


Agenda for 9th Meeting of Board of Studies
for B.Tech. in Civil Engineering on 26.5.2018 @ 09:30 AM



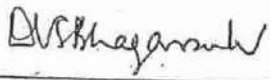
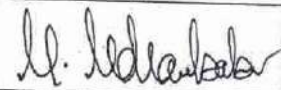
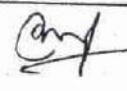
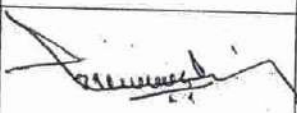
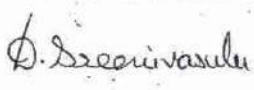
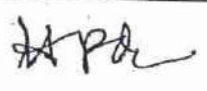
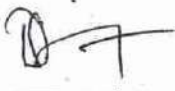
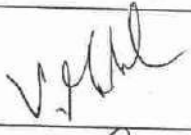

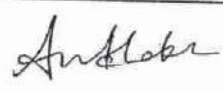
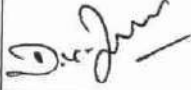
1. Action Taken Report on Minutes/ Resolutions of 8th BOS Meeting.
2. Report on Implementation of Autonomy with Respect to Syllabi and Regulations (SVEC16 II B.Tech. & SVEC14 IV B.Tech.).
3. B.Tech. Academic Calendar for 2018-19.
4. AICTE Model Curriculum-2018, Induction Training, Course Structure and Syllabi.
5. Substitute Subjects
6. Teaching, Learning and Evaluation
7. Research and Consultancy
8. Industry – Institution Interaction
9. Faculty Development Activities
10. Staff Development Activities
11. Student Developmental Activities
12. Student Support Systems
13. Extension Activities
14. Any other Item.


Dr. O. Eswara Reddy
Chairman, BOS
Civil Engineering

**9th Meeting of Board of Studies
for B.Tech. in Civil Engineering on 26.5.2018 @ 09:30 AM**

MINUTES

Members Present:

S. No.	Name	Designation	Signature
1.	Dr. O. Eswara Reddy Professor of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati - 517 102.	Chairman	
2.	Mr. A Lakshmi Narayana Engineer, Maccaferri Environmental Solutions Pvt. Ltd. 1a, First Floor, Sindhur Prestige Point, Old No. 14, New No. 33, Kasthuribai Nagar, 1st Main Road, Adyar, Chennai - 600020.	External Member (Alumni)	
3.	Dr. D. V. S. Bhagavanulu Professor of Civil Engineering and Director, SVEC, Tirupati.	Internal Member (Academics)	
4.	Dr. Babu M Matam Professor of Civil Engineering and Dean (ISA), SVEC, Tirupati.	Internal Member (Academics)	
5.	Dr. M. V. Subba Reddy Asst. Professor and Head, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
6.	Dr. P. Ramesh Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
7.	Dr. D. Sreenivasulu Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
8.	Dr. Hemadri Prasad Raju Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
9.	Mr. D. Srinivasa Murthy Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
10.	Mr. V. Mahesh Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
11.	Mr. R. Vinod Kumar Assistant Professor, Dept. of Civil Engineering, S VEC, Tirupati.	Internal Member (Academics)	
12.	Mr. B. Sudhakar Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	
13.	Mr. D. V. Purushotham Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati.	Internal Member (Academics)	

1. Action Taken Report on "Minutes of BOS Meeting held on 25-03-2017":

Chairman Dr. O. Eswara Reddy apprised the members the Minutes/Resolutions of BOS Meeting held on 25-03-2017.

Minutes of BOS Meeting held on 25-03-2017	Action Taken
Syllabi of II, III & IV B.Tech. Civil Engineering of SVEC16 Regulations were approved in the Board of Studies in Civil Engineering.	Implemented for II B.Tech. Civil Engineering I & II Semesters from the academic year 2017-2018.
Curriculum of IV B.Tech. Civil Engineering of SVEC14 Regulations were approved in the Board of Studies in Civil Engineering held on 13-04-2015.	Implemented for IV B.Tech. Civil Engineering I & II Semesters from the academic year 2017-2018.
Panels of Question Paper Setters and Model Question Papers for II B.Tech. Civil Engineering (SVEC16 Regulations) and IV B.Tech. Civil Engineering (SVEC14 Regulations).	Panels and Model Question Papers were submitted to the Principal.
B.Tech. Academic Calendar for 2017-18	Implemented for I, II, III and IV B.Tech. for the academic year 2017-2018.
Administrative Setup of Curriculum Development for B.Tech. in Civil Engineering	Implemented from the academic year 2014-2015.

The above Action Taken Report is noted for record.

2. Report on implementation of autonomy with respect to syllabi and regulations (SVEC16 Regulations: II B.Tech. CE I & II Semesters & SVEC14 Regulations: IV B.Tech. CE I & II Semesters):

Chairman-BOS presented a report on implementation of autonomy to the members. The board has congratulated the college authorities for successful implementation of SVEC16 regulations and syllabi for II B.Tech. CE I & II Semesters and SVEC14 regulations and syllabi for IV B.Tech. CE I & II Semesters (**ANNEXURE-I**).

3. Academic Calendar for the Year 2018-19:

BOS Members approved the proposed academic calendar for II, III and IV B.Tech Programmes (**ANNEXURE-II**).

4. AICTE Model Curriculum-2018-Induction Training, Course Structure and Syllabi; Proposed B.Tech. Civil Engineering Course Structure for the next Regulations:

BOS Members have taken note of AICTE Model Curriculum-2018 for B.Tech. Civil Engineering. Members discussed salient features of AICTE Model Curriculum. Members approved the proposed B.Tech. Civil Engineering Course Structure for the next Regulations with minor modifications (**ANNEXURE-III**). Members have appreciated the efforts of Chairman and Internal Members of BOS and the Department in framing B.Tech. Civil Engineering Course Structure in a best possible way. In addition the following suggestions are made for further improvement of the proposed B.Tech. Civil Engineering course structure.

1. A course on 'Biology' with one credit can be included.
2. Syllabus on 'Python' can be included in the course on 'Programming for Problem Solving' in I B.Tech. CE I semester.
3. The course on 'Computer Aided Building Planning and Drawing' can be offered in II B.Tech. CE instead of III B.Tech. CE.

4. Courses required for Professional Engineer (PE) licensing can be either included in electives or offered as add-on courses.
5. Number of courses in each semester can be increased on par with AICTE Model Curriculum-2018 preferably with one or two credits.

5. Substitute Subjects:

Resolved to authorize the Chairman, BOS in Civil Engineering to finalize the substitute subjects as and when required and forward the same to the Chairman, Academic Council for further action.

6. Teaching, Learning and Evaluation:

Members were apprised of the workload distribution, time tables, teaching plan and schedules. The members have appreciated the good practices followed by the department in conducting diagnostic test, formative tests, remedial and reinforcement classes as well as offering of the necessary add-on courses (ANNEXURE-IV).

For further improvement of student curriculum, it is suggested to concentrate more on reinforcement classes, student seminars, workshops, symposia and technical paper presentations.

7. Research and Consultancy:

Members were apprised of the Research Initiatives at the Departmental level. They suggested certain thrust areas in which research proposals may be sent to the funding agencies.(ANNEXURE-V).

8. Industry – Institution Interaction:

Members were apprised of the initiatives taken by the department to improve industry – institution interaction with respect to training, research and consultancy through internships, guest lectures, workshops, seminars. Members suggested to invite more industry experts to the campus and make use of them (ANNEXURE-VI).

9. Faculty Development Activities:

Members noted the list of publications and paper presentations by the members of the faculty. Also they were informed of the incentives given by the Management for their academic achievements (ANNEXURE-VII).

The faculty members are advised to publish only in reputed refereed journals having good impact factor.

Members were apprised of the faculty who had attended and organized the Faculty Development Programmes. Members suggested the thrust areas in which faculty are to be trained. Further, the Members taken note of Training Need Analysis for the academic year 2018-19. Resolved to authorize the Chairman, BOS in Civil Engineering to approve the TNA after updation by the head of the department as and when required.

Members noted the feedback mechanism followed by the Department for monitoring and improvement in teaching.

10. Staff Development Activities:

Members were apprised the staff development programmes attended by the non-teaching personnel to improve their productive outcome for the benefit of self and department. Further, they took note of the staff development programmes organized by the department and TNA for the academic year 2018-19 (ANNEXURE-VIII).

11. Student Development Activities:

Members were informed about equity action plan & remediation, guest/expert lectures, industrial/site visits organized by the Department for the benefit of students. **(ANNEXURE-IX).**

Members took note of the paper presentations by the students at National level Seminar/Symposia/Conferences etc. and in Mohana Mantra, a Student National Level Techno Cultural Fest Symposium conducted every year in the College.

Members were apprised the prizes, awards and recognitions achieved by the students both in co-curricular and extra-curricular activities. Members have expressed their satisfaction regarding the student development activities.

12. Student Support Systems:

Members took note of the counseling mechanisms followed for overall improvement of the students and also the Campus Placement Related Skills (CPRS) programme conducted for better performance in placement related activities. They were apprised of the details of placement, QEEE training and training on Entrepreneurship during the last one year **(ANNEXURE-X).**

13. Extension Activities:

Members were informed about the students' active participation in various extension activities like NSS, blood donation camps, outreach activities, American Society of Civil Engineers Sree Vidyanikethan Engineering College (ASCE SVEC) Student Chapter activities and Intellectual Association of Civil Engineers (IACE) activities setc. **(ANNEXURE-XI).**

Meeting concluded with thanks to the Members.


Dr. O. Eswara Reddy
Chairman

Board of Studies in Civil Engineering

Approved Course Structure

Program: B.Tech.- Civil Engineering

Regulations: SVEC-16

S. No.	Course Code	Course Title	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
I Year - I Semester										
1.	16BT1HS01	Technical English	3	1	0	4	3	30	70	100
2.	16BT1BS01	Engineering Chemistry	3	1	0	4	3	30	70	100
3.	16BT1BS03	Matrices and Numerical Methods	3	1	0	4	3	30	70	100
4.	16BT1BS04	Multi-Variable Calculus and Differential Equations	3	1	0	4	3	30	70	100
5.	16BT10501	Programming in C	3	1	0	4	3	30	70	100
6.	16BT1HS31	English Language Lab	0	0	3	3	2	50	50	100
7.	16BT1BS31	Engineering Chemistry Lab	0	0	3	3	2	50	50	100
8.	16BT10331	Computer Aided Engineering Drawing	0	1	6	7	3	50	50	100
9.	16BT10531	Programming in C Lab	0	0	3	3	2	50	50	100
Total			15	6	15	36	24	350	550	900

S. No.	Course Code	Course Title	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Internal Marks	External Marks	Total Marks
I Year - II Semester										
1.	16BT1BS02	Engineering Physics	3	1	0	4	3	30	70	100
2.	16BT2BS01	Transformation Techniques and Partial Differential Equations	3	1	0	4	3	30	70	100
3.	16BT20101	Building Materials and Construction Technology	3	1	0	4	3	30	70	100
4.	16BT20102	Engineering Mechanics	4	1	0	5	4	30	70	100
5.	16BT20241	Basic Electrical and Electronics Engineering	3	1	0	4	3	30	70	100
6.	16BT1BS32	Engineering Physics Lab	0	0	3	3	2	50	50	100
7.	16BT20131	Building Materials and Construction Technology Lab	0	0	3	3	2	50	50	100
8.	16BT20252	MATLAB Practice for Civil Engineers	0	1	3	4	2	50	50	100
9.	16BT20331	Engineering Workshop Practice	0	0	3	3	2	50	50	100
Total			16	6	12	34	24	350	550	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
II Year - I Semester											
1.	16BT3BS01	Probability Distributions and Statistical Methods	BS	3	1	0	4	3	30	70	100
2.	16BT3HS02	Managerial Economics and Principles of Accountancy	HS	3	1	0	4	3	30	70	100
3.	16BT30101	Construction Planning and Project Management	PC	3	1	0	4	3	30	70	100
4.	16BT30102	Fluid Mechanics and Hydraulic Machinery	PC	3	1	0	4	3	30	70	100
5.	16BT30103	Mechanics of Solids	ES	3	1	0	4	3	30	70	100
6.	16BT30104	Surveying	PC	3	1	0	4	3	30	70	100
7.	16BT30131	Fluid Mechanics and Hydraulic Machinery Lab	PC	0	0	3	3	2	50	50	100
8.	16BT30132	Strength of Materials Lab	PC	0	0	3	3	2	50	50	100
9.	16BT30133	Surveying Lab	PC	0	0	3	3	2	50	50	100
Total				18	6	9	33	24	330	570	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
II Year - II Semester											
1.	16BT3HS01	Environmental Studies	HS	3	0	0	3	3	30	70	100
2.	16BT40101	Concrete Technology	PC	3	1	0	4	3	30	70	100
3.	16BT40102	Engineering Geology	PC	3	1	0	4	3	30	70	100
4.	16BT40103	Engineering Hydrology	PC	3	1	0	4	3	30	70	100
5.	16BT40104	Structural Analysis-I	PC	3	1	0	4	3	30	70	100
6.	16BT40105	Water Supply Engineering	PC	3	1	0	4	3	30	70	100
7.	16BT40131	Concrete Technology Lab	PC	0	0	3	3	2	50	50	100
8.	16BT40132	Engineering Geology Lab	PC	0	0	3	3	2	50	50	100
9.	16BT4HS31	Soft Skills Lab	HS	0	0	3	3	2	50	50	100
Total				18	5	9	32	24	330	570	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
III Year - I Semester											
1.	16BT50101	Irrigation Engineering	PC	3	1	0	4	3	30	70	100
2.	16BT50102	Reinforced Cement Concrete Structures	PC	3	1	0	4	3	30	70	100
3.	16BT50103	Soil Mechanics	PC	3	1	0	4	3	30	70	100
4.	16BT50104	Structural Analysis-II	PC	3	1	0	4	3	30	70	100
5.	16BT50105	Wastewater Technology	PC	3	1	0	4	3	30	70	100
6.	Interdisciplinary Elective-1		IDE	3	1	0	4	3	30	70	100
	16BT50441 16BT5HS02 16BT50241 16BT70308	1. Principles of Image Processing 2. Costing and Finance Management for Civil Engineers 3. Renewable Energy 4. Computational Fluid Dynamics									
7.	16BT50131	Computer Aided Building Planning and Drawing	PC	0	1	3	4	2	50	50	100
8.	16BT50132	Environmental Engineering Lab	PC	0	0	3	3	2	50	50	100
9.	16BT50133	Geotechnical Engineering Lab	PC	0	0	3	3	2	50	50	100
Total				18	7	9	34	24	330	570	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
III Year - II Semester											
1.	16BT60101	Foundation Engineering	PC	3	1	0	4	3	30	70	100
2.	16BT60102	Highway and Traffic Engineering	PC	3	1	0	4	3	30	70	100
3.	16BT60103	Steel Structures	PC	3	1	0	4	3	30	70	100
4.	Interdisciplinary Elective-2		IDE	3	1	0	4	3	30	70	100
	16BT40502 16BT50341 16BT60104 16BT60241	1. Data Base Management Systems 2. Optimization Techniques 3. Fire Engineering 4. Energy Audit and Conservation									
5.	Program Elective – 1		PE	3	1	0	4	3	30	70	100
	16BT60105 16BT60106 16BT60107 16BT60108 16BT60109 16BT60110 16BT60111	1. Advanced Reinforced Cement Concrete Structures 2. Advanced Structural Analysis 3. Advanced Surveying 4. Geoenvironmental Engineering 5. Groundwater Development and Management 6. Solid Waste Management 7. Structural Health Monitoring									
6.		Open Elective	OE	3	1	0	4	3	30	70	100
7.	16BT60131	Computer Aided Design and Detailing Lab	PC	0	0	3	3	2	50	50	100
8.	16BT60132	Highway Engineering Lab	PC	0	0	3	3	2	50	50	100
9.	16BT60133	Seminar	EEC	0	0	0	0	2	-	100	100
10.	16BT6MOOC	MOOC	-	-	-	-	-	-	-	-	-
Total				18	6	6	30	24	280	620	900

LIST OF OPEN ELECTIVES

Sl. No.	Course Code	Open Elective Course Title	Sl. No.	Course Code	Open Elective Course Title
1.	16BT6HS01	Banking and Insurance	16.	16BT60114	Disaster Mitigation and Management
2.	16BT6HS02	Business Communication and Career Skills	17.	16BT60115	Environmental Pollution and Control
3.	16BT6HS03	Cost Accounting and Financial Management	18.	16BT60116	Planning for Sustainable Development
4.	16BT6HS04	Entrepreneurship for Micro, Small and Medium Enterprises	19.	16BT60117	Professional Ethics
5.	16BT6HS05	French Language	20.	16BT60118	Rural Technology
6.	16BT6HS06	German Language	21.	16BT60308	Global Strategy and Technology
7.	16BT6HS07	Indian Constitution	22.	16BT60309	IPR and Management
8.	16BT6HS08	Indian Economy	23.	16BT60310	Managing Innovation and Entrepreneurship
9.	16BT6HS09	Indian Heritage and Culture	24.	16BT60311	Material Science
10.	16BT6HS10	Indian History	25.	16BT70412	Green Technologies
11.	16BT6HS11	Personality Development	26.	16BT70413	Introduction to Nanoscience and Technology
12.	16BT6HS12	Philosophy of Education	27.	16BT60505	Engineering System Analysis and Design
13.	16BT6HS13	Public Administration	28.	16BT71011	Micro-Electro-Mechanical Systems
14.	16BT60112	Building Maintenance and Repair	29.	16BT61205	Cyber Security and Laws
15.	16BT60113	Contract Laws and Regulations	30.	16BT61505	Bio-informatics

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
IV Year - I Semester											
1.	16BT70101	Estimation and Quantity Surveying	PC	3	1	0	4	3	30	70	100
2.	16BT70102	Geospatial Technologies	PC	3	1	0	4	3	30	70	100
3.	16BT70103	Railway, Airport and Harbour Engineering	PC	3	1	0	4	3	30	70	100
4.	Program Elective – 2		PE	3	1	0	4	3	30	70	100
	16BT70104	Advanced Foundation Engineering									
	16BT70105	Architecture and Town Planning									
	16BT70106	Environmental Impact Assessment and Management									
	16BT70107	Global Positioning System (GPS)									
	16BT70108	Structural Dynamics									
	16BT70109	Transportation Planning and Management									
	16BT70110	Water Resources Systems Planning and Management									
5.	Program Elective – 3		PE	3	1	0	4	3	30	70	100
	16BT70111	Advanced Steel Structures									
	16BT70112	Earthquake Resistant Design of Structures									
	16BT70113	Highway Construction and Maintenance									
	16BT70114	Industrial Wastewater Treatment									
	16BT70115	Infrastructure Development and Management									
	16BT70116	Soil Dynamics and Machine Foundations									
	16BT70117	Watershed Management									
6.	Program Elective – 4		PE	3	1	0	4	3	30	70	100
	16BT70118	Air Pollution and Control									
	16BT70119	Bridge Engineering									
	16BT70120	Ground Improvement Techniques									
	16BT70121	Hydro Power Engineering									
	16BT70122	Pavement Analysis and Design									
	16BT70123	Prestressed Concrete Rehabilitation and Retrofitting of Structures									
	16BT70124										
7.	16BT70131	Civil Engineering Software Lab	EEC	0	0	3	3	2	50	50	100
8.	16BT70132	Remote Sensing and Geographical Information Systems Lab	PC	0	0	3	3	2	50	50	100
9.	16BT70133	Comprehensive Assessment	EEC	0	0	0	0	2	-	100	100
Total				18	6	6	30	24	280	620	900

S. No.	Course Code	Course Title	Course Category	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
				L	T	P	Total		Internal Marks	External Marks	Total Marks
IV Year - II Semester											
1.	16BT80131	Project Work*	EEC	0	0	0	0	12	100	100	200
Total				0	0	0	0	12	100	100	200



BOS, Chairman

LIST OF NEW COURSES INTRODUCED

Program: B.Tech.- Civil Engineering

Regulations: SVEC-16

Department	Course Code	Name of the course
CE	16BT20101	Building Materials and Construction Technology
CE	16BT20131	Building Materials and Construction Technology Lab
CE	16BT2BS01	Transformation Techniques and Partial Differential Equations
CE	16BT20252	Matlab Practice for Civil Engineers
CE	16BT4HS31	Soft Skills Lab
CE	16BT5HS02	Costing and Finance Management for Civil Engineers
CE	16BT5HS02	Costing and Finance Management for Civil Engineers
CE	16BT50441	Principles of Image Processing
CE	16BT60104	Fire Engineering
CE	16BT60107	Advanced Surveying
CE	16BT60111	Structural Health Monitoring
CE	16BT60112	Building maintenance and Repair
CE	16BT6HS05	French Language
CE	16BT6HS06	German Language
CE	16BT6HS07	Indian Constitution
CE	16BT6HS08	Indian Economy
CE	16BT6HS09	Indian Heritage and Culture
CE	16BT6HS10	Indian History
CE	16BT6HS11	Personality Development
CE	16BT6HS13	Philosophy of Education
CE	16BT6HS13	Public Administration
CE	16BT60241	Energy Audit and Conservation
CE	16BT70413	Introduction to Nanoscience and Nanotechnology
CE	16BT70107	Global Positioning System (GPS)
CE	16BT70118	Air Pollution and Control
CE	16BT70121	Hydro Power Engineering
CE	16BT70122	Pavement Analysis and Design
CE	16BT70131	Civil Engineering Software Lab



BOS, Chairman