

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

5th BOS Meeting of Agricultural Engineering (AG ENGG)

Date: 28-08-2020

The 5th meeting of Board of Studies (BOS) in Agricultural Engineering is held on 28 Aug, 2020 at 10.00 AM through online Zoom Platform in the Department of Agricultural Engineering, Siddharth Institute of Engineering and 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.

Mrs. Ch. Wagdevi, Chairman BOS chaired the meeting and welcomed all the members to the Fifth BOS meeting and discussed about the following agenda

Agenda:

1. To discuss Course Structure for II & III year B.Tech. Under R19 & R18 Regulation
2. To discuss Syllabus for II & III year B.Tech. Under R19 & R18 Regulation
3. To discuss Question paper setters
4. To discuss panels of examiners
5. Any other item

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 for II&III- year UG in Agricultural Engineering w.e.f., A.Y.

2020-21

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. 2020-21.

Agenda: 2

Approval of syllabi for II&III-year UG in Agricultural Engineering w.e.f., A.Y. 2020-21

Resolution: 2

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&III - 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 III year has the following modifications, which are given in the below table.

III B.Tech (R18)

S. No	R16	R18	Percentage of syllabus content changed
1	Agricultural Process Engineering	Agricultural Process Engineering	60
2	Irrigation and Drainage Engineering	Irrigation & Drainage Engineering	10
3	Farm Machinery and Equipment-I	Farm machinery and Equipment-I	0
4	Engineering Thermodynamics	Thermodynamics & Heat Engines	0
5	Irrigation and Drainage Engineering Lab	Irrigation & Drainage Engineering Lab	0
6	Aptitude Practice-I	Aptitude Practices	0
7	Environmental Studies	Environmental Science	0

8	Agro Industry and Bi-Product Utilization	Solid Waste & By-Product Utilization	40
9	Farm Machinery and Renewable Energy Resources	Farm machinery and Equipment-II	20
10	Heat and Mass Transfer	Heat & Mass Transfer	0
11	Farm Machinery and Renewable Energy Resources Lab	Farm machinery and Equipment-II Lab	20
12	Dairy and Food Engineering	Dairy & Food Engineering	20
13	Refrigeration and Air Conditioning	Refrigeration & Air Conditioning	120
14	Elements of Road Traffic Safety	Elements of Road Traffic Safety	0
15	Intellectual property Rights	Intellectual Property Rights	0
16	Non-Conventional Energy Resources	Non-Conventional Energy Resources	0
17	Comprehensive Soft Skills	English for Corporate Communication Skills Lab	10
18	Theory of Machines	Theory of Machines	0
19		Agricultural Process Engineering Lab	100
20		Farm machinery and Equipment-I Lab	100
21		Agricultural Engineering Structures	100
22		Industrial Instrumentation	100
23		Introduction to IOT	100
24		Python Programming	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
AGE B.Tech III Year	24	37.50

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

II B.Tech (R19)

S. No	R18	R19	Percentage of syllabus content changed
1	Strength of Materials	Strength of Materials	20
2	Introduction to Fluid Mechanics	Fluid Mechanics & Hydraulic Machinery	20
3	Fluid Mechanics Lab	Fluid Mechanics &	20

		Hydraulic Machinery Lab	
4	Computer Aided Building Drawing	Computer Aided Machine Drawing lab	20
5	Environmental Science	Environmental Science	0
6	Principles of Soil Science	Principles of Agronomy & Soil Science	60%
7	Surveying & Geomatics	Surveying & Geomatics	0
8	Mechanical Engineering	Fundamentals of Mechanical Engineering	0
9	Thermodynamics & Heat Engines	Engineering Thermodynamics	20%
10	Principles of Soil Science Lab	Principles of Agronomy & Soil Science Lab	50%
11	Surveying Lab – I	Surveying Laboratory	20
12	Essence of Indian Traditional Knowledge	Essence of Indian Traditional Knowledge	
13	Farm machinery and Equipment-I	Farm Machinery & Equipment-I	0%
14	Farm machinery and Equipment-I Lab	Farm Machinery & Equipment-I Lab	0%
15	Industrial Instrumentation	Industrial Instrumentation	0
16	Intellectual Property Rights	Intellectual Property Rights	0
17		Water Technology	100
18		Generation of Energy Through Waste	100
19		Introduction to Communication Systems	100
20		Relational Database Management System	100
21		Management Science	100
22		Strength of Materials Lab	100
23		Numerical Methods, Probability & Statistics	100
24		Fundamentals of Urban Planning	100
25		Mechanical Measurements & Control Systems	100
26		Elements of Embedded Systems	100
27		Java Programming	100
28		Greenhouse Technology	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
AGE B.Tech II Year	28	49.20

B. Course Relevance

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

B.Tech III Year (R18)

S.No	Course Title	Course Code	Relevance
1	Refrigeration & Air Conditioning	18ME0335	Employability
2	Heat & Mass Transfer	18ME0320	Employability
3	Theory of Machines	18ME0310	Employability
4	Non-Conventional Energy Resources	18ME0307	Skill Development
5	English for Corporate Communication Skills Lab	18HS0859	Skill Development
6	Aptitude Practices	18HS0842	Skill Development
7	Industrial Instrumentation	18EE0234	Skill Development
8	Introduction to IOT	18EC0449	Skill Development
9	Python Programming	18CS0517	Skill Development
10	Soil Mechanics Lab	18CE0155	Employability
11	Soil Mechanics	18CE0154	Employability
12	Elements of Road Traffic Safety	18CE0127	Employability
13	Solid Waste & By-Product Utilization	18AG0720	Employability
14	Dairy & Food Engineering	18AG0719	Employability
15	Agricultural Engineering Structures	18AG0718	Employability
16	Farm machinery and Equipment-II Lab	18AG0712	Employability
17	Irrigation & Drainage Engineering Lab	18AG0711	Employability
18	Farm machinery and Equipment-II	18AG0710	Employability
19	Irrigation & Drainage Engineering	18AG0709	Employability
20	Farm machinery and Equipment-I Lab	18AG0708	Employability
21	Agricultural Process Engineering Lab	18AG0707	Employability
22	Farm machinery and Equipment-I	18AG0706	Employability
23	Agricultural Process Engineering	18AG0705	Employability

B.Tech II Year (R19)

S.No	Course Title	Course Code	Relevance
1	Mechanical Measurements & Control Systems	19ME0350	Skill Development
2	Computer Aided Machine Drawing lab	19ME0310	Employability
3	Engineering Thermodynamics	19ME0305	Employability
4	Generation of Energy Through Waste	19EE0238	Employability
5	Industrial Instrumentation	19EE0233	Skill Development

6	Elements of Embedded Systems	19EC0449	Skill Development
7	Introduction to Communication Systems	19EC0448	Skill Development
8	Java Programming	19CS0551	Skill Development
9	Relational Database Management System	19CS0550	Skill Development
10	Fluid Mechanics & Hydraulic Machinery	19CE0151	Employability
11	Fundamentals of Urban Planning	19CE0143	Skill Development
12	Water Technology	19CE0136	Employability
13	Fluid Mechanics & Hydraulic Machinery Lab	19CE0112	Employability
14	Surveying Laboratory	19CE0107	Employability
15	Surveying & Geomatics	19CE0104	Employability
16	Principles of Agronomy & Soil Science Lab	19AG0705	Employability
17	Farm Machinery & Equipment-I Lab	19AG0704	Employability
18	Principles of Agronomy & Soil Science	19AG0703	Employability
19	Farm Machinery & Equipment-I	19AG0702	Employability
20	Greenhouse Technology	19AG0701	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: 3

Approval of panel of question paper setter's w.e.f., 2020-21

Resolution: 3

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

The above were discussed, debated and the necessary approval as accorded by the BOS

Agenda: 4

Approval of panel of Examiners w.e.f., 2020-21

Resolution: 4

Approval 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 chairman, BOS.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

Department of Agricultural Engineering

S. No.	Name of the Member	Academic/Industry Position	Designation	Category of Nomination
1	Mrs. Ch. Wagdevi	Assistant Professor & H.O.D. – SIETK	Chairman	Head of the Department
2	Mr. Dr. Shashikumar	Assistant Professor Agricultural Engineering-SIETK	Member	Faculty Members
3	Miss. Tipperudramma. N	Assistant Professor Agricultural Engineering-SIETK	Member	
4	Mr. B. Madhu	Assistant Professor Agricultural Engineering-SIETK	Member	
5	Miss. G. Pameela	Assistant Professor Agricultural Engineering-SIETK	Member	
6.	Mr. M. Vinayak	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	Experts from Academics
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	Expert Nominated by Vice - Chancellor
10	Mrs.K Lakshmi Devi	Mandal Agricultural Officer, Puttur Ph:8886612597 Email:kondurulakshmidewi@gmail.com	Member	Expert from Industry

2020-2021

Members Present

S.No.	Name of the Member	Designation/Organization	Role in the BOS	Signature
1	Mrs. Ch. Wagdevi	Assistant Professor & H.O.D. – SIETK	Chairman	<i>Ch. Wagdevi</i>
2	Mr. Dr. Shashikumar	Assistant Professor Agricultural Engineering-SIETK	Member	<i>Shashikumar</i>
3	Miss. Tipperudramma. N	Assistant Professor Agricultural Engineering-SIETK	Member	<i>Tipperudramma</i>
4	Mr. B. Madhu	Assistant Professor Agricultural Engineering-SIETK	Member	<i>B. Madhu</i>
5	Miss. G. Pameela	Assistant Professor Agricultural Engineering-SIETK	Member	<i>G. Pameela</i>
6	Mr. M. Vinayak	Assistant Professor Agricultural Engineering-SIETK	Member	<i>M. Vinayak</i> 28.8.2020
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	<i>C. Ramana</i> 28.8.20
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	<i>S. Kaleemullah</i> 28/8/2020
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	<i>Dr. K. Madhusudhana Reddy</i> 28.8.2020
10	Mrs. K Lakshmi Devi	Mandal Agricultural Officer, Puttur Ph:8886612597 Email:kondurulakshmidevi@gmail.com	Member	<i>K. Lakshmi Devi</i> 28/8/2020