

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR**(AUTONOMOUS)****7th BoS Meeting of Civil Engineering (CE)**

Date: 12-07-2021

The 7th meeting of Board of Studies (BoS) in Civil Engineering is held on 12th July 2021 (Monday) at 10:00 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 7th BoS meeting and discussed the following agenda

Agenda:

1. Approval of course structure for IV year UG in Civil w.e.f., A.Y.2021-22 under R18 Regulation
2. Approval of course structure for III year UG in Civil w.e.f., A.Y.2021-22 under R19 Regulation
3. Approval of course structure for II year UG in Civil w.e.f., A.Y.2021-22 under R20 Regulation
4. Approval of syllabus for IV year UG in Civil w.e.f., A.Y.2021-22 under R18 Regulation
5. Approval of syllabus for III year UG in Civil w.e.f., A.Y.2021-22 under R19 Regulation
6. Approval of syllabus for II year UG in Civil w.e.f., A.Y.2021-22 under R20 Regulation

7. Approval of syllabus for the subjects offered to various branches w.e.f. 2021-22 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. 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 IV year UG in Civil w.e.f., A.Y.2021-22 under R18 Regulation

Resolution: 1

After detailed discussion the BoS resolved to approve the course structure for IV year UG in Civil (given in **Annexure –I**) applicable for the A.Y.2021-22 under R18 Regulation

Agenda: 2

Approval of course structure for III year UG in Civil w.e.f., A.Y.2021-22 under R19 Regulation

Resolution: 2

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.2021-22 under R19 Regulation

Agenda: 3

Approval of course structure for II year UG in Civil w.e.f., A.Y.2021-22 under R20 Regulation

Resolution: 3

After detailed discussion the BoS resolved to approve the course structure for II year UG in Civil (given in **Annexure –I**) applicable for the A.Y.2021-22 under R20 Regulation

Agenda: 4

Approval of syllabus for IV year UG in Civil w.e.f., A.Y.2021-22 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 IV 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 IV year has the following modifications, which are given in the below table.

IV B.Tech

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Finite Element Methods in Civil Engineering	Finite Elements Methods	20
2	Computer Aided Design Lab	Computer Aided Design Lab	0
3	Design & Drawing of Irrigation Structures	Design & Drawing of Irrigation Structures	0
4	Advanced Structural Design	Advanced Structural Design	50
5	Ground Improvement Techniques	Ground Improvement Techniques	0
6	Prestressed Concrete	Prestressed Concrete	0
7	Mat lab Programming	MATLAB Programming	20
8	Managerial Economics and Financial Analysis	Managerial Economics and Financial Analysis	0
9	Intellectual Property Rights	Intellectual Property Rights	0
10	MOOC courses	MOOC courses	0
11	Project	Project Phase – II	0
12		Project Phase – I	100
13		Mini Project	100
14		Software Development & Testing	100
15		Solar Photovoltaic Systems	100
16		Biology for Engineers	100
17		Entrepreneurship Development	100
18		Indian Constitution	100
19		Essence of Indian Traditional Knowledge	100

20		Mechanical Engineering	100
21		Computer Aided Process Planning	100
22		MOOC courses	100
23		Civil Engineering Lab (Virtual Lab)	100
24		Water Technology	100
25		Maintenance & Rehabilitation of Structures	100
26		Fundamentals of Urban Planning	100
27		Traffic Engineering and Management	100
28		Environmental Impact Assessment & Management	100
29		Airport Planning and Design	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
IV Year B.Tech CE	29	65.17

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	18CE0137	Finite Elements Methods	Skill Development
2	18CE0128	Computer Aided Design Lab	Employability
3	18CE0145	Design & Drawing of Irrigation Structures	Employability
4	18CE0140	Advanced Structural Design	Skill Development
5	18CE0144	Ground Improvement Techniques	Skill Development
6	18CE0143	Prestressed Concrete	Employability
7	18EC0450	MATLAB Programming	Employability
8	18HS0812	Managerial Economics and Financial Analysis	Employability
9	18HS0814	Intellectual Property Rights	Employability
10	MOOC – I	MOOC Courses	Skill Development
11	18CE0132	Project Phase – II	Entrepreneurship
12	18CE0131	Project Phase – I	Entrepreneurship
13	18CE0130	Mini Project	Skill Development
14	18CS0544	Software Development & Testing	Skill Development
15	18EE0236	Solar Photovoltaic Systems	Skill Development
16	18HS0803	Biology for Engineers	Skill Development
17	18HS0815	Entrepreneurship Development	Entrepreneurship

18	18HS0816	Indian Constitution	Skill Development
19	18HS0817	Essence of Indian Traditional Knowledge	Skill Development
20	18ME0346	Mechanical Engineering	Skill Development
21	18ME0353	Computer Aided Process Planning	Skill Development
22	MOOC – II	MOOC Courses	Skill Development
23	18CE0129	Civil Engineering Lab (Virtual Lab)	Skill Development
24	18CE0134	Water Technology	Skill Development
25	18CE0135	Maintenance & Rehabilitation of Structures	Employability
26	18CE0138	Fundamentals of Urban Planning	Skill Development
27	18CE0139	Traffic Engineering and Management	Skill Development
28	18CE0141	Environmental Impact Assessment & Management	Employability
29	18CE0142	Airport Planning and Design	Skill Development

Agenda: 5

Approval of syllabus for III year UG in Civil w.e.f., A.Y.2021-22 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 III year B. 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 III year has the following modifications, which are given in the below table.

III B.Tech

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Hydraulic Engineering	Hydraulic Engineering	0
2	Structural Design	Structural Design	0
3	Geotechnical Engineering	Geotechnical Engineering	0
4	Hydrology & Water Resources Engineering	Hydrology & Water Resources Engineering	0
5	Estimation, Costing and Valuation	Estimation, Costing and Valuation	0
6	Geotechnical Engineering Lab	Geotechnical Engineering Lab	23
7	Construction Materials Lab	Concrete & Highway Materials Lab	45
8		Surveying Camp (2 Weeks)	100

9	Construction Project Management	Construction Project Management	20
10	Environmental Engineering	Environmental Engineering	0
11	Transportation Engineering	Transportation Engineering	0
12	Environmental Engineering Lab	Environmental Engineering Lab	0
13	Computer Aided Design Lab	Computer Aided Design Lab	0
14	Civil Engineering Lab (Virtual Lab)	Virtual Lab in Civil Engineering	0
15		Introduction to Cyber Security	100
16	Software Development & Testing	Software Development & Testing	0
17	Introduction to IOT	Introduction to IOT	0
18	MATLAB Programming	MATLAB Programming	0
19	Solar Photovoltaic Systems	Solar Photovoltaic Systems	0
20		Human Values and Professional Ethics	100
21	English for Corporate Communication skills lab	English for Corporate Communication Skills lab	22
22	Non-Conventional Energy Resources	Non-Conventional Energy Resources	10
23	Computer Aided Process Planning	Computer Aided Process Planning	0
24		Neural Networks and Fuzzy Logic	100
25		Business Ethics	100
26		Strategic Management	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
III Year B.Tech CE	26	27.69

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	19CE0116	Hydraulic Engineering	Skill Development
2	19CE0122	Structural Design	Employability
3	19CE0117	Geotechnical Engineering	Skill Development
4	19CE0123	Hydrology & Water Resources Engineering	Skill Development
5	19CE0115	Estimation, Costing and Valuation	Employability
6	19CE0119	Geotechnical Engineering Lab	Employability
7	19CE0120	Concrete & Highway Materials Lab	Employability

8	19CE0121	Surveying Camp (2 Weeks)	Employability
9	19CE0124	Construction Project Management	Skill Development
10	19CE0125	Environmental Engineering	Skill Development
11	19CE0118	Transportation Engineering	Skill Development
12	19CE0126	Environmental Engineering Lab	Employability
13	19CE0127	Computer Aided Design Lab	Employability
14	19CE0128	Virtual Lab in Civil Engineering	Skill Development
15	19CS0546	Introduction to Cyber Security	Skill Development
16	19CS0545	Software Development & Testing	Skill Development
17	19EC0450	Introduction to IOT	Skill Development
18	19EC0451	MATLAB Programming	Employability
19	19EE0239	Solar Photovoltaic Systems	Skill Development
20	19HS0858	Human Values and Professional Ethics	Skill Development
21	19HS0859	English for Corporate Communication Skills lab	Skill Development
22	19ME0321	Non-Conventional Energy Resources	Skill Development
23	19ME0353	Computer Aided Process Planning	Skill Development
24	19EE0231	Neural Networks and Fuzzy Logic	Skill Development
25	19HS0861	Business Ethics	Entrepreneurship
26	19HS0862	Strategic Management	Skill Development

Agenda: 6

Approval of syllabus for II year UG in Civil w.e.f., A.Y.2021-22 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 II year B. 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 II year has the following modifications, which are given in the below table.

II B.Tech

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Strength of Materials - II	Strength of Materials	17
2	Surveying & Geomatics	Surveying & Geomatics	0
3	Strength of Materials Lab	Strength of Materials Lab	0
4	Surveying Lab	Surveying Lab	8

5		Building Technology	100
6	Computer Aided Drawing Lab	Computer Aided Drawing	50
7	Fluid Mechanics	Fluid Mechanics	0
8	Engineering Geology	Engineering Geology	0
9	Structural Analysis	Structural Analysis	0
10	Fluid Mechanics & Hydraulic Machinery Lab	Fluid Mechanics & Hydraulic Machinery Lab	0
11	Engineering Geology Lab	Engineering Geology Lab	0
12	GIS Lab	Geographic Information Systems	25
13	Hydraulic Engineering	Hydraulic Engineering	0
14	Geotechnical Engineering	Geotechnical Engineering	0
15	Geotechnical Engineering Lab	Geotechnical Engineering lab	0
16	Concrete & Highway Materials Lab	Construction Materials Lab	45
17	Numerical Methods, Probability & Statistics	Numerical Methods, Probability & Statistics	0
18	Human Values and Professional Ethics	Human Values and Professional Ethics	0
19	Managerial Economics and Financial Analysis	Managerial Economics and Financial Analysis	0
20	Internship (60 hr.)	Summer Internship 2 Months after second year	0

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
II Year B.Tech CE	20	12.25

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	20CE0103	Strength of Materials	Skill Development
2	20CE0104	Surveying & Geomatics	Employability
3	20CE0106	Strength of Materials Lab	Employability
4	20CE0107	Surveying Lab	Employability
5	20CE0105	Building Technology	Skill Development
6	20CE0118	Computer Aided Drawing	Employability
7	20CE0109	Fluid Mechanics	Skill Development
8	20CE0113	Engineering Geology	Skill Development
9	20CE0115	Structural Analysis	Skill Development
10	20CE0112	Fluid Mechanics & Hydraulic Machinery	Employability

		Lab	
11	20CE0116	Engineering Geology Lab	Employability
12	20CE0110	Geographic Information Systems	Employability
13	20CE0111	Hydraulic Engineering	Skill Development
14	20CE0114	Geotechnical Engineering	Skill Development
15	20CE0117	Geotechnical Engineering lab	Employability
16	20CE0108	Construction Materials Lab	Employability
17	20HS0812	Managerial Economics and Financial Analysis	Employability
18	20HS0833	Numerical Methods, Probability & Statistics	Skill Development
19	20HS0864	Human Values and Professional Ethics	Skill Development

Agenda: 7

Approval of syllabus for the subjects offered to various branches w.e.f. 2021-22 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. 2021-22 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.

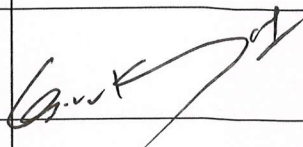
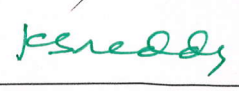

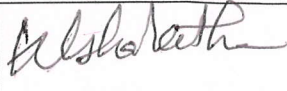
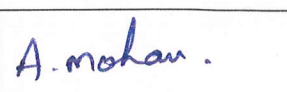
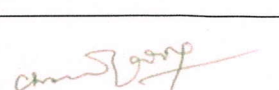
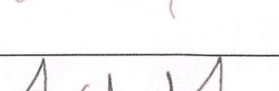
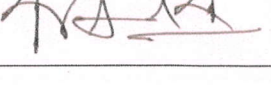
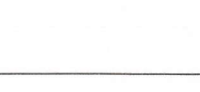
Agenda: 9

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

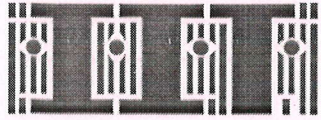
Resolution: 9

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.

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.

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	Mrs.K.Asha Latha	Assistant Professor- SIETK	Member	
5	Mr.A.Mohan	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	
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	

भारतीय प्रौद्योगिकी संस्थान तिरुपति



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14 July 2021

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 12 July 2021

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 12 July 2021 through online mode (Zoom platform). Further, I approve the course structures and syllabi for the following curricula.

1. R18 Regulation – B.Tech – IV Year
2. R19 Regulation – B.Tech – III Year
3. R20 Regulation – B.Tech – II Year

Sincerely,

Krishna Prapoorna