

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**(AUTONOMOUS)****5th BoS Meeting of Civil Engineering (CE)**

Date: 28-08-2020

The 5th meeting of Board of Studies (BoS) in Civil Engineering is held on 28th August 2020 (Friday) at 10:30 A.M in the Department of Civil 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. C. Siva Kumar Prasad, Chairman BOS chaired the meeting and welcomed all the members to the 5th BoS meeting and discussed the following agenda

Agenda:

1. Approval of course structure for III year UG in Civil w.e.f., A.Y.2020-21 under R18 Regulation
2. Approval of course structure for II year UG & PG in Civil w.e.f., A.Y.2020-21 under R19 Regulation
3. Approval of course structure for I & II year PG in Civil w.e.f., A.Y.2020-21 under R20 Regulation
4. Approval of syllabus for III year UG in Civil w.e.f., A.Y.2020-21 under R18 Regulation
5. Approval of syllabus for II year UG & PG in Civil w.e.f., A.Y.2020-21 under R19 Regulation
6. Approval of syllabus for I & II year PG in Civil w.e.f., A.Y.2020-21 under R20 Regulation

7. Approval of syllabus for the subjects offered to various branches w.e.f. 2020-21 under R18, R19 & R20 Regulation
8. Approval of Panel of Question Paper setters under R18, R19 & R20 Regulation
9. Approval of Panel of Examiners under R18, R19 & R20 Regulation
10. Formulation/Modification of Department Vision, Mission, Program Educational Objectives (PEOs) & Program Specific Outcomes (PSOs)
11. Any other item with the permission of Chair

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 year UG in Civil w.e.f., A.Y.2020-21 under R18 Regulation

Resolution: 1

After detailed discussion the BoS resolved to approve the course structure for III year UG in Civil (given in **Annexure –I**) applicable for the A.Y.2020-21 under R18 Regulation

Agenda: 2

Approval of course structure for II year UG & PG in Civil w.e.f., A.Y.2020-21 under R19 Regulation

Resolution: 2

After detailed discussion the BoS resolved to approve the course structure for II year UG & PG in Civil (given in **Annexure –I**) applicable for the A.Y.2020-21 under R19 Regulation

Agenda: 3

Approval of course structure for I & II year PG in Civil w.e.f., A.Y.2020-21 under R20 Regulation

Resolution: 3

After detailed discussion the BoS resolved to approve the course structure for I & II year PG in Civil (given in **Annexure –I**) applicable for the A.Y.2020-21 under R20 Regulation

Agenda: 4

Approval of syllabus for III year UG in Civil w.e.f., A.Y.2020-21 under R18 Regulation

Resolution: 4

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabi framed for the III year B. Tech. (I & II-Semester) (given in **Annexure-II**) under R18 Regulation

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	Hydraulics & Hydraulic Machinery	Hydraulic Engineering	30
2	Surveying Lab – II	Surveying Lab – II	0
3	Design & Drawing of Reinforced Concrete Structures	Structural Design	40
4	Water Resources Engineering – I	Hydrology & Water Resources Engineering	50
5	Geotechnical Engineering – II	Geotechnical Engineering	60
6	Concrete Technology Lab	Construction Materials Lab	0
7	Aptitude Practice-I	Aptitude Practices	0
8	Transportation Engineering– I	Transportation Engineering	60
9	Geotechnical Engineering Lab	Geotechnical Engineering Lab	0
10	Transportation Engineering Lab	Transportation Engineering Lab	0
11	Environmental Engineering	Environmental Engineering	10
12	Estimation, Costing and Valuation	Estimation, Costing and Valuation	40
13	Advanced English Language and Communication Skills Lab	English for Corporate Communication Skills Lab	0
14	Non-Conventional Energy Resources	Non-Conventional Energy Resources	0

15	Environmental Engineering Lab	Environmental Engineering Lab	0
16	Advanced Foundation Engineering	Foundation Engineering	65
17	Construction Technology and Project Management	Construction Project Management	70
18		Industrial Instrumentation	100
19		Introduction to IOT	100
20		Python Programming	100
21		Water Technology	100
22		Maintenance & Rehabilitation of Structures	100
23		Intellectual Property Rights	100
24		Mini Project	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
III Year B.Tech CE	24	46.88

B. Course Relevance

The course 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	Hydraulic Engineering	18CE0114	Skill Development
2	Structural Design	18CE0115	Employability
3	Geotechnical Engineering	18CE0116	Skill Development
4	Hydrology & Water Resources Engineering	18CE0117	Skill Development
5	Estimation, Costing and Valuation	18CE0118	Employability
6	Geotechnical Engineering Lab	18CE0119	Skill Development
7	Construction Materials Lab	18CE0120	Skill Development
8	Surveying Lab – II	18CE0121	Skill Development
9	Aptitude practices	18HS0842	Skill Development
10	Construction Project Management	18CE0122	Skill Development
11	Environmental Engineering	18CE0123	Employability
12	Transportation Engineering	18CE0124	Employability
13	Foundation Engineering	18CE0133	Skill Development
14	Water Technology	18CE0134	Skill Development
15	Maintenance & Rehabilitation of Structures	18CE0135	Skill Development
16	Industrial Instrumentation	18EE0234	Skill Development
17	Non-Conventional Energy Resources	18ME0307	Skill Development

18	Introduction to IOT	18EC0449	Skill Development
19	Python Programming	18CS0517	Skill Development
20	Intellectual Property Rights	18HS0814	Skill Development
21	Transportation Engineering Lab	18CE0125	Skill Development
22	Environmental Engineering Lab	18CE0126	Skill Development
23	Mini project	18CE0130	Skill Development
24	English for Corporate Communication skills lab	18HS0859	Skill Development

Agenda: 5

Approval of syllabus for II year UG & PG in Civil w.e.f., A.Y.2020-21 under R19 Regulation

Resolution: 5

After the thorough discussion syllabus was framed to make the students acquire the required technical knowledge and skills. The BoS resolved to approve the syllabi framed for the II year B. Tech. (I & II-Semester) & II year M. Tech. (I & II-Semester) (given in **Annexure-II**) under R19 Regulation

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		Numerical Methods, Probability & Statistics	100
2	Introduction to Civil Engineering	Building Materials & Construction	50
3	Introduction to Solid Mechanics	Strength of Materials – I	10
4	Introduction to Fluid Mechanics	Fluid Mechanics	30
5	Solid Mechanics Lab	Strength of Materials Lab	5
6	Fluid Mechanics Lab	Fluid Mechanics & Hydraulic Machinery Lab	15

7	Computer Aided Building Drawing	Computer Aided Drawing Lab	0
8	Environmental Science	Environmental Science	0
9	Mechanical Engineering	Fundamentals of Mechanical Engineering	70
10	Engineering Geology	Engineering Geology	20
11	Surveying & Geomatics	Surveying & Geomatics	20
12	Mechanics of Solids	Strength of Materials - II	50
13	Engineering Geology Lab	Engineering Geology Lab	0
14	Surveying Lab – I	Surveying Lab	60
15	Industrial Instrumentation	Industrial Instrumentation	0
16	Python Programming	Python Programming	0
17	Intellectual Property Rights	Intellectual Property Rights	0
18	Essence of Indian Traditional Knowledge	Essence of Indian Traditional Knowledge	0
19		Structural Analysis	100
20		GIS Lab	100
21		Generation of Energy through Waste	100
22		Introduction to Communication Systems	100
23		Relational Database Management System	100
24		Management Science	100
25		Mechanical Measurements & Control Systems	100
26		Element of Embedded Systems	100
27		Java Programming	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
II Year B.Tech CE	27	49.26

B. Course Relevance

The course 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	Basic Electrical & Mechanical Engineering	19ME0345	Employability
2	Strength of Materials - II	19CE0103	Skill Development
3	Surveying & Geomatics	19CE0104	Employability
4	Building Materials & Construction	19CE0105	Skill Development
5	Generation of Energy through Waste	19EE0238	Skill Development
6	Fundamentals of Mechanical Engineering	19ME0349	Skill Development
7	Introduction to Communication Systems	19EC0448	Skill Development
8	Relational Database Management System	19CS0550	Skill Development
9	Management Science	19HS0813	Employability
10	Strength of Materials Lab	19CE0106	Skill Development
11	Surveying Lab	19CE0107	Skill Development
12	Computer Aided Drawing Lab	19CE0108	Skill Development
13	Environmental Science	19HS0805	Skill Development
14	Fluid Mechanics	19CE0109	Skill Development
15	Engineering Geology	19CE0110	Skill Development
16	Structural Analysis	19CE0111	Employability
17	Industrial Instrumentation	19EE0233	Skill Development
18	Mechanical Measurements & Control Systems	19ME0350	Skill Development
19	Element of Embedded Systems	19EC0449	Skill Development
20	Java Programming	19CS0551	Skill Development
21	Intellectual Property Rights	19HS0814	Skill Development
22	Fluid Mechanics & Hydraulic Machinery Lab	19CE0112	Skill Development
23	Engineering Geology Lab	19CE0113	Skill Development
24	GIS Lab	19CE0114	Skill Development
25	Essence of Indian Traditional Knowledge	19HS0817	Entrepreneurship

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 M.Tech (Structural Engineering)

S. No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Design of Prestressed Concrete Structures	Design of Prestressed Concrete Structures	50

2	Analysis of Laminated Composite Plates	Analysis of Laminated Composite Plates	0
3	Fracture Mechanics of Concrete Structures	Fracture Mechanics of Concrete Structures	0
4	Design of Plates and Shells	Design of Plates and Shells	0
5	Business Analytics	Business Analytics	100
6	Industrial Safety	Industrial Safety	0
7	Advances in Operations Research	Advances in Operations Research	100
8	Composite Materials	Composite Materials	100
9	Waste to Energy	Waste to Energy	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
II Year M.Tech (SE)	9	38.29

B. Course Relevance

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

S.No	Course Title	Course Code	Relevance
1	Design of Prestressed Concrete Structures	19CE1021	Employability
2	Analysis of Laminated Composite Plates	19CE1022	Skill Development
3	Fracture Mechanics of Concrete Structures	19CE1023	Skill Development
4	Design of Plates and Shells	19CE1024	Employability
5	Business Analytics	19HS0824	Skill Development
6	Industrial Safety	19ME3121	Skill Development
7	Advances in Operations Research	19ME3021	Skill Development
8	Composite Materials	19ME3022	Skill Development
9	Waste to Energy	19EE2128	Skill Development
10	Dissertation Phase-I	19CE1026	Employability
11	Dissertation Phase-II	19CE1027	Employability

Agenda: 6

Approval of syllabus for I & II year PG in Civil w.e.f., A.Y.2020-21 under R20 Regulation

Resolution: 6

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 M. Tech. (I & II-Semester) (given in **Annexure-II**) under R20 Regulation

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 & II Year M.Tech (Structural Engineering)

S. No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Research Methodology and IPR	Research Methodology and IPR	40
2	Advanced Structural Analysis	Advanced Structural Analysis	40
3	Advanced Solid Mechanics	Advanced Solid Mechanics	0
4	Theory of Thin Plates and Shells	Theory of Thin Plates and Shells	100
5	Theory and Applications of Cement Composites	Theory and Applications of Cement Composites	60
6	Theory of Structural Stability	Theory of Structural Stability	0
7	Analytical and Numerical Methods for Structural Engineering	Analytical and Numerical Methods for Structural Engineering	0
8	Structural Health Monitoring	Structural Health Monitoring	0
9	Structural Optimization	Structural Optimization	100
10	Structural Design Lab	Structural Design Lab	0
11	Advanced Concrete Lab	Advanced Concrete Lab	50
12	English for Research Paper Writing	English for Research Paper Writing	0
13	FEM in Structural Engineering	FEM in Structural Engineering	0
14	Structural Dynamics	Structural Dynamics	0
15	Advanced Steel Design	Advanced Steel Design	100

16	Design of Formwork	Design of Formwork	0
17	Design of High-Rise Structures	Design of High-Rise Structures	0
18	Design of Masonry Structures	Design of Masonry Structures	100
19	Design of Advanced Concrete Structures	Design of Advanced Concrete Structures	0
20	Advanced Design of Foundations	Advanced Design of Foundations	0
21	Soil Structure Interaction	Soil Structure Interaction	100
22	Design of Industrial Structure	Design of Industrial Structure	0
23		Structural Dynamics lab (Virtual Lab)	100
24	Numerical Analysis Lab	Numerical Analysis Lab	0
25	Constitution of India	Constitution of India	0
26	Design of Prestressed Concrete Structures	Design of Prestressed Concrete Structures	0
27	Analysis of Laminated Composite Plates	Analysis of Laminated Composite Plates	0
28	Fracture Mechanics of Concrete Structures	Fracture Mechanics of Concrete Structures	0
29	Design of Plates and Shells	Design of Plates and Shells	0
30	Business Analytics	Business Analytics	0
31	Industrial Safety	Industrial Safety	0
32	Advances in Operations Research	Advances in Operations Research	0
33	Composite Materials	Composite Materials	0
34	Waste to Energy	Waste to Energy	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
I & II Year M.Tech (S.E)	34	27.24

B. Course Relevance

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

S.No	Course Title	Course Code	Relevance
1	Research Methodology and IPR	20HS0823	Skill Development
2	Advanced Structural Analysis	20CE1001	Employability
3	Advanced Solid Mechanics	20CE1002	Skill Development
4	Theory of Thin Plates and Shells	20CE1008	Skill Development
5	Theory and Applications of Cement Composites	20CE1009	Skill Development
6	Theory of Structural Stability	20CE1010	Skill Development
7	Analytical and Numerical Methods for Structural Engineering	20HS0837	Skill Development
8	Structural Health Monitoring	20CE1011	Skill Development
9	Structural Optimization	20CE1012	Skill Development
10	Structural Design Lab	20CE1003	Skill Development
11	Advanced Concrete Lab	20CE1004	Employability
12	English for Research Paper Writing	20HS0818	Skill Development
13	FEM in Structural Engineering	20CE1005	Employability
14	Structural Dynamics	20CE1006	Skill Development
15	Advanced Steel Design	20CE1013	Employability
16	Design of Formwork	20CE1014	Employability
17	Design of High-Rise Structures	20CE1015	Employability
18	Design of Masonry Structures	20CE1016	Employability
19	Design of Advanced Concrete Structures	20CE1017	Employability
20	Advanced Design of Foundations	20CE1018	Employability
21	Soil Structure Interaction	20CE1019	Skill Development
22	Design of Industrial Structure	20CE1020	Employability
23	Structural Dynamics lab (Virtual Lab)	20CE1007	Skill Development
24	Numerical Analysis Lab	20HS0838	Skill Development
25	Mini Project	20CE1025	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: 7

Approval of syllabus for the subjects offered to various branches w.e.f. 2020-21 under R18, R19 & R20 Regulation

Resolution: 7

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 w.e.f. 2020-21 under R18, R19 & R20 Regulation (given in **Annexure-III**).

Agenda: 8

Approval of Panel of Question Paper setters under R18, R19 & R20 Regulation

Resolution: 8

Approved the Panel of Question Paper setters under R18, R19 & R20 Regulation (given in **Annexure –IV**) to be submitted to the college academic council for approval.

Agenda: 9

Approval of Panel of Examiners under R18, R19 & R20 Regulation

Resolution: 9

Approved the Panel of Examiners prepared for valuation under R18, R19 & R20 Regulation (given in **Annexure –V**) to be submitted to the college academic council for approval.

Agenda: 10

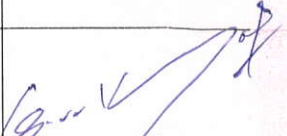
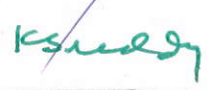
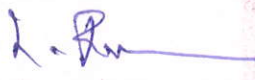
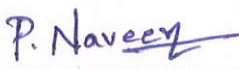
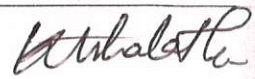

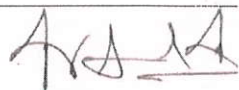
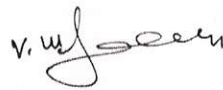

Formulation/Modification of Department Vision, Mission, Program Educational Objectives (PEOs) & Program Specific Outcomes (PSOs)

Resolution: 10

Finalized the Department Vision, Mission, Program Educational Objectives (PEOs) & Program Specific Outcomes (PSOs)

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. C Siva Kumar Prasad	Associate Professor & HOD – SIETK	Chairman	
2	Dr. K Chandrasekhar Reddy	Professor & Principal – SIETK	Member	
3	Dr. G Prabhakaran	Professor – SIETK	Member	
4	Mr. P Naveen	Assistant Professor- SIETK	Member	
5	Mrs. Asha Latha	Assistant Professor- SIETK	Member	
6	Dr. M Chandrasekhar	Professor, NIT, Warangal	Member	
7	Dr. D V Prasada Rao	Professor, SV University, Tirupati	Member	
8	Dr. B Krishna Prapoorna	Associate Professor, IIT Tirupati	Member	Enclosed -
9	Er. V Vidya Suman	Deputy Executive Engineer, Govt. of Telangana, Irrigation & CAD Dept., Engineer in Chief (I), Jalasoudha, Errammanzil, Hyderabad	Member	
10	Mr. M Murali	Assistant Professor , Sree Rama Engineering College, Karakambadi Road, Tirupati	Member	



B. KRISHNA PRAPOORNA, Ph.D., F.IRF., M.ASCE

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19 September 2020

Mr. C. Siva Kumar Prasad, M.Tech (Ph.D.)

Chairman, Board of Studies

Department of Civil Engineering

Siddharth Institute of Engineering & Technology, Puttur, Andhra Pradesh

Re: Participation in Board of Studies online meeting held on 28 August 2020

As a Member of the Board of Studies, Department of Civil Engineering, Siddharth Institute of Engineering & Technology, Puttur, I confirm my participation in the Combined & Department Board of Studies meeting held on 28 August 2020 through online mode (Zoom platform). Further, I approve the course structures and syllabi for the following curricula.

1. R18 Regulation – B.Tech – III Year
2. R19 Regulation – B.Tech – II Year
3. R20 Regulation – B.Tech – I Year
4. R19 Regulation – M.Tech – II Year
5. R20 Regulation – M.Tech – I & II Years

Sincerely,

Prof. B. Krishna Prapoorna, Ph.D., F.IRF., M.ASCE