


Agenda for 11th Meeting of Board of Studies for B. Tech.
(Civil Engineering) on 15.07.2020 at 10:00 AM

1. Action Taken Report on Minutes/ Resolutions of 10th BOS Meeting
2. Report on Implementation of Autonomy with Respect to Syllabi & Academic Regulations for IV B.Tech. (under SVEC16) and I B.Tech under SVEC-19 regulations.
3. Academic Calendar for I, II, III and IV Year B.Tech. for 2020-21
4. Administrative setup for B.Tech. Program
5. Syllabi with Course Objectives & Course Outcomes, Lesson Plans and Model Question Papers for Courses of **II B.Tech.** (Under SVEC19)
6. Panel of Examiners for Question Paper Setting for II B.Tech. Courses (Under SVEC19)
7. Amendments to SVEC19 B.Tech. Academic Regulations
8. Implementation of Teaching, Learning and Evaluation Process
9. Substitute Courses
10. Research and Consultancy
11. Faculty Development Activities
12. Staff Development Activities
13. Student Development Activities
14. Student Support Systems
15. Extension Activities
16. Any other Item



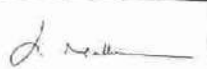




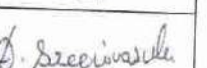
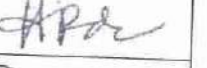









Dr. O. ESWARA REDDY
Chairman
BOS in Civil Engineering

11th Meeting of Board of Studies
for B.Tech. in Civil Engineering on 15.07.2020 @ 10:00 AM

MINUTES

Members Present:

| S. No. | Name | Designation | Signature |
|--------|---|--------------------------------|---|
| 1. | Dr. O. Eswara Reddy Professor and HoD, Dept. of Civil Engineering, Sree Vidyanikethan Engineering College (Autonomous), Tirupati – 517 102. | Chairman |  |
| 2. | Dr. T. D. Gunneswara Rao Professor, Department of Civil Engg., National Institute of Technology, Warangal – 506004. | External Member (Academics) |  |
| 3. | Dr. P. Mallikarjuna Professor, Dept. of Civil Engineering, S. V. U. College of Engineering, S. V. University, Tirupati-517502 | External Member (Academics) |  |
| 4. | Dr. P. R. Bhanu Murthy Professor & BOS Chairman (PG), Department of Civil Engineering, JNTUA University Anantapur, Ananthapuramu-515 002. | External Member (Academics) |  |
| 5. | Mr. A. T. Samuel Director STUP Consultants Pvt. Ltd., A1 - Tower, 5th & 6th Floors, Golden Enclave, HAL Airport Road, Bengaluru-560 017. | External Member (Industry) |  |
| 6. | Mr. P. S. Harshit Senior Engineer (Technical) Reinforced Soil Wall Unit, Maccaferri Environmental Solutions Pvt. Ltd, Golf Course Extension Road, Sector – 66, Gurgaon, Haryana – 122001. | External Member (Alumni) |  |
| 7. | Dr. P. Ramesh Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 8. | Dr. D. Sreenivasulu Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 9. | Dr. Hemadri Prasad Raju Associate Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 10. | Mr. D. Srinivasa Murthy Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 11. | Mrs. G. Gnana Prasanna Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 12. | Mr. V. Prem Kumar, Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 13. | Mr. M. Gokulnath Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 14. | Mr. D. V. Purushotham Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 15. | Mr. M. P. Charan Sai Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |
| 16. | Mr. Manish Dutta Assistant Professor, Dept. of Civil Engineering, SVEC, Tirupati. | Internal Member (Academics) |  |

1. Action Taken Report on "Minutes of BOS Meeting held on 10-06-2019":

Chairman Dr. O. Eswara Reddy apprised the members the Minutes/Resolutions of BOS Meeting held on 10-06-2019.

| Minutes of BOS Meeting held on 10-06-2019 | Action Taken |
|--|---|
| Syllabi of II, III & IV B.Tech. Civil Engineering of SVEC16 Regulations were approved in the Board of Studies in Civil Engineering Meeting held on 25-03-2017. | Implemented for IV B.Tech. Civil Engineering I & II Semesters from the academic year 2019-2020. |
| Vision and Mission of the Department, PEOs, POs & PSOs and Course Structure (All 4 years) of B. Tech. Program in Civil Engineering under SVEC-19 Curriculum. | Implemented from the academic year 2019-20. |
| Syllabi of I B.Tech. Civil Engineering of SVEC-19 Regulations. | Implemented for I B.Tech. Civil Engineering I & II Semesters from the academic year 2019-2020. |
| Panels of Question Paper Setters and Model Question Papers for IV B.Tech. Civil Engineering (SVEC16 Regulations) and I B.Tech. Civil Engineering (SVEC19 Regulations). | Panels and Model Question Papers were submitted to the Principal. |
| B.Tech. Academic Calendar for 2019-20 | Implemented for I, II, III and IV B.Tech. for the academic year 2019-2020. |
| 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: IV B.Tech. CE I & II Semesters & SVEC19 Regulations: I 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 III B.Tech. CE I & II semesters and SVEC19 regulations and syllabi for I B.Tech. CE I & II semesters (**ANNEXURE-I**).

3. Academic Calendar for the Year 2020-21:

Members of B.O.S have been apprised that the Chairman, Academic Council is empowered to prepare the Academic calendar pertaining to I, II, III and IV B.Tech program for the academic year 2020-21, in accordance with the A. P. State Government/APSCE/JNTUA, Ananthapuramu directives.

4. Administrative Setup for B.Tech. Program in Civil Engineering:

The BOS members were apprised the administrative set-up followed in curriculum development for B.Tech. Civil Engineering program since the academic year 2014-2015. Members appreciated the process.

5. Syllabi with Course Objectives & Course Outcomes, Lesson Plans and Model Question Papers for Courses of II B.Tech. Civil Engineering (Under SVEC-19):

BOS Members approved the proposed Syllabi with Course Objectives & Outcomes, Lesson Plans and Question Papers of civil engineering core courses of II B. Tech. Civil Engineering of SVEC19 Regulations (**ANNEXURE-II**). Members have

appreciated the efforts of Chairman and Internal Members of BOS and the Department in framing syllabi in a best possible way. Members were apprised of the Syllabi of other courses of II B.Tech. Civil Engineering. In addition, the following suggestions are made for further improvement.

1. Suggested to maintain the lab course evaluation marks distribution similar to that of theory courses i.e., 40 Marks (Internal) and 60 Marks (External) instead of 50 Marks (Internal) and 50 Marks (External).
2. The title of the course "Mechanics of Solids" may be changed to "Strength of Materials".
3. Course codes may be redesigned incorporating the concerned branch i.e., CE, course type i.e., PC/PE/EC/HS/BS along with the semester instead of 19BT30101.
4. Theory and lab should be offered as a single course as per AICTE Model Curriculum.
5. Theory and lab titles should go in tandem
6. Course content of Fluid Mechanics course should be rearranged as suggested below.
 - a) UNIT-I: Topics on "Hydrostatic forces on curved surfaces, Stability of floating bodies" should be added at the end.
 - b) UNIT-II:
 - Topic on "vortex flows" after Bernoulli's equation and application.
 - Suggested to remove topics on "Venturimeter, Orificemeter and Pitot tube" and the same may be included in UNIT -III.
 - Topics on "Moment of momentum equation and its application, Torque on Sprinklers" should be added at the end of the unit.
 - c) UNIT-III:
 - Suggested to add topics on "Venturimeter, Orificemeter and Pitot tube" before Orifices and mouthpieces.
 - Topic on "Moody's chart" should be moved to Unit-IV.
 - Topic on "Latest velocity measuring devices" can be replaced with "Latest flow measuring devices".
 - d) UNIT-IV:
 - Move the topic on "Hagen Poiseuille equation" from the present position to the position immediately after laminar flow through circular pipes.
 - Topic on "Moody's chart" should be added at the end of the unit.
 - e) UNIT-V:
 - Suggested to replace the topic on "Forces on submerged bodies" with "Resistance on floating and submerged bodies"
 - Suggested to remove the topic on "Drag and lift".
 - f) ADDITIONAL LEARNING RESOURCES:
 - Suggested to add the following textbook as additional reference:
Streeter, V. L., Wylie, E. B. and Bedford, K. W., *Fluid Mechanics*, McGraw Hill Book Company, New York, 9th Edition, Indian Edition, 2017.
7. Reorganize the units in the course on "Mechanics of Solids". Unit-I: Principal Stresses and Strains and Theories of Failure should be offered as Unit-IV after the next first three units. The following text book may be added in additional learning resources.
T. D. Gunneswara Rao and Mudimby Andal, *Strength of Materials: Fundamentals and Applications*, Cambridge University Press, 1st Edition, 2018.
8. Relevant IS Codes should be added for reference at the end in syllabus of the lab course on "Civil Engineering Materials and Construction Technology Workshop"
9. Suggested to discuss the effects of Poisson's ratio and modulus of elasticity on strength of materials during the delivery of the course on "Strength of Materials Lab"

10. Suggested to discuss the effects of pH value of sewage, alkalinity, water quality should be explained during the delivery of the course on "Environmental Engineering Lab"
11. Suggested to replace the topic on "Drinking water standards" with "Drinking water quality analysis and standards" in Unit-I of the theory course on "Environmental Engineering".
12. Suggested to discuss the topic on "Water Balance Cycle" during the delivery of the course on "Environmental Engineering"
13. Suggested to develop a Theme Park on "Sustainability and Water Balance Cycle" in an area of 1 to 2 acres.
14. Suggested to add the topics on "Flow around submerged bodies, Drag and lift" at the end of Unit-I, "Surges" at the end of Unit-II of the theory course on "Hydraulic Engineering"
15. Suggested to add the topic on "Moving loads" at the start of Unit-V and its title of the theory course on "Structural Analysis".
16. Suggested to remove the pre-requisite for the mandatory theory course on "Environmental Science".

6. Panel of Examiners for Question Paper Setting for II B.Tech. Civil Engineering Courses (Under SVEC-19):

Members were apprised of the Panel of Examiners for Question Paper Setting for core courses of II B.Tech. in Civil Engineering (SVEC19) (**ANNEXURE-III**). Resolved to authorize the Chairman, BOS in Civil Engineering to make changes if necessary in Panel of Examiners for Question Paper Setting for each core theory courses of II B.Tech. and furnish to the Chairman, Academic Council for further action within fifteen days after the commencement of the semester.

7. Amendments to SVEC19 B.Tech. Academic Regulations:

Members were apprised of the proposed amendments to SVEC19 B.Tech. Academic Regulations (**ANNEXURE-IV**). Members appreciated and approved the amendments for implementation with effect from the academic year 2020-21. In addition, the following suggestions are made for further improvement.

- Clause 23. Re-Registration for Improvement of Internal Marks:
A limit on the maximum number of courses permitted for reregistration of failed courses after 4 years may be included.

8. Implementation of Teaching, Learning and Evaluation Process:

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-V**).

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

9. 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.

10. 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-VI**).

11. 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 2020-21. 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.

12. 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 2020-21 (**ANNEXURE-VIII**).

13. 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.

14. 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**).

15. 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, Indian Geotechnical Society Sree Vidyanikethan Engineering College (IGS 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