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 MECHANICAL ENGINEERING

BOARD OF STUDIES MINUTES OF MEETING

2016 - 2017

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR (AUTONOMOUS)

1st BoS Meeting of Mechanical Engineering (ME)

Date: 08-07-2016

The 1st meeting of Board of Studies (BOS) in Mechanical Engineering is held on 08 July, 2016 at 1:30 PM in the Department of Mechanical 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. S. Sunil Kumar Reddy, 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 I & II year UG & PG in ME w.e.f., A.Y.2016-17.
2. Approval of syllabus for I & II year UG & PG in ME w.e.f., A.Y.2016-17.
3. Approval of syllabus for the subjects offered to various branches w.e.f. 2016-17.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. Any other items

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 & PG in ME w.e.f., A.Y.2016-17

Resolution: 1

After detailed discussion the BOS resolved to approve the course structure for I & II year UG & PG (ME) (given in **Annexure –I**) applicable from the A.Y.2016-17.

Agenda: 2

Approval of syllabus for I & II year UG & PG in ME w.e.f., A.Y.2016-17

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**)

A. Course & Syllabus Comparison

With reference to the JNTUA R15 regulations, the new regulation (R16) syllabus for I& II year has the following modifications, which are given in the below table.

I B.Tech

S.No	R15 Regulation	R16 Regulation	Percentage of course content changed
1	Functional English	Functional English	20
2	Mathematics – I	Engineering Mathematics-I	0
3	Engineering Physics	Engineering Physics	0
4	Computer Programming	Computer Programming	80
5	Audit course – Social Values & Ethics	Human Values & Professional Ethics	0
6	Engineering Physics Lab	Engineering Physics Lab	0
7	Computer Programming Lab	Computer Programming Lab	0

8	Engineering & IT Workshop	Engineering & IT Workshop Lab	0
9	English for Professional Communication	Professional English	0
10	Mathematics – II	Engineering Mathematics-II	0
11	Engineering Chemistry	Engineering Chemistry	0
12	Engineering Drawing	Engineering Graphics	20
13	Engineering Mechanics	Engineering Mechanics	22
14	English Language and Communication Skills Lab	English Language and Communication Skills Lab	0
15	Engineering Chemistry Lab	Engineering Chemistry Lab	20
16		Applied Mechanics Lab	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech I Year	**16**	**16.37**

II B.Tech

S.No	R15 Regulation	R16 Regulation	Percentage of course content changed
1	Mathematics – III	Engineering Mathematics-III	0
2	Material Science and Engineering	Material Sciences and Metallurgy	10
3	Kinematics of Machines	Kinematics of Machinery	0
4	Machine Drawing	Machine Drawing	0
5	Mechanics of Solids	Strength of Materials	5
6	Fluid Mechanics and Hydraulic Machines	Fluid Mechanics & Hydraulic Machinery	25
7	Mechanics of Solids	Strength of Materials Lab	5

8	Fluid Mechanics and Hydraulic Machines Laboratory	Fluid Mechanics & Hydraulic Machinery Lab	0
9	-	Comprehensive Online Examination-I	100
10	-	Data Structures through C	100
11	Probability and Statistics	Probability & Statistics	0
12	Basic Electrical and Electronics Engineering	Basic Electrical & Electronics Engineering	10
13	Manufacturing Technology	Manufacturing Technology	50
14	Thermodynamics	Engineering Thermodynamics	34
15	Dynamics of Machinery	Dynamics of Machinery	20
16	Manufacturing Technology Laboratory	Manufacturing Technology Lab	0
17		Basic Electrical & Electronics Engineering Lab	100
18	Material Science and Engineering Lab	Material Sciences and Metallurgy Lab	0
19		Comprehensive Online Examination-II	100
20		Comprehensive Soft Skills	

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech II Year	**20**	**27.95**

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I M.Tech [TE]

S.No	R12 Regulation	R16 Regulation	Percentage of course content changed
1	Advanced Thermodynamics	Advanced Thermodynamics	60
2	Advanced Heat & Mass Transfer	Advanced Heat & Mass Transfer	0
3	Turbo Machines	Turbo Machines	0
4	Fuels, Combustion & Environment	Fuels, Combustion & Environment	20
5	FEA in Thermal Engineering	FEA in Thermal Engineering	0
6	Refrigeration & Air Conditioning	Refrigeration & Air Conditioning	0
7	Equipment design for Thermal Systems	Equipment design for Thermal Systems	0
8	Optimization Techniques & its Applications	Optimization Techniques & its Applications	0
9	Advanced Thermal Engineering Lab	Advanced Thermal Engineering Lab	20
10	Energy Management	Energy Management	0
11	Advanced I.C. Engines	Advanced I.C. Engines	0
12	Computational Fluid Dynamics	Computational Fluid Dynamics	20
13	Thermal Measurements and Process Controls	Thermal Measurements and Process Controls	0
14	Alternative Energy Sources	Alternative Energy Sources	0
15	Cryogenics Engineering	Cryogenics Engineering	20
16	Thermal & Nuclear Power Plants	Thermal & Nuclear Power Plants	20

17	Jet Propulsion & Rocketry	Jet Propulsion & Rocketry	0
18	Computational Fluid Dynamics Lab	Computational Fluid Dynamics Lab	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**18**	**8.8**

II M.Tech [TE]

S.No	R12 Regulation	R16 Regulation	Percentage of course content changed
1	Seminar	Seminar	0
2	Project work	Project work	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**2**	**0**

I M.Tech [CAD/CAM]

S.No	R09 Regulation	R16 Regulation	Percentage of course content changed
1	Finite Element Methods	Finite Element Methods	0
2	Computer Integrated Manufacturing	Computer Integrated Manufacturing	0
3	Geometric Modeling	Geometric Modeling	0
4	Advances in Manufacturing Technology	Advances in Manufacturing Technology	0
5	Computational Methods	Computational Methods	0

6	Quality Engineering and Manufacturing	Quality Engineering and Manufacturing	0
7	Computer Aided Process Planning	Computer Aided Process Planning	0
8	Designs For Manufacturing	Designs For Manufacturing	0
9	Modeling and CNC Lab	Modeling and CNC Lab	0
10	Advanced Optimization Techniques	Advanced Optimization Techniques	0
11	Computer Graphics	Computer Graphics	0
12	Robotics	Robotics	20
13	CNC Technology & programming	CNC Technology & programming	0
14	Rapid Prototyping	Rapid Prototyping	0
15	Artificial Intelligence & Expert Systems	Artificial Intelligence & Expert Systems	0
16	Mechanics and Manufacturing methods of Composites	Mechanics and Manufacturing methods of Composites	0
17	Computer Aided Design Lab	Computer Aided Design Lab	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**17**	**1.17**

II M.Tech [CAD/CAM]

S.No	R09 Regulation	R16 Regulation	Percentage of course content changed
1	Seminar	Seminar	0
2	Project work	Project work	0

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Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	2	0

B. Course Relevance

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

B.Tech & M.Tech

S.No	Course Title	Course Code	Relevance
1	Functional English	16HS601	Skill Development
2	Human Values & Professional Ethics	16HS606	Skill Development
3	Computer Programming Lab	16CS502	Skill Development
4	Engineering & IT Workshop Lab	16ME301	Skill Development
5	Professional English	16HS610	Skill Development
6	Engineering Graphics	16ME302	Employability
7	Engineering Mechanics	16CE101	Skill Development
8	English Language and Communication Skills Lab	16HS607	Skill Development
9	Applied Mechanics Lab	16CE102	Skill Development
10	Material Sciences and Metallurgy	16ME303	Employability
11	Kinematics of Machinery	16ME304	Employability
12	Machine Drawing	16ME305	Employability
13	Strength of Materials	16CE104	Employability
14	Fluid Mechanics & Hydraulic Machinery	16CE112	Employability
15	Strength of Materials Lab	16CE109	Skill Development

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16	Fluid Mechanics & Hydraulic Machinery Lab	16CE116	Skill Development
17	Data Structures through C	16CS503	Skill Development
18	Seminar	16ME8819	Skill Development
19	Project work	16ME8820	Skill Development
20	Advanced Thermodynamics	16ME8801	Employability
21	Advanced Heat & Mass Transfer	16ME8802	Employability
22	Turbo Machines	16ME8803	Employability
23	Fuels, Combustion & Environment	16ME8804	Employability
24	FEA in Thermal Engineering	16ME8805	Employability
25	Refrigeration & Air Conditioning	16ME8806	Employability
26	Equipment design for Thermal Systems	16ME8807	Employability
27	Optimization Techniques & its Applications	16ME8808	Employability
28	Advanced Thermal Engineering Lab	16ME8809	Employability
29	Energy Management	16ME8810	Employability
30	Advanced I.C. Engines	16ME8811	Employability
31	Computational Fluid Dynamics	16ME8812	Employability
32	Thermal Measurements and Process Controls	16ME8813	Employability
33	Alternative Energy Sources	16ME8814	Employability
34	Cryogenics Engineering	16ME8815	Employability
35	Thermal & Nuclear Power Plants	16ME8816	Employability
36	Jet Propulsion & Rocketry	16ME8817	Employability
37	Computational Fluid Dynamics Lab	16ME8818	Skill Development
38	Seminar	16ME0419	Skill Development
39	Project work	16ME0420	Skill Development

40	Finite Element Methods	16ME0401	Employability
41	Computer Integrated Manufacturing	16ME0402	Employability
42	Geometric Modeling	16ME0403	Employability
43	Advances in Manufacturing Technology	16ME0404	Employability
44	Computational Methods	16ME0405	Employability
45	Quality Engineering and Manufacturing	16ME0406	Employability
46	Computer Aided Process Planning	16ME0407	Employability
47	Designs For Manufacturing	16ME0408	Employability
48	Modeling and CNC Lab	16ME0409	Skill Development
49	Advanced Optimization Techniques	16ME0410	Employability
50	Computer Graphics	16ME0411	Employability
51	Robotics	16ME0412	Employability
52	CNC Technology & programming	16ME0413	Employability
53	Mechatronics	16ME0414	Employability
54	Rapid Prototyping	16ME0415	Employability
55	Artificial Intelligence & Expert Systems	16ME0416	Employability
56	Mechanics and Manufacturing Methods of Composites	16ME0417	Employability
57	Computer Aided Design Lab	16ME0418	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 syllabus for the subjects offered to various branches w.e.f. 2016-17

Resolution: 3

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BOS resolved to approve the syllabus framed for the subjects offered to various branches (given in **Annexure-III**).

Agenda: 4

Approval of Panel of Question Paper setters

Resolution: 4

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

Agenda: 5

Approval of Panel of Examiners

Resolution: 5

Approved the panel of examiners prepared for valuation (given in **Annexure –V**) 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 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. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2	Dr. C. Prabhu Rama Krishnan	Professor-SIETK	Member	
3	Dr. D. Subramanyam	Professor-SIETK	Member	
4	Dr. C.Sreedhar	Professor-SIETK	Member	
5	Mr. F. Ananda Raju	Professor-SIETK	Member	
6	Dr. BVSSS Prasad	Professor & Head, IIT, Madras, Chennai	Member	
7	Dr. M. Nageswara Rao	Professor &Dean, VIT University, Vellore Campus	Member	
8	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	
9	Mr. N. Sudarsan Reddy	General Manager(Admin), NELCAST, Industrial Estate, Gudur, Nellore Dist.	Member	
10	Mr. R. Bhaskar Reddy	Asst.Professor, Sri padmavati mahila viswa vidyalayam, Tirupati, Chittoor Dist.	Member	

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

2nd BoS Meeting of Mechanical Engineering (ME)

Date: 23-12-2017

The 2nd meeting of Board of Studies (BoS) in Mechanical Engineering is held on 23 December, 2017 at 10.00 AM in the Department of Mechanical 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. S. Sunil Kumar Reddy, Chairman - BoS chaired the meeting and welcomed all the members to the Second BoS meeting and discussed about the following agenda:

1. Preparation of course structure for III & IV year UG in ME w.e.f., 2018-19.
2. Preparation of syllabus for III & IV year UG in ME w.e.f., 2018-19.
3. Preparation of syllabus for the subject offered to other branches w.e.f., 2018-19.
4. Suggesting panel of question paper setters.
5. Suggesting panel of examiners.
6. Any other items

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

Preparation of course structure for III & IV year UG in ME w.e.f., 2018-19.

Resolution: 1

After the detailed discussion the course structure for III & IV year UG in ME was prepared (given in **Annexure –I**) and is applicable from the A.Y., 2018-19.

Agenda: 2

Preparation of syllabus for III & IV year UG in ME w.e.f., 2018-19.

Resolution: 2

After the thorough discussion syllabus was formulated to make the students acquire the required technical knowledge and skills. The syllabus framed for the III and IV year of UG in ME (given in **Annexure –II**) and is applicable from the A.Y., 2018-19.

A. Course & Syllabus Comparison

With reference to the JNTUA R15 regulations, the new regulation (R16) syllabus for III & IV year has the following modifications, which are given in the below table.

III B.Tech

S. No	R15 Regulation	R16 Regulation	Percentage of course content changed
1	MOOC-II Industrial Engineering & Management	Industrial Engineering & Management	7
2	Thermal Engineering	Thermal Engineering	60
3	CBCC-I Non-Conventional Source of Energy	Non-Conventional Energy Resources	37.5
4	Design of Machine Members-I	Design of Machine Elements-I	10
5	Automobile Engineering	Automobile Engineering	50

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6	Machine Tools	Machine Tools	0
7	Thermal Engineering Laboratory	Thermal Engineering- Lab	20
8	Machine Tools Lab	Machine Tools Lab	20
9		Comprehensive Online Examination-III	100
10		Aptitude Practice-I	100
11	Environmental Studies	Environmental Studies	20
12	Managerial Economics & Financial Analysis	Managerial Economics & Financial Analysis	10
13	Design of Machine Members – II	Design of Machine Elements-II	20
14	Heat Transfer	Heat Transfer	30
15	CAD/CAM	CAD/CAM	100
16		Advanced English Language and	100
17		Communication Skills Lab	100
18		Comprehensive Online Examination-IV	100
19		Aptitude Practice-II	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech III Year	**19**	**51.81**

IV B.Tech

S. No	R15 Regulation	R16 Regulation	Percentage of course content changed
1	MOOCS -I Entrepreneurship	Entrepreneurship Development	45
2	Operations Research	Operations Research	20
3	Refrigeration & Air	Refrigeration & Air Conditioning	0

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	Conditioning		
4	Metrology and Measurements	Metrology & Measurements	0
5	Finite Element Methods	Finite Element Methods	10
6	Quality Control and Reliability Engineering	Quality Control and Reliability Engineering	100
8	Metal Forming Process	Metal Forming Process	20
9		Elements of Road Traffic Safety	100
10		Neural Networks & Fuzzy Logic	100
11		Matlab Programming	100
12		Database Management Systems	100
13	Intellectual Property Rights	Intellectual Property Rights	0
14	Metrology and Measurements Lab	Metrology and Measurements Lab	0
15	Computer Aided Engineering Lab	Computer Aided Engineering Lab	50
16	Mechatronics	Mechatronics	100
17	MOOCS -III Power Plant Engineering	Power Plant Engineering	10
18	Production & Operation Management	Production and Operation Management	0
19	Modern Manufacturing Methods	Modern Manufacturing Methods	0
20	MOOCS -III Gas Turbine and Jet Propulsion	Gas Turbine and Jet Propulsion	0
21	Automation and Robotics	Automation & Robotics	20
22	Advanced welding processes	Advanced welding processes	100
23		MOOC	100
24		Seminar	100
25		Project	100

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Course	Total courses	Percentage of syllabus changed
ME B.Tech IV Year	**25**	**47**

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B. Course Relevance

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

B.Tech

S.No	Course Title	Course Code	Relevance
1	Entrepreneurship Development	16MB751	Entrepreneurship
2	Operations Research	16ME324	Employability
3	Refrigeration & Air Conditioning	16ME325	Employability
4	Metrology& Measurements	16ME326	Employability
5	Finite Element Methods	16ME327	Employability
6	Quality Control and Reliability Engineering	16ME328	Employability
7	Metal Forming Process	16ME329	Employability
8	Elements of Road Traffic Safety	16CE145	Skill Development
9	Neural Networks & Fuzzy Logic	16EE239	Skill Development
10	Matlab Programming	16EC443	Skill Development
11	Database Management Systems	16CS511	Skill Development
12	Intellectual Property Rights	16MB752	Entrepreneurship
13	Metrology and Measurements Lab	16ME330	Skill Development
14	Computer Aided Engineering Lab	16ME331	Skill Development
15	Mechatronics	16ME332	Employability
16	Power Plant Engineering	16ME333	Employability
17	Production and Operation Management	16ME334	Employability
18	Modern Manufacturing Methods	16ME335	Employability
19	Gas Turbine and Jet Propulsion	16ME336	Employability
20	Automation & Robotics	16ME337	Employability

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21	Advanced welding processes	16ME338	Employability
22	MOOC courses-offered by SWAYAM/ NPTEL/ NISTE-suggested by the department(online courses)	MOOCS	Skill Development
23	Seminar	16ME339	Employability
24	Project work	16ME340	Employability
25	Industrial Engineering & Management	16ME311	Employability
26	Thermal Engineering	16ME312	Employability
27	Non-Conventional Energy Resources	16ME313	Employability
28	Design of Machine Elements-I	16ME314	Employability
29	Automobile Engineering	16ME315	Employability
30	Machine Tools	16ME316	Employability
31	Thermal Engineering- Lab	16ME317	Skill Development
32	Machine Tools Lab	16ME318	Skill Development
33	Aptitude Practice-I	16HS616	Skill Development
34	Environmental Studies	16HS605	Skill Development
35	Managerial Economics & Financial Analysis	16MB750	Entrepreneurship
36	Design of Machine Elements-II	16ME319	Employability
37	Heat Transfer	16ME320	Employability
38	CAD/CAM	16ME321	Employability
39	Advanced English Language and Communication Skills Lab	16HS615	Skill Development
40	Heat Transfer Lab	16ME322	Skill Development
41	Computer Aided Design Lab	16ME323	Skill Development
42	Aptitude Practice-II	16HS617	Skill Development

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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

Preparation of syllabus for the subject offered to other branches w.e.f. 2018-19.

Resolution: 3

After the thorough discussion syllabus was prepared for the subject offered to other branches (given in **Annexure-III**) and is applicable from the A.Y., 2018-19.

Agenda: 4

Suggesting panel of question paper setters.

Resolution: 4

The panel of question paper setters was suggested (given in **Annexure –IV**).

Agenda: 5

Suggesting panel of examiners.

Resolution: 5

The panel of examiners for valuation was suggested (given in **Annexure –V**).

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. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2	Dr. C. Prabhu Rama Krishnan	Professor-SIETK	Member	
3	Dr. D. Subramanyam	Professor-SIETK	Member	
4	Dr. C.Sreedhar	Professor-SIETK	Member	
5	Mr. F. Ananda Raju	Professor-SIETK	Member	
6	Dr. BVSSS Prasad	Professor & Head, IIT, Madras, Chennai	Member	
7	Dr. M. Nageswara Rao	Professor &Dean, VIT University, Vellore Campus	Member	
8	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	
9	Mr. N. Sudarsan Reddy	General Manager(Admin), NELCAST, Industrial Estate, Gudur, Nellore Dist.	Member	
10	Mr. R. Bhaskar Reddy	Asst.Professor, Sri padmavati mahila viswa vidyalayam, Tirupati, Chittoor Dist.	Member	

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

3rd BoS Meeting of Mechanical Engineering (ME)

Date: 18-06-2018

The 3rd meeting of Board of Studies (BoS) in Mechanical Engineering is held on 18 June, 2018 at 2:00 PM in the Department of Mechanical 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. S. Sunil Kumar Reddy, 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 I & II year UG & PG in ME w.e.f., A.Y.2018-19.
2. Approval of syllabus for I & II year UG & PG in ME w.e.f., A.Y.2018-19.
3. Approval of syllabus for the subjects offered to various branches w.e.f., A.Y.2018-19.
4. Approval of panel of question paper setters.
5. Approval of panel of examiners.
6. Any other item

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

Preparation of course structure for I & II year UG & PG in ME w.e.f., 2018-19.

Resolution: 1

After the detailed discussion the BoS resolved to approve the course structure for I & II year UG & PG (ME) (given in **Annexure –I**) applicable from the A.Y., 2018-19.

Agenda: 2

Approval of syllabus for I & II year UG & PG in ME w.e.f., A.Y.2018-19.

Resolution: 2

After the thorough discussion syllabus was frame to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabus framed for the I and 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 Regulation	R18 Regulation	Percentage of course content changed
1	Mathematics-I	Mathematics-I	0
2	Physics	Physics	0
3	Engineering Mechanics	Engineering Mechanics	20
4	Computer Programming	Programming for problem solving	23.60
5	Engineering Physics Lab	Physics Lab	0
6		Programming for problem solving Lab	100

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7	Engineering & IT Workshop Lab	Workshop Practice Lab	0
8	Functional English	English	10
9	Engineering Mathematics-II	Mathematics-II	40
10	Engineering Chemistry	Chemistry	0
11	Engineering Graphics	Engineering Graphics & Design	0
12	Material Sciences and Metallurgy	Materials Engineering	6
13	English Language and Communication Skills Lab	English Lab	0
14		Chemistry Lab	100
15		Indian Constitution	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME I B.Tech I Year	**15**	**26.64**

II B.Tech

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Probability & Statistics	Probability & Statistics	20
2		Biology for Engineers	100
3	Strength of Materials	Strength of Materials	0
4	Kinematics of Machinery	Kinematics of Machinery	0
5	Fluid Mechanics & Fluid Machines	Fluid Mechanics & Fluid Machines	20
6	Strength of Materials Lab	Material Testing Lab	50
7	Machine Drawing Lab	Machine Drawing Lab	10
8	Fluid Mechanics & Fluid Machines Lab	Fluid Mechanics & Fluid Machines Lab	0

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9	Environmental Studies	Environmental Sciences	0
10	Non - Conventional Energy Resources	Non - Conventional Energy Resources	0
11	Basic Electrical & Electronics Engineering	Basic Electrical & Electronics Engineering	0
12	Manufacturing Technology	Manufacturing Processes	0
13	Engineering Thermodynamics	Thermodynamics	15
14	Dynamics of Machinery	Theory of Machines	10
15	Manufacturing Technology Lab	Manufacturing Processes Lab	100
16	Basic Electrical & Electronics Engineering lab	Basic Electrical & Electronics Engineering lab	100
17		Comprehensive Online Examination-I	100
18		Essence of Indian Traditional knowledge	100

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Course	Total courses	Percentage of syllabus changed
ME B.Tech II Year	**18**	**34.72**

I M.Tech [TE]

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Thermodynamics and Combustion	Thermodynamics and Combustion	80
2		Advanced Fluid Dynamics	100
3		Nuclear Engineering	100
4	Energy Conservation and Management	Energy Conservation and Management	20
5	Air Conditioning System Design	Air Conditioning System Design	20

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6	Jet Propulsion and Rocketry	Jet Propulsion and Rocketry	0
7	Thermal Engineering Lab	Thermal Engineering Lab	0
8		Computer Aided Analysis Lab	100
9		Research Methodology and IPR	100
10		English for Research Paper writing	100
11		Disaster Management	100
12		Sanskrit for Technical Knowledge	100
13		Value education	100
14	Advanced Heat Transfer	Advanced Heat Transfer	0
15		Steam Engineering	100
16	Refrigeration and Cryogenics	Refrigeration and Cryogenics	53
17		Design of Heat Exchangers	100
18	Computational Fluid Dynamics	Computational Fluid Dynamics	100
19	Modelling of IC Engines	Modelling of IC Engines	100
20	Computational Fluid Dynamics Lab	Computational Fluid Dynamics Lab	0
21		Thermal Engineering Virtual Lab	100
22		Constitution of India	100
23		Pedagogy Studies	100
24		Stress Management by Yoga	100
25		Personality Development through Life Enlightenment Skills	100
26		Mini-Project	100

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Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**26**	**75.88**

II M.Tech [TE]

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1		Design of Solar and Wind System	100
2		Advanced Mathematical Methods in Engineering	100
3		Business Analytics	100
4		Industrial Safety	100
5	Advances in Operations Research	Advances in Operations Research	20
6		Cost Management of Engineering Projects	100
7		Composite Materials	100
8		Waste to Energy	100
9		Dissertation Phase – I	100
10		Dissertation Phase – II	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**10**	**92**

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I M.Tech (CAD/CAM)

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Computational Methods	Computational Methods	0
2	Computer Integrated Manufacturing	Computer Integrated Manufacturing	0
3	Geometric Modeling	Geometric Modeling	0
4	CNC Technology & Programming	CNC Technology & Programming	0
5	Quality Engineering and Manufacturing	Quality Engineering and Manufacturing	0
6	Computer Aided Process Planning	Computer Aided Process Planning	0
7	Computer Aided Design Lab	Computer Aided Design Lab	100
8	Computer Modeling Lab	Computer Modeling Lab	100
9		Research Methodology and IPR	100
10		English for Research Paper writing	100
11		Disaster Management	100
12		Sanskrit for Technical Knowledge	100
13		Value education	100
14	Finite Element Methods	Finite Element Methods	0
15	Rapid Prototyping	Rapid Prototyping	0
16	Advances in Manufacturing Technology	Advances in Manufacturing Technology	100
17		Advancees in Optimization Techniques	100
18	Computer Graphics	Computer Graphics	0
19	Robotics	Robotics	0

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20		Virtual lab in Manufacturing Engineering	100
21		Computer Aided Analysis Lab	100
22		Constitution of India	100
23		Pedagogy Studies	100
24		Stress Management by Yoga	100
25		Personality Development through Life Enlightenment Skills	100
26		Mini-Project	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**26**	**61.53**

II M.Tech (CAD/CAM)

S. No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Mechatronics	Mechatronics	20
2		Mechanics of Composites	100
3		Business Analytics	100
4		Industrial Safety	100
5		Advances in Operations Research	100
6		Cost Management of Engineering Projects	100
7		Composite Materials	100
8		Waste to Energy	100
9		Dissertation Phase – I	100

10		Dissertation Phase – II	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**10**	**92**

B. Course Relevance

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

B.Tech & M.Tech

S.No	Course Title	Course Code	Relevance
1	Engineering Mechanics	18CE0101	Skill Development
2	Programming for problem solving	18CS0502	Skill Development
3	Programming for problem solving Lab	18CS0503	Skill Development
4	Workshop Practice Lab	18ME0301	Skill Development
5	Induction Program		Skill Development
6	Engineering Graphics& Design	18ME0302	Employability
7	English	18HS0810	Skill Development
8	Materials Engineering	18ME0303	Employability
9	English Lab	18HS0811	Skill Development
10	Indian Constitution	18HS0816	Employability
11	Biology for Engineers	18HS0803	Skill Development
12	Strength of Materials	18CE0151	Skill Development
13	Kinematics of Machinery	18ME0304	Employability
14	Fluid Mechanics & Fluid Machines	18CE0152	Skill Development
15	Material Testing Lab	18ME0305	Employability
16	Machine Drawing Lab	18ME0306	Employability

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17	Fluid Mechanics & Fluid Machines Lab	18CE0153	Skill Development
18	Environmental Sciences	18HS0804	Skill Development
19	Non-Conventional Energy Sources	18ME0307	Employability
20	Basic Electrical & Electronics Engineering	18EE0241	Skill Development
21	Manufacturing Processes	18ME0308	Employability
22	Thermodynamics	18ME0309	Employability
23	Theory of Machines	18ME0310	Employability
24	Manufacturing Processes Lab	18ME0311	Skill Development
25	Basic Electrical & Electronics Engineering lab	18EE0242	Skill Development
26	Essence of Indian Traditional knowledge	18HS0817	Employability
27	Design of Solar and Wind System	18ME3120	Employability
28	Advanced Mathematical Methods in Engineering	18HS0839	Skill Development
29	Business Analytics	18HS0824	Entrepreneurship
30	Industrial Safety	18ME3121	Employability
31	Advances in Operations Research	18ME3021	Employability
32	Cost Management of Engineering Projects	18CE1028	Skill Development
33	Composite Materials	18ME3022	Employability
34	Waste to Energy	18EE2128	Skill Development
35	Dissertation Phase – I	18ME3110	Skill Development
36	Dissertation Phase - II	18ME3111	Skill Development
37	Thermodynamics and Combustion	18ME3101	Employability
38	Advanced Fluid Dynamics	18ME3102	Employability
39	Nuclear Engineering	18ME3112	Employability
40	Energy Conservation and Management	18ME3113	Employability
41	Air Conditioning System Design	18ME3114	Employability

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42	Jet Propulsion and Rocketry	18ME3115	Employability
43	Thermal Engineering Lab	18ME3103	Employability
44	Computer Aided Analysis Lab	18ME3104	Employability
45	Research Methodology and IPR	18HS0823	Skill Development
46	English for Research Paper writing	18HS0818	Skill Development
47	Disaster Management	18CE1029	Skill Development
48	Sanskrit for Technical Knowledge	18HS0825	Skill Development
49	Value education	18HS0826	Skill Development
50	Advanced Heat Transfer	18ME3105	Employability
51	Steam Engineering	18ME3106	Employability
52	Refrigeration and Cryogenics	18ME3116	Employability
53	Design of Heat Exchangers	18ME3117	Employability
54	Computational Fluid Dynamics	18ME3118	Employability
55	Modelling of IC Engines	18ME3119	Employability
56	Computational Fluid Dynamics Lab	18ME3107	Skill Development
57	Thermal Engineering Virtual Lab	18ME3108	Skill Development
58	Constitution of India	18HS0829	Skill Development
59	Pedagogy Studies	18HS0827	Skill Development
60	Stress Management by Yoga	18HS0828	Skill Development
61	Personality Development through Life Enlightenment Skills	18HS0819	Skill Development
62	Mini-Project	18ME3109	Skill Development
63	Mechatronics	18ME3019	Employability
64	Mechanics of Composites	18ME3020	Employability
65	Business Analytics	18HS0824	Entrepreneurship
66	Industrial Safety	18ME3121	Employability
67	Advances in Operations Research	18ME3021	Employability

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68	Cost Management of Engineering Projects	18CE1028	Skill Development
69	Composite Materials	18ME3022	Employability
70	Waste to Energy	18EE2128	Skill Development
71	Dissertation Phase – I	18ME3009	Skill Development
72	Dissertation Phase – II	18ME3010	Skill Development
73	Computational Methods	18HS0845	Skill Development
74	Computer Integrated Manufacturing	18ME3001	Employability
75	Geometric Modeling	18ME3011	Employability
76	CNC Technology & Programming	18ME3012	Employability
77	Quality Engineering and Manufacturing	18ME3013	Employability
78	Computer Aided Process Planning	18ME3014	Employability
79	Computer Aided Design Lab	18ME3002	Skill Development
80	Computer Modeling Lab	18ME3003	Skill Development
81	Research Methodology and IPR	18HS0823	Skill Development
82	English for Research Paper Writing	18HS0818	Skill Development
83	Disaster Management	18CE1029	Skill Development
84	Sanskrit For Technical Knowledge	18HS0825	Skill Development
85	Value Education	18HS0826	Skill Development
86	Finite Element Methods	18ME3004	Employability
87	Rapid Prototyping	18ME3005	Employability
88	Advances in Manufacturing Technology	18ME3015	Employability
89	Advanced Optimization Techniques	18ME3016	Employability
90	Computer Graphics	18ME3017	Skill Development
91	Robotics	18ME3018	Skill Development
92	Virtual lab in Manufacturing Engineering	18ME3006	Employability
93	Computer Aided Analysis Lab	18ME3007	Skill Development

94	Constitution of India	18HS0829	Skill Development
95	Pedagogy Studies	18HS0827	Skill Development
96	Stress Management by Yoga	18HS0828	Skill Development
97	Personality Development through Life Enlightenment Skills	18HS0819	Skill Development
98	Mini-Project	18ME3008	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 syllabus for the subjects offered to various branches w.e.f., A.Y.2018-19.

Resolution: 3

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 subjects offered to various branches (given in **Annexure-III**).

Agenda: 4

Approval of panel of question paper setters.

Resolution: 4

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

Agenda: 5

Approval of panel of examiners.

Resolution: 5

Approved the panel of examiners prepared for valuation (given in **Annexure –V**) 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. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2	Dr. C. Prabhu Rama Krishnan	Professor-SIETK	Member	
3	Dr. D. Subramanyam	Professor-SIETK	Member	←ABSENT→
4	Dr. C.Sreedhar	Professor-SIETK	Member	
5	Mr. F. Ananda Raju	Professor-SIETK	Member	
6	Dr. BVSSS Prasad	Professor, IIT, Madras, Chennai	Member	←ABSENT→
7	Dr. M. Nageswara Rao	Professor &Dean, VIT University, Vellore Campus	Member	
8	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	18.6.2018
9	Mr. N. Sudarsan Reddy	General Manager(Admin), NELCAST, Industrial Estate, Gudur, Nellore Dist.	Member	←ABSENT→
10	Mr. R. Bhaskar Reddy	Asst.Professor, SPMVV, Tirupathi, Chittoor Dist.	Member	

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

4th BoS Meeting of Mechanical Engineering (ME)

Date: 14-08-2019

The 4th meeting of Board of Studies (BoS) in Mechanical Engineering is held on 14 August, 2019 at 2:00 PM in the Department of Mechanical 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. S. Sunil Kumar Reddy, 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 I year UG & PG in ME w.e.f., A.Y.2019-20.
2. Approval of syllabus for I year UG & PG in ME w.e.f., A.Y.2019-20.
3. Approval of syllabus for the subjects offered to various branches w.e.f., A.Y.2019-20.
4. Approval of Panel of Question Paper setters.
5. Approval of Panel of Examiners.
6. 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 & PG in ME w.e.f., 2019-20.

Resolution: 1

After the detailed discussion the BoS resolved to approve the course structure for I year UG & PG (ME) (given in **Annexure –I**) applicable from the A.Y., 2019-20.

Agenda: 2

Approval of syllabus for I year UG & PG in ME w.e.f., A.Y.2019-20.

Resolution: 2

After the thorough discussion syllabus was frame to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabus framed for the I year B.Tech & M.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 Regulation	R19 Regulation	Percentage of course content changed
1	English	Communicative English	20
2	Mathematics-I	Algebra & Calculus	60
3	Physics	Advanced Physics	0
4	Engineering Mechanics	Engineering Mechanics	60
5	English Lab	Communicative English Lab	20
6	Physics Lab	Applied Physics Lab	0

7	Workshop Practice Lab	Workshop Practice Lab	0
8	Mathematics-II	Differential Equations and Vector Calculus	60
9	Chemistry	Engineering Chemistry	40
10	Python Programming	Python Programming	0
11	Engineering Graphics& Design	Engineering Graphics	10
12	Materials Engineering	Materials Engineering	10
13	Chemistry Lab	Engineering Chemistry Lab	10
14		Python Programming Lab	100
15	Indian Constitution	Indian Constitution	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech I Year	**15**	**32.66**

I M.Tech [TE]

S. No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Research Methodology and IPR	Research Methodology and IPR	20
2	Thermodynamics and Combustion	Thermodynamics and Combustion	30
3	Advanced Fluid Dynamics	Advanced Fluid Dynamics	0
4	Nuclear Engineering	Nuclear Engineering	60
5	Energy Conservation and Management	Energy Conservation and Management	20
6		Energy Management in Thermal Systems	100
7	Air Conditioning System Design	Air Conditioning System Design	0

8	Jet Propulsion and Rocketry	Jet Propulsion and Rocketry	0
9		Fuels and Combustion	100
10	Thermal Engineering Lab	Thermal Engineering Lab	0
11	Computer Aided Analysis Lab	Computer Aided Analysis Lab	0
12	English for Research Paper writing	English for Research Paper writing	0
13	Advanced Heat Transfer	Advanced Heat Transfer	0
14	Steam Engineering	Steam Engineering	0
15	Refrigeration and Cryogenics	Refrigeration and Cryogenics	0
16	Design of Heat Exchangers	Design of Heat Exchangers	0
17		Cryogenic Engineering	100
18	Computational Fluid Dynamics	Computational Fluid Dynamics	0
19	Modelling of IC Engines	Modelling of IC Engines	0
20		Instrumentation for Thermal Engineering	100
21	Computational Fluid Dynamics Lab	Computational Fluid Dynamics Lab	0
22	Thermal Engineering Virtual Lab	Thermal Engineering Virtual Lab	0
23	Constitution of India	Constitution of India	0
24	Mini-Project	Mini-Project	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**24**	**22.08**

I M.Tech [CAD/CAM]

S. No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Research Methodology and IPR	Research Methodology and IPR	0
2	Computational Methods	Computational Methods	20
3	Computer Integrated Manufacturing	Computer Integrated Manufacturing	10
4	Geometric Modeling	Geometric Modeling	0
5	CNC Technology & Programming	CNC Technology & Programming	0
6		Additive Manufacturing and Tooling	100
7	Quality Engineering and Manufacturing	Quality Engineering and Manufacturing	0
8	Computer Aided Process Planning	Computer Aided Process Planning	0
9		Mechanical Behaviour Of Materials	100
10	Computer Aided Design Lab	Computer Aided Design Lab	0
11	Computer Modeling Lab	Computer Modeling Lab	0
12	English for Research Paper Writing	English for Research Paper Writing	0
13	Finite Element Methods	Finite Element Methods	0
14	Rapid Prototyping	Rapid Prototyping	0
15	Advances in Manufacturing Technology	Advances in Manufacturing Technology	0
16	Advanced Optimization Techniques	Advanced Optimization Techniques	0

17		Product Life Cycle Management	100
18	Computer Graphics	Computer Graphics	0
19	Robotics	Robotics	0
20		Non Destructive Testing	100
21	Virtual lab in Manufacturing Engineering	Virtual lab in Manufacturing Engineering	0
22	Computer Aided Analysis Lab	Computer Aided Analysis Lab	0
23	Constitution of India	Constitution of India	0
24	Mini-Project	Mini-Project	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**24**	**17.91**

B. Course Relevance

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

B.Tech & M.Tech

S.No	Course Title	Course Code	Relevance
1	Communicative English	19HS0810	Skill Development
2	Engineering Mechanics	19CE0101	Skill Development
3	Communicative English Lab	19HS0811	Skill Development
4	Workshop Practice Lab	19ME0301	Skill Development
5	Python Programming	19CS0501	Skill Development
6	Engineering Graphics	19ME0302	Employability
7	Materials Engineering	19ME0303	Employability
8	Python Programming Lab	19CS0502	Skill Development

9	Indian Constitution	19HS0816	Employability
10	Research Methodology and IPR	19HS0823	Skill Development
11	Thermodynamics and Combustion	19ME3101	Employability
12	Advanced Fluid Dynamics	19ME3102	Employability
13	Nuclear Engineering	19ME3112	Employability
14	Energy Conservation and Management	19ME3113	Employability
15	Energy Management in Thermal Systems	19ME3122	Employability
16	Air Conditioning System Design	19ME3114	Employability
17	Jet Propulsion and Rocketry	19ME3115	Employability
18	Fuels and Combustion	19ME3123	Employability
19	Thermal Engineering Lab	19ME3103	Skill Development
20	Computer Aided Analysis Lab	19ME3104	Skill Development
21	English for Research Paper writing	19HS0818	Skill Development
22	Advanced Heat Transfer	19ME3105	Employability
23	Steam Engineering	19ME3106	Employability
24	Refrigeration and Cryogenics	19ME3116	Employability
25	Design of Heat Exchangers	19ME3117	Employability
26	Cryogenic Engineering	19ME3124	Employability
27	Computational Fluid Dynamics	19ME3118	Employability
28	Modeling of IC Engines	19ME3119	Employability
29	Instrumentation for Thermal Engineering	19ME3125	Employability
30	Computational Fluid Dynamics Lab	19ME3107	Skill Development
31	Thermal Engineering Lab (Virtual Lab)	19ME3108	Skill Development
32	Constitution of India	19HS0829	Skill Development
33	Mini-Project	19ME3109	Skill Development
34	Research Methodology and IPR	19HS0823	Skill Development

35	Computational Methods	19HS0845	Skill Development
36	Computer Integrated Manufacturing	19ME3001	Employability
37	Geometric Modeling	19ME3011	Employability
38	CNC Technology & Programming	19ME3012	Employability
39	Additive Manufacturing and Tooling	19ME3023	Employability
40	Quality Engineering and Manufacturing	19ME3013	Employability
41	Computer Aided Process Planning	19ME3014	Employability
42	Mechanical Behaviour Of Materials	19ME3024	Employability
43	Computer Aided Design Lab	19ME3002	Skill Development
44	Computer Modeling Lab	19ME3003	Skill Development
45	English for Research Paper Writing	19HS0818	Skill Development
46	Finite Element Methods	19ME3004	Employability
47	Rapid Prototyping	19ME3005	Employability
48	Advances in Manufacturing Technology	19ME3015	Employability
49	Advanced Optimization Techniques	19ME3016	Employability
50	Product Life Cycle Management	19ME3025	Employability
51	Computer Graphics	19ME3017	Employability
52	Robotics	19ME3018	Employability
53	Non Destructive Testing	19ME3026	Employability
54	Manufacturing Engineering Lab (Virtual Lab)	19ME3006	Skill Development
55	Computer Aided Analysis Lab	19ME3007	Skill Development
56	Constitution of India	19HS0829	Skill Development
57	Mini-Project	19ME3008	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 syllabus for the subjects offered to various branches w.e.f., A.Y.2019-20.

Resolution: 3

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabus framed for the subjects offered to various branches (given in **Annexure-III**).

Agenda: 4

Approval of Panel of Question Paper setters.

Resolution: 4

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

Agenda: 5

Approval of Panel of Examiners.

Resolution: 5

Approved the panel of examiners prepared for valuation (given in **Annexure –V**) 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. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2	Dr. C. Prabhu Rama Krishnan	Professor-SIETK	Member	
3	Dr. C.Sreedhar	Professor-SIETK	Member	
4	Dr. F. Anand Raju	Professor-SIETK	Member	
5	Mr. D.Krishnaiah	Associate Professor-SIETK	Member	
6	Dr. BVSSS Prasad	Professor, Dept of ME IIT, Madras, Chennai	Member	ABSENT
7	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	14/8/19
8	Dr. N. N.Kishore	Professor, Dept of ME IIT, Tirupathi, Chittor	Member	ABSENT
9	Mr. B. Madhu Prathap	Director, SIBAR Auto Parts,Industrial Estate, Renigunta, Chittoor Dist.	Member	ABSENT
10	Mr. R. Bhaskar Reddy	Asst.Professor, SPMVV, Tirupathi, Chittoor Dist.	Member	

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

5th BoS Meeting of Mechanical Engineering (ME)

Date: 28/08/2020

The 5th meeting of Board of Studies (BoS) in Mechanical Engineering is held on 28 August, 2020 (Friday) at 10.00 AM online through ZOOM.

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

Dr. S.Sunil Kumar Reddy, Chairman - BoS chaired the meeting and welcomed all the members to the fifth BoS meeting and discussed the following agenda:

1. Approval of course structure and syllabus for II year B.Tech. under R19 Regulation.
2. Approval of course structure and syllabus for III year B.Tech. under R18 Regulation.
3. Approval of course structure and syllabus for I & II years M.Tech. under R20 Regulation and II year M. Tech under R19 regulation.
4. Approval of examiners and paper setters for II and III B.Tech. that comes under R19 & R18 respectively.
5. Approval of panel of examiners and paper setters for I & II M.Tech. that comes under R20 regulation and II M.Tech. under R19 regulation.
6. 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 and syllabus for II year B.Tech. under R19 Regulation in ME w.e.f., 2020-2021.

Resolution: 1

After detailed discussion, the BoS resolved to approve the course structure for II year B.Tech. under R19 Regulation (given in **Annexure –II** respectively) applicable from the A.Y.2020-2021.

A. Course & Syllabus Comparison

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

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Basic Electrical and Electronics Engineering	Basic Electrical and Electronics Engineering	0
2	Strength of Materials	Strength of Materials	20
3	Fluid Mechanics & Hydraulics Machinery	Fluid Mechanics & Hydraulics Machinery	20
4	Kinematics of Machinery	Kinematics of Machinery	0
5		Water Technology	100
6		Generation of Energy through Waste	100
7		Introduction to Communication Systems	100
8		Relational Database Management System	100
9		Management Science	100
10	Basic Electrical and Electronics Engineering Lab	Basic Electrical and Electronics Engineering Lab	0
11	Strength of Materials Lab	Strength of Materials Lab	50

12	Fluid Mechanics& Hydraulics Machinery Lab	Fluid Mechanics& Hydraulics Machinery Lab	15
13	Environmental Science	Environmental Science	0
14	Probability & Statistics	Numerical Methods, Probability & Statistics	100
15	Thermodynamic	Engineering Thermodynamics	20
16	Manufacturing Processes	Manufacturing Processes	20
17	Theory of Machines	Theory of Machines	100
18		Fundamentals of Urban Planning	100
19	Industrial Instrumentation	Industrial Instrumentation	0
20		Elements of Embedded Systems	100
21		Java Programming	100
22	Intellectual Property Rights	Intellectual Property Rights	0
23		Fuels Lab	100
24	Manufacturing Processes Lab	Manufacturing Processes Lab	0
25	Machine Drawing Lab	Computer Aided Machine Drawing Lab	100
26	Essence of Indian Traditional Knowledge	Essence of Indian Traditional Knowledge	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech II Year	**26**	**51.73**

B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Basic Electrical and Electronics Engineering	19EE0240	Skill Development
2	Strength of Materials	19CE0150	Employability
3	Fluid Mechanics & Hydraulics Machinery	19CE0151	Employability
4	Kinematics of Machinery	19ME0304	Employability

5	Water Technology	19CE0136	Skill Development
6	Generation of Energy through Waste	19EE0238	Skill Development
7	Introduction to Communication Systems	19EC0450	Skill Development
8	Relational Database Management System	19CS0550	Skill Development
9	Management Science	19HS0813	Entrepreneurship
10	Basic Electrical and Electronics Engineering Lab	19EE0241	Skill Development
11	Strength of Materials Lab	19CE0106	Skill Development
12	Fluid Mechanics& Hydraulics Machinery Lab	19CE0112	Skill Development
13	Environmental Science	19HS0805	Skill Development
14	Engineering Thermodynamics	19ME0305	Employability
15	Manufacturing Processes	19ME0306	Employability
16	Theory of Machines	19ME0307	Employability
17	Fundamentals of Urban Planning	19CE0143	Skill Development
18	Industrial Instrumentation	19EE0233	Skill Development
19	Elements of Embedded systems	19EC0451	Skill Development
20	Java Programming	19CS0551	Skill Development
21	Intellectual Property Rights	19HS0814	Skill Development
22	Fuels Lab	19ME0308	Skill Development
23	Manufacturing Processes Lab	19ME0309	Skill Development
24	Computer Aided Machine Drawing lab	19ME0310	Skill Development
25	Essence of Indian Traditional knowledge	19HS0817	Employability

As per the decisions taken 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 and syllabus for III year B.Tech. under R18 Regulation in ME w.e.f., 2020-2021.

Resolution: 2

After thorough discussion, course structure and syllabus was framed to make the students acquire required technical knowledge and skills. The BoS resolved to approve the course structure for III year B.Tech. under R18 Regulation (given in **Annexure –III** respectively) applicable from the A.Y.2020-21.

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

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
1		Supply Chain Management	100
2	CAD/CAM	CAD/CAM	6
3	Design of Machine Elements-I	Design of Machine Elements-I	8
4	Machine Tools	Machine Tools	0
5	Thermal Engineering	Thermal Engineering	6
6	Computer Aided Modeling Lab	Computer Aided Modeling Lab	45
7	Machine Tools lab	Machine Tools lab	0
8	Thermal Engineering Lab	Thermal Engineering Lab	77
9	Aptitude Practice II	Aptitude Practices	0
10	Design of Machine Elements-II	Design of Machine Elements-II	0
11	Heat Transfer	Heat & Mass Transfer	13
12	Metrology & Measurements	Metrology & Measurements	20
13	Industrial Engineering & Management	Industrial Engineering &Management	40
14	Production and Operations Management	Production & Operations Management	0
15		Total Quality Management	100
16	Elements of Road Traffic Safety	Elements of Road Traffic Safety	0
17	Industrial Instrumentation	Industrial Instrumentation	100
18	Introduction to IOT	Introduction to IOT	100

19	Python Programming	Python Programming	100
20	Intellectual Property Rights	Intellectual Property Rights	0
21	Heat Transfer Lab	Heat Transfer Lab	6
22	Metrology and Measurements Lab	Metrology and Measurements Lab	0
23		Internship (60 hours)	100
24	Comprehensive Online Examination-II	Comprehensive Online Examination-II	0
25	Advanced English Language and Communication Skills Lab	English for Corporate Communication Skills Lab	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech III Year	**25**	**32.84**

B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Supply Chain Management	18HS0860	Skill Development
2	CAD/CAM	18ME0312	Employability
3	Design of Machine Elements-I	18ME0313	Employability
4	Machine Tools	18ME0314	Employability
5	Thermal Engineering	18ME0315	Employability
6	Computer Aided Modeling Lab	18ME0316	Skill Development
7	Machine Tools lab	18ME0317	Skill Development
8	Thermal Engineering Lab	18ME0318	Skill Development
9	Aptitude Practices	18HS0842	Skill Development
10	Design of Machine Elements-II	18ME0319	Employability
11	Heat & Mass Transfer	18ME0320	Employability
12	Metrology & Measurements	18ME0321	Skill Development
13	Industrial Engineering &Management	18ME0330	Employability
14	Production & Operations Management	18ME0331	Employability
15	Total Quality Management	18ME0332	Employability
16	Elements of Road Traffic Safety	18CE0127	Skill Development
17	Industrial Instrumentation	18EE0234	Skill Development
18	Introduction to IOT	18EC0449	Skill Development
19	Python Programming	18CS0517	Skill Development

20	Intellectual Property Rights	18HS0814	Skill Development
21	Heat Transfer Lab	18ME0322	Skill Development
22	Metrology and Measurements Lab	18ME0323	Skill Development
23	Mini Project	18ME0327	Skill Development
24	English for Corporate Communication Skills Lab	18HS0859	Skill Development

As per the decisions taken 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 course structure and syllabus for I & II years M.Tech. under R20 Regulation and II year M. Tech under R19 regulation.

Resolution:3

The BoS resolved to approve the syllabus framed for I & II years M.Tech. under R20 Regulation and II year M.Tech under R19 regulation (given in **Annexure –IV** respectively).

A. Course & Syllabus Comparison

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

I M.Tech [TE]

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Research Methodology and IPR	Research Methodology and IPR	40
2	Thermodynamics and Combustion	Thermodynamics and Combustion	0
3	Advanced Fluid Dynamics	Advanced Fluid Dynamics	0
4	Nuclear Engineering	Nuclear Engineering	0
5	Energy Conservation and Management	Energy Conservation and Management	0
6	Energy Management in Thermal Systems	Energy Management in Thermal Systems	0
7	Air Conditioning System Design	Air Conditioning System Design	0
8	Jet Propulsion and Rocketry	Jet Propulsion and Rocketry	0
9	Fuels and Combustion	Fuels and Combustion	36

10	Thermal Engineering Lab	Thermal Engineering Lab	0
11	Computer Aided Analysis Lab	Computer Aided Analysis Lab	0
12	English for Research Paper writing	English for Research Paper writing	0
13	Advanced Heat Transfer	Advanced Heat Transfer	0
14	Steam Engineering	Steam Engineering	5
15	Refrigeration and Cryogenics	Refrigeration and Cryogenics	0
16	Design of Heat Exchangers	Design of Heat Exchangers	100
17	Cryogenic Engineering	Cryogenic Engineering	100
18	Computational Fluid Dynamics	Computational Fluid Dynamics	0
19	Modeling of IC Engines	Modeling of IC Engines	0
20	Instrumentation for Thermal Engineering	Instrumentation for Thermal Engineering	0
21	Computational Fluid Dynamics Lab	Computational Fluid Dynamics Lab	0
22	Thermal Engineering Lab (Virtual Lab)	Thermal Engineering Lab (Virtual Lab)	0
23	Constitution of India	Constitution of India	0
24	Mini-Project	Mini-Project	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**24**	**11.70**

II M.Tech [TE]

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Design of Solar and Wind System	Design of Solar and Wind System	0
2	Finite Element Methods in Thermal Engineering	Finite Element Methods in Thermal Engineering	0
3	Thermal Measurements and Process Control	Thermal Measurements and Process Control	0
4	Business Analytics	Business Analytics	0
5	Cost Management of Engineering Projects	Cost Management of Engineering Projects	0

6	Waste to Energy	Waste to Energy	0
7	Industrial Safety	Industrial Safety	0
8	Advances in Operations Research	Advances in Operations Research	0
9	Composite Materials	Composite Materials	0
10	Dissertation Phase – I	Dissertation Phase – I	0
11	Dissertation Phase – II	Dissertation Phase – II	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**11**	**0**

I M.Tech [CAD/CAM]

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Research Methodology and IPR	Research Methodology and IPR	40
2	Computational Methods	Computational Methods	0
3	Computer Integrated Manufacturing	Computer Integrated Manufacturing	0
4	Geometric Modeling	Geometric Modeling	0
5	CNC Technology & Programming	CNC Technology & Programming	0
6	Additive Manufacturing and Tooling	Additive Manufacturing and Tooling	0
7	Quality Engineering and Manufacturing	Quality Engineering and Manufacturing	0
8	Computer Aided Process Planning	Computer Aided Process Planning	63
9	Mechanical Behaviour of Materials	Mechanical Behaviour of Materials	0
10	Computer Aided Design Lab	Computer Aided Design Lab	0

11	Computer Modeling Lab	Computer Modeling Lab	0
12	English for Research Paper Writing	English for Research Paper Writing	0
13	Finite Element Methods	Finite Element Methods	0
14	Rapid Prototyping	Rapid Prototyping	0
15	Advances in Manufacturing Technology	Advances in Manufacturing Technology	0
16	Advanced Optimization Techniques	Advanced Optimization Techniques	0
17	Product Life Cycle Management	Product Life Cycle Management	0
18	Computer Graphics	Computer Graphics	0
19	Robotics	Robotics	0
20	Non Destructive Testing	Non Destructive Testing	0
21	Manufacturing Engineering lab (Virtual Lab)	Manufacturing Engineering lab (Virtual Lab)	0
22	Computer Aided Analysis Lab	Computer Aidcd Analysis Lab	0
23	Constitution of India	Constitution of India	0
24	Mini-Project	Mini-Project	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech I Year	**24**	**4.29**

II M.Tech [CAD/CAM]

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Mechatronics	Mechatronics	0
2	Mechanics of Composites	Mechanics of Composites	0
3	Industrial Robotics and Expert Systems	Industrial Robotics and Expert Systems	0
4	Business Analytics	Business Analytics	0
5	Cost Management of	Cost Management of	0

	Engineering Projects	Engineering Projects	
6	Waste to Energy	Waste to Energy	0
7	Industrial Safety	Industrial Safety	0
8	Advances in Operations Research	Advances in Operations Research	0
9	Composite Materials	Composite Materials	0
10	Dissertation Phase – I	Dissertation Phase – I	0
11	Dissertation Phase – II	Dissertation Phase – II	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**11**	**0**

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 M.Tech [TE]

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Design of Solar and Wind System	Design of Solar and Wind System	0
2		Finite Element Methods in Thermal Engineering	100
3		Thermal Measurements and Process Control	100
4	Business Analytics	Business Analytics	88
5	Cost Management of Engineering Projects	Cost Management of Engineering Projects	100
6	Waste to Energy	Waste to Energy	0
7	Industrial Safety	Industrial Safety	0
8	Advances in Operations Research	Advances in Operations Research	14
9	Composite Materials	Composite Materials	0
10	Dissertation Phase – I	Dissertation Phase – I	0
11	Dissertation Phase – II	Dissertation Phase – II	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**11**	**36.54**

II M.Tech [CAD/CAM]

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Mechatronics	Mechatronics	64
2	Mechanics of Composites	Mechanics of Composites	0
3		Industrial Robotics and Expert Systems	100
4	Business Analytics	Business Analytics	88
5	Cost Management of Engineering Projects	Cost Management of Engineering Projects	100
6	Waste to Energy	Waste to Energy	0
7	Industrial Safety	Industrial Safety	0
8	Advances in Operations Research	Advances in Operations Research	14
9	Composite Materials	Composite Materials	0
10	Dissertation Phase – I	Dissertation Phase – I	0
11	Dissertation Phase – II	Dissertation Phase – II	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME M.Tech II Year	**11**	**33.27**

B. Course Relevance

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

M.Tech

Sno	Course Title	Course Code	Relevance
1	Research Methodology and IPR	20HS0823	Skill Development
2	Thermodynamics and Combustion	20ME3101	Employability
3	Advanced Fluid Dynamics	20ME3102	Employability
4	Nuclear Engineering	20ME3112	Employability
5	Energy Conservation and	20ME3113	Employability

	Management		
6	Energy Management in Thermal Systems	20ME3114	Employability
7	Air Conditioning System Design	20ME3115	Employability
8	Jet Propulsion and Rocketry	20ME3116	Employability
9	Fuels and Combustion	20ME3117	Employability
10	Thermal Engineering Lab	20ME3103	Skill Development
11	Computer Aided Analysis Lab	20ME3104	Skill Development
12	English for Research Paper writing	20HS0818	Skill Development
13	Advanced Heat Transfer	20ME3105	Employability
14	Steam Engineering	20ME3106	Employability
15	Refrigeration and Cryogenics	20ME3118	Employability
16	Design of Heat Exchangers	20ME3119	Employability
17	Cryogenic Engineering	20ME3120	Employability
18	Computational Fluid Dynamics	20ME3121	Employability
19	Modeling of IC Engines	20ME3122	Skill Development
20	Instrumentation for Thermal Engineering	20ME3123	Employability
21	Computational Fluid Dynamics Lab	20ME3107	Skill Development
22	Thermal Engineering Lab (Virtual Lab)	20ME3108	Skill Development
23	Constitution of India	20HS0825	Skill Development
24	Mini-Project	20ME3109	Skill Development
25	Research Methodology and IPR	20HS0823	Skill Development
26	Computational Methods	20HS0840	Skill Development
27	Computer Integrated Manufacturing	20ME3001	Employability
28	Geometric Modeling	20ME3011	Skill Development
29	CNC Technology & Programming	20ME3012	Employability
30	Additive Manufacturing and Tooling	20ME3012	Employability
31	Quality Engineering and Manufacturing	20ME3014	Employability
32	Computer Aided Process Planning	20ME3015	Employability
33	Mechanical Behaviour of Materials	20ME3016	Employability
34	Computer Aided Design Lab	20ME3002	Skill Development
35	Computer Modeling Lab	20ME3003	Skill Development
36	English for Research Paper Writing	20HS0818	Skill Development
37	Finite Element Methods	20ME3004	Employability
38	Rapid Prototyping	20ME3005	Employability
39	Advances in Manufacturing Technology	20ME3017	Employability
40	Advanced Optimization Techniques	20ME3018	Employability
41	Product Life Cycle Management	20ME3019	Employability
42	Computer Graphics	20ME3020	Employability
43	Robotics	20ME3021	Employability
44	Non Destructive Testing	20ME3022	Employability
45	Manufacturing Engineering Lab	20ME3006	Skill Development

	(Virtual Lab)		
46	Computer Aided Analysis Lab	20ME3007	Skill Development
47	Constitution of India	20HS0825	Skill Development
48	Mini-Project	20ME3008	Skill Development
49	Design of Solar and Wind System	19ME3120	Skill Development
50	Finite Element Methods in Thermal Engineering	19ME3126	Employability
51	Thermal Measurements and Process Control	19ME3127	Employability
52	Business Analytics	19HS0824	Entrepreneurship
53	Cost Management of Engineering Projects	19CE1028	Skill Development
54	Waste to Energy	19EE2128	Employability
55	Industrial Safety	19ME3121	Employability
56	Advances in Operations Research	19ME3021	Employability
57	Composite Materials	19ME3022	Employability
58	Dissertation Phase – I	19ME3110	Employability
59	Dissertation Phase - II	19ME3111	Employability
60	Mechatronics	19ME3019	Employability
61	Mechanics of Composites	19ME3020	Employability
62	Industrial Robotics and Expert Systems	19ME3027	Employability
63	Business Analytics	19HS0824	Entrepreneurship
64	Cost Management of Engineering Projects	19CE1028	Skill Development
65	Waste to Energy	19EE2128	Skill Development
66	Industrial Safety	19ME3121	Employability
67	Advances in Operations Research	19ME3021	Employability
68	Composite Materials	19ME3022	Employability
69	Dissertation Phase – I	19ME3009	Employability
70	Dissertation Phase – II	19ME3010	Employability

As per the decisions taken 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 examiners and question paper setters for various regulations under UG.

Resolution:4

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in **Annexure–V** respectively) to be submitted to the college Academic council for approval.

Agenda: 5

Approval of panel of examiners and question paper setters for various regulations under PG.

Resolution:5

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in **Annexure–VI** respectively) 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.	Member Name	Designation/Organisation	Role of BOS	Signature
1.	Dr. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2.	Dr. C.Sreedhar	Professor-SIETK	Member	
3.	Dr. F. Anand Raju	Professor-SIETK	Member	
4.	Dr. Subhankar Das	Associate Professor-SIETK	Member	
5.	Mr. D.Krishnaiah	Associate Professor-SIETK	Member	
6.	Dr. BVSSS Prasad	Professor, Dept of ME IIT, Madras, Chennai	Member	
7.	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	ABSENT
8.	Dr. N. N.Kishore	Professor, Dept of ME IIT, Tirupathi, Chittor	Member	
9.	Mr. B. Madhu Prathap	Director, SIBAR Auto Parts,Industrial Estate, Renigunta, Chittoor Dist.	Member	ABSENT
10.	Mr. R. Bhaskar Reddy	Asst.Professor, SPMVV, Tirupathi, Chittoor Dist.	Member	

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR

(AUTONOMOUS)

6th BoS Meeting of Mechanical Engineering (ME)

Date: 19/01/2021

The 6th meeting of Board of Studies (BoS) in Mechanical Engineering is held on 19 January, 2021 (Tuesday) at 10.00 AM online through ZOOM.

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

Dr. S. Sunil Kumar Reddy, Chairman - BoS chaired the meeting and welcomed all the members to the fifth BoS meeting and discussed the following agenda:

1. Approval of course structure and syllabus for I year B.Tech. under R20 Regulation.
2. Approval of panel of examiners and paper setters for I year B.Tech. under R20 regulation.
3. 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 and syllabus for I year B.Tech. under R20 Regulation in ME w.e.f., 2020-2021.

Resolution: 1

After detailed discussion, the BoS resolved to approve the course structure and syllabus for I year B.Tech. under R20 Regulation (given in **Annexure –I** respectively) applicable from the A.Y.2020-2021.

A. Course & Syllabus Comparison

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

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Algebra & Calculus	Algebra and Calculus	30
2	Engineering Chemistry	Engineering Chemistry	20
3	Communicative English	Communicative English	0
4	Basic Electrical & Electronics Engineering	Basic Electrical & Electronics Engineering	0
5	Engineering Graphics	Engineering Graphics	0
6	Engineering Chemistry Lab	Engineering Chemistry Lab	10
7	Communicative English Lab	Communicative English Lab	0
8	Basic Electrical & Electronics Engineering lab	Basic Electrical & Electronics Engineering lab	0
9	Differential Equations and Complex Analysis	Differential Equations and Complex Analysis	40
10	Advanced Physics	Engineering Physics	20
11		C Programming and Data Structures	100
12	Engineering	Basic Thermodynamics	0

	Thermodynamics		
13	Engineering Mechanics	Basics of Engineering Mechanics	65
14	Applied Physics Lab	Engineering Physics Lab	0
15		C Programming and Data Structures Lab	100
16	Workshop Practice Lab	Workshop Practice Lab	100
17	Indian Constitution	Indian Constitution	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech I Year	17	28.52

B. Course Relevance

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

Sno	Course Title	Course Code	Relevance
1	Communicative English	20HS0810	Skill Development
2	Basic Electrical & Electronics Engineering	20EE0251	Skill Development
3	Engineering Graphics	20ME0301	Employability
4	Communicative English Lab	20HS0811	Skill Development
5	Basic Electrical & Electronics Engineering lab	20HS0811	Skill Development
6	C Programming and Data Structures	20CS0501	Skill Development
7	Basic Thermodynamics	20ME0303	Employability
8	Engineering Mechanics	20CE0102	Skill Development
9	C Programming and Data Structures Lab	20CS0502	Skill Development
10	Workshop Practice Lab	20ME0302	Skill Development
11	Indian Constitution	20HS0816	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

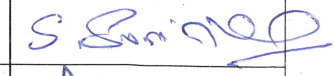
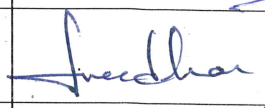
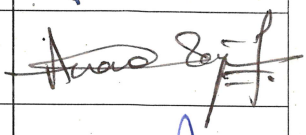
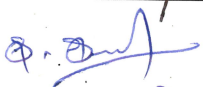
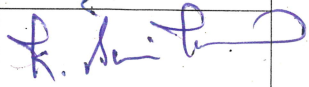
Approval of Panel of examiners and Question paper setters for I year B.Tech. under R20 Regulation under UG.

Resolution:2

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in **Annexure–II** respectively) 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.	Member Name	Designation/Organisation	Role of BOS	Signature
1.	Dr. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2.	Dr. C.Sreedhar	Professor-SIETK	Member	
3.	Dr. F. Anand Raju	Professor-SIETK	Member	
4.	Dr. S. Suresh	Professor-SIETK	Member	
5.	Dr. K. Siva Kumar	Associate Professor-SIETK	Member	
6.	Dr. BVSSS Prasad	Professor, Dept of ME IIT, Madras, Chennai	Member	
7.	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	
8.	Dr. N. N.Kishore	Professor, Dept of ME IIT, Tirupathi, Chittor	Member	
9.	Mr. P. Madhu Prathap	Director, SIBAR Auto Parts,Industrial Estate, Renigunta, Chittoor Dist.	Member	
10.	Mr. R. Bhaskar Reddy	Asst.Professor, SPMVV, Tirupathi, Chittoor Dist.	Member