

**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

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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

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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

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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

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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

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

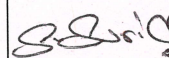

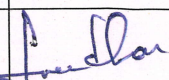

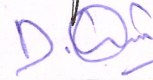
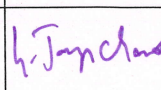
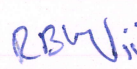
Approval of Panel of Examiners.

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, Chittoor	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	 RBV Vijaya 2019