOC-I	0
6	Project Work	Project Phase-II	0
7		Supply Chain Management	100
8		Food Processing Plant Design and Layout	100
9		Food Packaging Technology	100
10		Food Quality and Control	100
11		Tractor Systems & Controls	100
12		Design of Agricultural Machinery	100
13		Precision Agriculture and System Management	100
14		Watershed Development	100
15		Soil and Water Conservation Engineering	100
16		Project Planning and Control	100
17		Solar Photovoltaic Systems	100
18		Computer Aided Process Planning	100
19		MATLAB Programming	100
20		Software Development & Testing	100
21		MOOC-II	100
22		Comprehensive Viva Voce	100

Consolidated Sheet

Course	Total Courses	Percentage of Syllabus changed
IV Year B.Tech AGE	22	72.72

B. Course Relevance

The courses that come under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

S No.	Subject	Course Code	Relevance
1	Supply Chain Management	18HS0860	Employability
2	Greenhouse Technology	18AG0721	Employability
3	Food Processing Plant Design and Layout	18AG0722	Employability
4	Food Packaging Technology	18AG0723	Employability
5	Food Quality and Control	18AG0724	Employability
6	Tractor Systems & Controls	18AG0725	Employability
7	Design of Agricultural Machinery	18AG0726	Employability
8	Precision Agriculture and System Management	18AG0727	Employability
9	Information Technology for Land and Water Management	18AG0728	Employability
10	Watershed Development	18AG0729	Employability
11	Soil and Water Conservation Engineering	18AG0730	Employability
12	Project Planning and Control	18CE0146	Employability
13	Solar Photovoltaic Systems	18EE0236	Employability
14	Computer Aided Process Planning	18ME0353	Employability
15	MATLAB Programming	18EC0450	Employability
16	Software Development & Testing	18CS0544	Employability
17	Entrepreneurship Development	18HS0815	Employability
18	Remote sensing & GIS Applications in Agricultural Engineering Lab	18AG0713	Employability
19	Agricultural Engineering Lab (Virtual Lab)	18AG0714	Employability
20	Project Phase-I	18AG0716	Employability
21	MOOC-I		Employability
22	MOOC-II		Employability
23	Project Phase-II	18AG0717	Employability
24	Comprehensive Viva Voce	18AG0731	Employability

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda:4

Approval of Panel of question paper setters & panel of examiners w.e.f., 2021-22

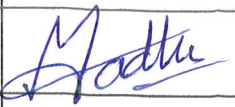

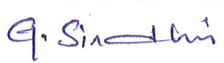

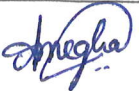
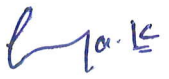



Resolution:4

Approved the panel question paper setting (given in **Annexure-III**) to be submitted to the college academic council for approval.

Approved the panel of examiners prepared for valuation (given in **Annexure -IV**) to be submitted to the college academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BoS. The meeting was concluded with vote of Thanks proposed by the Chairman-BoS.

Members Present

S.No.	Name of the Member	Designation/Organization	Role in the BOS	Signature
1	Dr. Bogala Madhu	Assistant Professor & H.O.D. – SIETK	Chairman	
2	Dr. Shashikumar	Assistant Professor Agricultural Engineering-SIETK	Member	
3	Mrs. G. Sindhuri	Assistant Professor Agricultural Engineering-SIETK	Member	
4	Miss. G. Prameela	Assistant Professor Agricultural Engineering-SIETK	Member	
5	Miss Megha	Assistant Professor Agricultural Engineering-SIETK	Member	
6	Miss Soumya K Kulkarni	Assistant Professor Agricultural Engineering-SIETK	Member	
7	Dr. C.Ramana	Principal Scientist &University Head(FMPE) Regional Agricultural Research Station (RARS), ANGRAU, Tirupathi-517502 Chittoor Dt. A.P Ph:9440914961 Email:ramana1963@rediffmail.com	Member	
8	Dr. S. Kaleemullah	Principal Scientist & Head, Post- Harvest Engineering & Technology, Regional Agricultural Research Station, ANGRAU,Tirupati-517502 Ph:9440181098 Email:drkaleems@yahoo.co.in	Member	
9	Dr. K. Madhusudhana Reddy	Associate Professor Department of (SOWE) S.V. Agricultural College, Tirupathi-517502 Chittoor Dt. A.P Ph: 8897892827 Email: madhu.karakala@gmail.com	Member	
10	Mrs. K Lakshmi Devi	Assistant Director of Agriculture, Kadapa Ph: 8886613450 Email:kondurulakshmidewi@gmail.com	Member	