



# **SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY**

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu)

(Accredited by NBA for Civil, EEE, Mech., ECE & CSE

Accredited by NAAC with 'A' Grade)

Puttur -517583, Chittoor District, A.P. (India)

## **DEPARTMENT OF AGRICULTURAL ENGINEERING**

### **BOARD OF STUDIES MINUTES OF MEETING**

<b>S. No</b>	<b>Date</b>	<b>BOARD OF STUDIES MINUTES OF MEETING</b>	<b>PageNo.</b>
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2	18-06-2018	02	06-11
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4	14-08-2019	04	18-23
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**1<sup>ST</sup> BOS Meetings of Agricultural Engineering (AGE)**

Date: 11-06-2017

The 1<sup>st</sup> meeting of Board of Studies (BOS) in Agricultural Engineering is held on 11<sup>th</sup> June, 2017 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.

Mr. Y. Guru Prasad, Chairman BOS chaired the meeting and welcomed all the members to the first BOS meeting and discussed about the following agenda

**Agenda:**

1. Approval of course structure for UG in AG w.e.f., A.Y.2017-18.
2. Approval of syllabus for I & II year UG in AG w.e.f., A.Y.2017-18.
3. Approval of Panel of Question Paper setters.
4. Approval of Panel 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 UG in AG w.e.f., A.Y.2017-18.

**Resolution: 1**

After detailed discussion, the BOS resolved to approve the course structure for I & II year UG (given in **Annexure -I**) applicable from the A.Y.2017-18.

**Agenda: 2**

Approval of syllabus for I & II year UG in AG w.e.f., A.Y.2017-18.

**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 I and II-year B. Tech I & II-Semesters (given in **Annexure-II**).

**Course Relevance**

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

S.No	Course Title	Course Code	Relevance
1	Engineering Graphics	16ME302	Skill Development
2	Engineering & IT Workshop Lab	16ME301	Skill Development
3	Professional English	16HS610	Skill Development
4	English Language and Communication Skills Lab	16HS607	Skill Development
5	Human Values and Professional Ethics	16HS606	Skill Development
6	Functional English	16HS601	Skill Development
7	Computer Programming Lab	16CS502	Skill Development
8	Computer Programming	16CS501	Skill Development
9	Tractor and Automotive Engines	16ME345	Employability
10	Theory of Machines	16ME344	Employability
11	Comprehensive Soft Skills	16HS614	Skill Development
12	Data Structures Through C	16CS503	Skill Development
13	Surveying Lab	16CE157	Employability
14	Hydrology	16CE156	Employability
15	Fluid Mechanics & Hydraulic Machinery Lab	16CE116	Employability
16	Fluid Mechanics & Hydraulic Machinery	16CE112	Employability

17	Surveying	16CE105	Employability
18	Agricultural Process Engineering	16AG704	Employability
19	Agronomy and Soil Science Lab	16AG703	Employability
20	Principles of Agronomy and Soil Science	16AG702	Employability
21	Engineering Properties of Biological Materials	16AG701	Employability

**Agenda: 3**

Approval of Panel of question paper setters

**Resolution: 3**

Approved the panel of question paper setters (given in **Annexure -III**) 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.

**Agenda: 4**

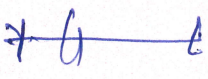



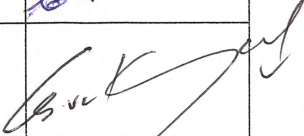
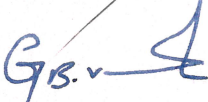


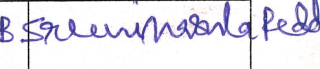
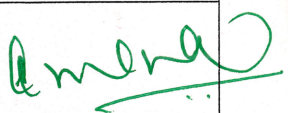

Approval of Panel of examiners

**Resolution: 4**

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	Mr. Y. Guru Prasad	Associate Professor & H.O.D. – SIETK	Chairman	
2	Dr. K. Chandrasekhar Reddy	Professor of Civil Engineering & Principal – SIETK	Member	
3	Dr.S.Sunil Kumar Reddy	Professor- SIETK Mechanical Engineering	Member	
4	Dr.C.Prabhu Rama Krishna	Professor- SIETK Mechanical Engineering	Member	
5	Mr. C. Siva Kumar Prasad	Associate Professor – SIETK Civil Engineering	Member	
6	Mr. Vinodh Kumar Balaji	Assistant Professor- SIETK Civil Engineering	Member	
7	Mr. M. Pratap Reddy	Assistant Professor- SIETK Civil Engineering	Member	
8	Dr. S. Kaleemullah	Associate Dean, College of Food Science & Technology, Pulivendula, Kadapa..	Member	
9	Dr. B. Sreenivasula Reddy	Assistant Professor, Department of Agricultural Engineering, SV Agricultural College, ANGRAU,	Member	
10	Dr. C. Ramana	Associate Dean & University Head(FMP), College of Agricultural Engineering,	Member	
11	Mrs. K. Lakshmi Devi	Mandal Agricultural Officer, Puttur	Member	

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**(AUTONOMOUS)**

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**2<sup>nd</sup> BOS Meeting of Agricultural Engineering (AG ENGG)**

Date: 18-06-2018

The 2<sup>nd</sup> meeting of Board of Studies (BOS) in Agricultural Engineering is held on 18 June, 2018 at 02.00 PM 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.**

Mr. Y. Guru Prasad, Chairman BOS chaired the meeting and welcomed all the members to the second BOS meeting and discussed about the following agenda

**Agenda:**

1. Approval of course structure for I & II year in Agricultural Engineering w.e.f., A.Y.2018-19.
2. Approval of syllabus for I & II year UG in Agricultural Engineering w.e.f., A.Y.2018-19.
3. Approval of panel of Question paper setters.
4. Approval of panel 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 I & II- year UG in Agricultural Engineering w.e.f., A.Y. 2018-19

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for I & II- year UG (Agricultural Engineering) (Given in **Annexure-I**) applicable from the A.Y.2018-19.

**Agenda: 2**

Approval of syllabi for I & II-year UG in Agricultural Engineering w.e.f., A.Y.2018-19

**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 I & II- 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 I & II year has the following modifications, which are given in the below table.

**I B.Tech**

S. No	R16	R18	Percentage of syllabus content changed
1	Functional English	English	0
2	Engineering Mathematics-I	Mathematics – I	0
3	Engineering Physics	Physics	20
4	Computer Programming	Programming for problem solving	24
5	Engineering Physics Lab	Physics Lab	0
6	Computer Programming Lab	Programming for problem solving Lab	24
7	Engineering & IT Workshop Lab	Workshop practice lab	0
8	Engineering Mathematics-II	Mathematics – II	0
9	Engineering Chemistry	Chemistry	40

10	Engineering Graphics	Engineering Graphics & Design	0
11	Engineering Mechanics	Engineering Mechanics	20
12	English Language and Communication Skills Lab	English Lab	0
13	Engineering Chemistry Lab	Chemistry Lab	40
14	Basic Electrical & Electronics Engineering	Basic Electrical and Electronics Engineering	0
15		India Constitution	100
16		Induction Program (3 weeks)	100

## II B.Tech

S. No	R16	R18	Percentage of syllabus content changed
1	Engineering Mathematics-III	Transform & Discrete Mathematics	0
2	Strength of Materials	Strength of Materials	0
3	Fluid Mechanics & Hydraulic Machinery	Introduction to Fluid Mechanics	0
4	Soil Science & Mechanics	Soil Mechanics	20
5	Strength of Materials / Soil Mechanics Lab	Soil Mechanics Lab	0
6	Fluid Mechanics & Hydraulic Machinery Lab	Fluid Mechanics Lab	0
7	Principles of Agronomy and Soil Science	Principles of Soil Science	60
8	Hydrology	Hydrology, Ground Water & Well Engineering	100
9	Surveying	Surveying & Geomatics	0
10	Surveying Lab	Surveying Lab – I	0
11	Agronomy and Soil Science Lab	Principles of Soil Science Lab	50
12	Comprehensive Online Examination-I	Comprehensive Online Examination-I	0
13		Biology for Engineers	100
14		Principles of Agricultural Engineering	100
15		Solid Mechanics Lab	100
16		Computer Aided Building Drawing	100
17		Mechanical Engineering	100
18		Essence of Indian Traditional Knowledge	100



## Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
AGE B.Tech I Year	16	23
AGE B.Tech II Year	18	46.11
<b>Total</b>	<b>34</b>	<b>35.23</b>

**B. Course Relevance**

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

S.No	Course Title	Course Code	Relevance
1	Thermodynamics & Heat Engines	18ME0350	Employability
2	Mechanical Engineering	18ME0346	Employability
3	Engineering Graphics & Design	18ME0302	Skill Development
4	Workshop practice lab	18ME0301	Skill Development
5	English Lab	18HS0811	Skill Development
6	English	18HS0810	Employability
7	Biology for Engineers	18HS0803	Skill Development
8	Programming for problem solving Lab	18CS0503	Skill Development
9	Programming for problem solving	18CS0501	Employability
10	Surveying Lab – I	18CE0113	Employability
11	Surveying & Geomatics	18CE0109	Skill Development
12	Computer Aided Building Drawing	18CE0107	Employability
13	Fluid Mechanics Lab	18CE0106	Employability
14	Solid Mechanics Lab	18CE0105	Employability
15	Introduction to Fluid Mechanics	18CE0104	Employability
16	Principles of Soil Science Lab	18AG0704	Employability
17	Hydrology, Ground Water & Well Engineering	18AG0703	Employability
18	Principles of Soil Science	18AG0702	Employability
19	Principles of Agricultural Engineering	18AG0701	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., 2018-19

**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



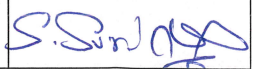

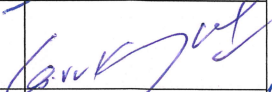
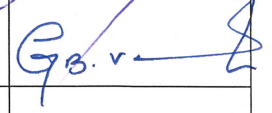
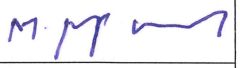

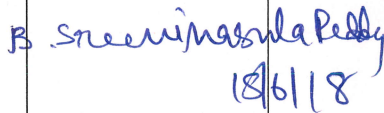

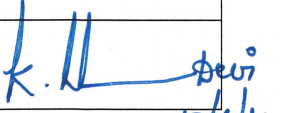
**Agenda: 4**

Approval of panel of Examiners

**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.

## Members Present

S.No.	Name of the member	Designation/Organization	Role in the BOS	Signature
1	Mr. Y. Guru Prasad	Associate Professor & H.O.D. – SIETK	Chairman	
2	Dr. K. Chandrasekhar Reddy	Professor & Principal – SIETK	Member	
3	Dr. S Sunil Kumar Reddy	Professor & Head Mechanical Engineering -SIETK	Member	
4	Dr. C. Prabhu Rama Krishna	Professor-SIETK Mechanical Engineering	Member	
5	Mr. C. Siva Kumar Prasad	Associate Professor & Head Civil Engineering – SIETK	Member	
6	Mr. Vinod Kumar Balaji	Assistant Professor- SIETK Civil Engineering	Member	
7	Mr. M. Pratap Reddy	Assistant Professor- SIETK Civil Engineering	Member	
8	Dr.S. Kaleemullah	Associate Dean, College of Food Science & Technology, Pulivendula, Kadapa, Andhra Pradesh.	Member	
9	Dr. B. Sreenivasula Reddy	Scientist and Head Post-harvest Engineering and Technology Centre Regional Agricultural Research Station S.V. Agricultural College Campus (Acharya N.G. Ranga Agricultural University) Tirupati-517502 Chittoor Dt. Andhra Pradesh	Member	 18/6/18
10	Dr. C. Ramana	Associate Dean & University Head (FMP), College of Agricultural Engineering, ANGRAU Madakasira, Anantapuram.	Member	
11	Mrs. Lakshmi Devi	Mandal Agricultural officer, Puttur, Chittoor Dt.	Member	 Devi 18/6/18

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**3<sup>rd</sup> BOS Meetings of Agricultural Engineering (AG ENGG)**

Date: 26-12-2018

The 3<sup>rd</sup> meeting of Board of Studies (BOS) in Agricultural Engineering is held on 26<sup>th</sup> December, 2018 at 10.00 AM 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.

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

**Agenda:**

1. Approval of course structure for III & IV year in Agricultural Engineering w.e.f., A.Y.2019-20.
2. Approval of syllabus for III & IV year UG in Agricultural Engineering w.e.f., A.Y.2019-20.
3. Approval of Panel of Question Paper setters.
4. Approval of Panel 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 III & IV-year UG in Agricultural Engineering w.e.f., A.Y.2019-20.

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for III & IV year UG (Agricultural Engineering) (Given in **Annexure -I**) applicable from the A.Y. 2019-20.

**Agenda: 2**

Approval of syllabus for III & IV-year UG in Agricultural Engineering w.e.f., A.Y. 2019-20.

**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 III and IV-year B. Tech I & II-Semesters (given in **Annexure-II**).

S.No	Course Title	Course Code	Relevance
1	Heat and Mass Transfer	16ME343	Employability
2	Computer Aided Engineering Lab	16ME331	Skill Development
3	Engineering Thermodynamics	16ME307	Employability
4	Aptitude Practice-II	16HS617	Skill Development
5	Aptitude Practice-I	16HS616	Skill Development
6	Workshop Technology Lab	16AG715	Skill Development
7	Farm Machinery and Renewable Energy Resources Lab	16AG714	Employability
8	Tractor Systems and Control	16AG713	Employability
9	Farm Machinery and Renewable Energy Resources	16AG712	Employability
10	Agro Industry and Bi-Product Utilization	16AG711	Employability
11	Irrigation and Drainage Engineering Lab	16AG710	Employability
12	Soil and Water Conservation Engineering Lab	16AG709	Employability
13	Design of Agricultural Machinery	16AG708	Employability
14	Farm Machinery and Equipment-I	16AG707	Employability
15	Irrigation and Drainage Engineering	16AG706	Employability
16	Soil and Water Conservation Engineering	16AG705	Employability

17	Refrigeration and Air Conditioning	16ME325	Employability
18	Thermal Engineering Lab	16ME317	Employability
19	Non-Conventional Energy Resources	16ME313	Employability
20	Entrepreneurship Development	16MB751	Entrepreneurship
21	Managerial Economics and Financial Analysis	16MB750	Entrepreneurship
22	Intellectual property Rights	16MB732	Skill Development
23	Neural Networks & Fuzzy Logic	16EE239	Skill Development
24	Mat lab Programming	16EC443	Skill Development
25	Data Base Management Systems	16CS511	Skill Development
26	Elements of Road Traffic Safety	16CE145	Skill Development
27	Water Resources Systems Planning & Management	16AG725	Employability
28	Operations Research	16AG724	Entrepreneurship
29	Ground Water Hydrology-Wells and Pumps	16AG723	Employability
30	Food Processing Plant Design and Layout	16AG722	Employability
31	Field Operation and Maintenance of Tractors and Farm Machinery Lab	16AG721	Employability
32	Remote Sensing and GIS Application	16AG720	Skill Development
33	Tractor Design and Testing	16AG719	Employability
34	Micro Irrigation Engineering	16AG718	Employability
35	Greenhouse Technology	16AG717	Employability
36	Dairy and Food Engineering	16AG716	Employability

**Agenda: 3**

Approval of Panel of question paper setters w.e.f., 2019-20

**Resolution: 3**

Approved the panel of question paper setting (given in **Annexure -III**) 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.

**Agenda: 4**

Approval of Panel of examiners

**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.

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.

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**

**Department of Agricultural Engineering**

**Composition of Board of studies**

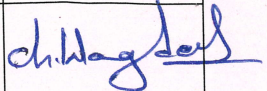
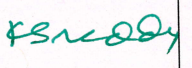
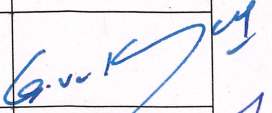

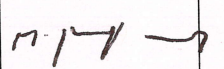
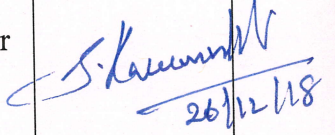
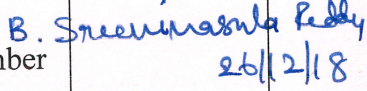
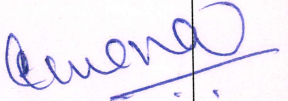
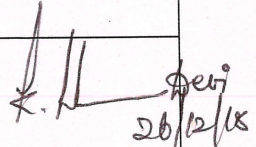
S. No.	Name of the Member	Academic/Industry Position	Designation	Category of Nomination
1	Mrs. Ch. Wagdevi	Assistant Professor & H.O.D. – SIETK	Chairman	Head of the Department
2	Dr. K. Chandrasekhar Reddy	Professor & Principal – SIETK	Member	Faculty Members
3	Mr. C. Siva Kumar Prasad	Associate Professor – SIETK	Member	
4	Mr. Vinodh Kumar Balaji	Assistant Professor- SIETK	Member	
5	Mr. M. Pratap Reddy	Assistant Professor- SIETK	Member	
6	Dr.S.Kaleemullah	Principal Scientist & Head, Post- Harvest Engineering & Technology, Regional Agricultural Research Station, ANGRAU, Tirupati-522101 Ph:9440181098 Email:drkaleems@yahoo.co.in	Member	Experts from Academics
7	Dr. B.Sreenivasula Reddy	Assistant Professor, Department of Process and Food Engineering, College of Agricultural Engineering ANGRAU, Bapatla, Guntur-522101 Ph:9618800819 Email:sreenivasula2007@gmail.com	Member	
8	Dr. C.Ramana	Professor & University Head(FMPE), Dept. of Farm Machinery & Power Engineering, Dr. NTR College of Agricultural Engineering, ANGRAU, Bapatla, Guntur-522101 Ph:7702366113/9440914961 Email:Ramana1963@rediffmail.com	Member	Expert Nominated by Vice - Chancellor
9	Mrs.K Lakshmi Devi	Mandal Agricultural officer, Puttur Ph:8886612597 Email:lakshmi88@gmail.com	Member	Expert from Industry

  
PRINCIPAL

**PRINCIPAL**  
Siddharth Institute of Engineering & Technology  
Siddharth Nagar,  
PUTTUR-517583, Chittoor (Dt).



## 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	
2	Dr. K. Chandrasekhar Reddy	Professor & Principal – SIETK	Member	
3	Mr. C. Siva Kumar Prasad	Associate Professor – SIETK	Member	
4	Mr. Vinodh Kumar Balaji	Assistant Professor- SIETK	Member	
5	Mr. M. Pratap Reddy	Assistant Professor- SIETK	Member	
6	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	 26/12/18
7	Dr. B.Sreenivasula Reddy	Assistant Professor, Department of Process & Food Engineering, College of Agricultural Engineering, ANGRAU, Bapatla, Guntur - 522101 Ph:9618800819 Email:sreenivasula2007@gmail.com	Member	 26/12/18
8	Dr. C. Ramana	Professor & University Head (FMPE), Dept. of Farm Machinery & Power Engineering, Dr. NTR College of Agricultural Engineering, ANGRAU, Bapatla, Guntur – 522101 Ph:7702366113/9440914961	Member	
9	Mrs. K Lakshmi Devi	Mandal Agricultural officer, Puttur Ph:8886612597 Email:lakshmi88@gmail.com	Member	 26/12/18

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

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**4th BOS Meeting of Agricultural Engineering (AG ENGG)**

Date: 14-08-2019

The 4<sup>th</sup> meeting of Board of Studies (BOS) in Agricultural Engineering is held on 14<sup>th</sup> August, 2019 (Wednesday) at 2.00 PM 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.

Mrs. Ch. Wagdevi, Chairman - BOS chaired the meeting and welcomed all the members to the fourth BOS meeting and discussed the following agenda:

**Agenda:**

1. Approval of course structure for I year UG in Agricultural Engineering w.e.f., 2019-2020.
2. Approval of syllabi for I year UG in Agricultural Engineering w.e.f., 2019-2020.
3. Approval of Panel of Question Paper setters.
4. Approval of Panel of Examiners.
5. Any other item with the permission of Chair.

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

**Minutes:**

**Agenda: 1**

Approval of course structure for I year UG in Agricultural Engineering w.e.f., 2019-2020.

**Resolution: 1**

After detailed discussion the BOS resolved to approve the course structure for I year UG (given in **Annexure -I**) applicable from the A.Y.2019-2020.

**Agenda: 2**

Approval of syllabus for I year UG in Agricultural Engineering w.e.f., 2019-2020.

**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 I Year B.Tech I & II-Semesters (given in **Annexure-II**).

**A. Course & Syllabus Comparison**

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

**I B.Tech**

S. No	R18	R19	Percentage of syllabus content changed
1	Physics	Engineering Physics	0
2	Mathematics – I	Algebra and Calculus	60
3	Programming for problem solving	Python Programming	100
4	Engineering Mechanics	Engineering Mechanics	0
5	Physics Lab	Engineering Physics Lab	0
6	Programming for problem solving Lab	Python Programming Lab	100

7	Workshop practice lab	Workshop practice lab	0
8	Chemistry	Engineering Chemistry	40
9	Mathematics – II	Differential Equations and Vector Calculus	60
10	Basic Electrical and Electronics Engineering	Basic Electrical and Electronics Engineering	0
11	English	Communicative English	10
12	Engineering Graphics & Design	Engineering Graphics	0
13	Chemistry Lab	Engineering Chemistry Lab	0
14	English Lab	Communicative English Lab	0
15	India Constitution	Indian Constitution	0

### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
AGE B.Tech I Year	15	24.66

### B. Course Relevance

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

S.No	Course Title	Course Code	Relevance
1	Engineering Graphics	19ME0302	Skill Development
2	Workshop practice lab	19ME0301	Skill Development
3	Management Science	19HS0813	Entrepreneurship
4	Communicative English Lab	19HS0811	Skill Development
5	Communicative English	19HS0810	Skill Development
6	Python Programming Lab	19CS0502	Skill Development
7	Python Programming	19CS0501	Skill Development
8	Engineering Mechanics	19CE0101	Skill Development
9	Basic Electrical and Electronics Engineering	19EE0240	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.

**Agenda:3**

Approval of Panel of question paper setters

**Resolution: 3**

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

**Agenda: 4**

Approval of Panel of examiners

**Resolution: 4**

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

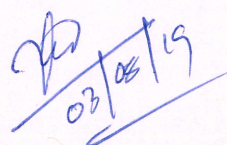
The above items were discussed, debated and the necessary approval was accorded by the BOS. The meeting was concluded with vote of Thanks proposed by the Chairman-BOS.

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**

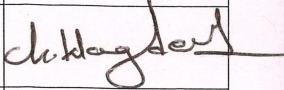
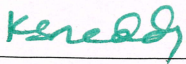
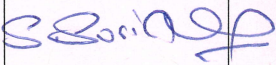
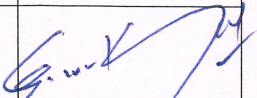
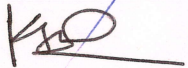
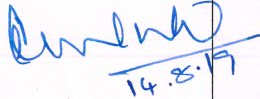
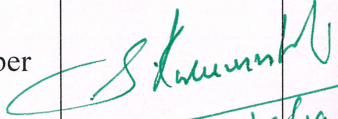
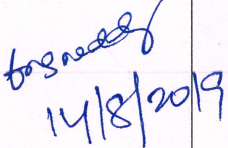
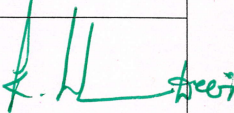
**Department of Agricultural Engineering**

**Composition of Board of studies (for 3 years w.e.f. 09.07.2019)**

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	Dr. K. Chandrasekhar Reddy	Professor & Principal - SIETK	Member	Faculty Members
3	Dr. S. Sunil Kumar Reddy	Professor & Head Mechanical Engineering - SIETK	Member	
4	Dr. C. Prabhu Rama Krishna	Professor Mechanical Engineering - SIETK	Member	
5	Mr. C. Siva Kumar Prasad	Associate Professor & Head Civil Engineering – SIETK	Member	
6.	Mr. Keshavalu	Assistant Professor Agricultural Engineering-SIETK	Member	
7	Dr. C. Ramana	Professor & University Head(FMPE), Dept. of Farm Machinery & Power Engineering, Dr. NTR College of Agricultural Engineering, ANGRAU, Bapatla, Guntur-522101 Ph:7702366113/9440914961 Email:Ramana1963@rediffmail.co	Member	Experts from Academics
8	Dr. S. Kaleemullah	Principal Scientist & Head, Post – Harvest Engineering and 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:lakshmi88@gmail.com	Member	Expert from Industry

  
03/08/19

## Members Present

S. No	Member Name	Designation/ Organization	Role of BoS	Signature
1	Mrs. Ch. Wagdevi	Assistant Professor & HOD – SIETK	Chairman	
2	Dr. K. Chandrasekhar Reddy	Professor & Principal – SIETK	Member	
3	Dr. S. Sunil Kumar Reddy	Professor & Head Mechanical Engineering - SIETK	Member	
4	Dr. C. Prabhu Rama Krishna	Professor Mechanical Engineering - SIETK	Member	ABSENT
5	Mr. C. Siva Kumar Prasad	Associate Professor & Head Civil Engineering – SIETK	Member	
6.	Keshavalu	Assistant Professor Agricultural Engineering-SIETK	Member	
7	Dr. C. Ramana	Professor & University Head (FMPE), Dept. of Farm Machinery & Power Engineering, Dr. NTR College of Agricultural Engineering, ANGRAU, Bapatla, Guntur-522101 Ph:7702366113/9440914961 Email:Ramana1963@rediffmail.com	Member	 14.8.19
8	Dr. S. Kaleemullah	Principal Scientist & Head, Post-Harvest Engineering and Technology, Regional Agricultural Research Station, ANGRAU, Tirupathi-517502 Ph: 9440181098 Email : drkaleems@yahoo.co.in	Member	 14/8/19
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	 14/8/2019
10	Mrs. K Lakshmi Devi	Mandal Agricultural officer, Puttur Ph:8886612597 Email:lakshmi88@gmail.com	Member	

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

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**5<sup>th</sup> BOS Meeting of Agricultural Engineering (AG ENGG)**

Date: 28-08-2020

The 5<sup>th</sup> 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. Prameela	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:kondurulakshmidevi@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. Prameela	Assistant Professor Agricultural Engineering-SIETK	Member	<i>G. Prameela</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>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

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

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**6<sup>th</sup> BOS Meeting of Agricultural Engineering (AG ENGG)**

Date: 19-01-2021

The 6<sup>th</sup> meeting of Board of Studies (BOS) in Agricultural Engineering is held on 19 Jan, 2020 at 10.30 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.**

Dr. Bogala Madhu, Chairman BOS chaired the meeting and welcomed all the members to the Sixth BOS meeting and discussed about the following agenda:

**Agenda:**

1. To discuss and frame the syllabi for I year B.Tech. Under R20 Regulation
2. To prepare the panel of examiners and paper setters for I B.Tech that comes under R20.
3. 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 & syllabi for I- 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 I- year UG (Agricultural Engineering) (Given in **Annexure-I**) applicable from the A.Y. 2020-21.



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 I-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 I<sup>st</sup> year has the following modifications, which are given in the below table.

#### I B.Tech

S. No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Engineering Physics	Engineering Physics	20
2	Algebra and Calculus	Algebra and Calculus	30
3	Communicative English	Communicative English	0
4	Engineering Mechanics	Engineering Mechanics	60
5	Engineering Physics Lab	Engineering Physics Lab	20
6	Communicative English Lab	Communicative English Lab	0
7	Workshop practice lab	Workshop practice lab	0
8	Engineering Chemistry	Engineering Chemistry	20
9	Differential Equations and Vector Calculus	Differential Equations and Complex Analysis	40
10	Basic Electrical and Electronics Engineering	Basic Electrical & Mechanical Engineering	0
11	Engineering Graphics	Engineering Graphics	0
12	Engineering Chemistry Lab	Engineering Chemistry Lab	10
13	Indian Constitution	Indian Constitution	0
14	Basic Thermodynamics	Basic Thermodynamics	0
15		C Programming and Data Structures	100
16		Basic Electrical & Mechanical Engineering Lab	100
17		C Programming and Data Structures Lab	100

#### Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
AGE B.Tech I Year	17	29.42

**B. Course Relevance**

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

S.No	Course Title	Course Code	Relevance
1	Basic Thermodynamics	20ME0303	Employability
2	Workshop practice lab	20ME0302	Skill Development
3	Engineering Graphics	20ME0301	Skill Development
4	Communicative English Lab	20HS0811	Skill Development
5	Communicative English	20HS0810	Skill Development
6	C Programming and Data Structures Lab	20CS0502	Skill Development
7	C Programming and Data Structures	20CS0501	Skill Development
8	Basic Electrical & Mechanical Engineering	20ME0351	Skill Development
9	Basic Electrical & Mechanical Engineering Lab	20ME0352	Skill Development
10	Indian Constitution	20HS0816	Skill Development
11	Basics of Engineering Mechanics	20CE0163	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.

**Agenda: 2**

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

**Resolution: 2**

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

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  
(ATONOUOUS)**


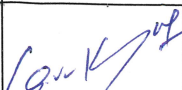
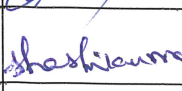
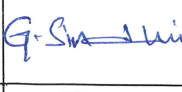
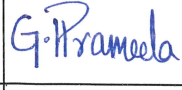
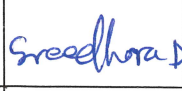

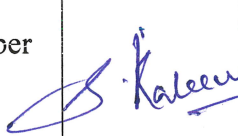
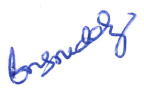
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2020-2021

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