



SRI VENKATESWARA COLLEGE OF ENGINEERING
(An Autonomous Institution, affiliated to Anna University Chennai)
Pennalur, Sriperumbudur-Tk
DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF THE BOARD OF STUDIES MEETING

Date of meeting : 18-04-2024 (Thursday) , Online Mode

Time:1.30 P.M

Google meet link : [meet.google.com/ ofp-mvad-gxt](https://meet.google.com/ofp-mvad-gxt)

The Board of Studies meeting for the Faculty of Civil Engineering was held on 18.04.2024 at 1.30 pm through Online mode and the following members were present:

S.No.	Name with Designation and Address	Category
1.	Dr. R. Kumutha Professor & Head Dept. of Civil Engineering, SVCE	Chairman, BoS
2.	Dr. P. Ramadoss Professor, Dept. of Civil Engineering Puducherry Technological University Pillaichavadi, Puducherry - 605014	University Nominee
3.	Dr. S. T. Ramesh Professor, Dept. of Civil Engineering, National Institute of Technology Tiruchirapalli - 620015	Member -Subject Expert
4.	Dr. R. Saravanan Professor Department of Civil Engineering, College of Engineering Guindy Anna University, Chennai – 600025.	Member -Subject Expert
5.	Mr. G T Koteeswaran Senior Manager Project Management -CBRE Chennai Perungudi - 600096	Member -Industrial Expert
6.	Mr. Sai Prasad Vijayakumar Associate Proposals Manager Global Competence Centre (G3C) NKT Operations India Pvt. Ltd, Guindy Chennai – 600032	Member -Alumnus
7.	Dr. P. Venkateswara Rao, Professor/Civil, SVCE	Member
8.	Dr. M. Selvakumar, Associate Professor/Civil, SVCE	Member
9.	Dr. R. Sathia, Associate Professor/Civil, SVCE	Member
10.	Ms. Ruby Freya, Assistant Professor/Civil, SVCE	Member

11.	Mr. G. Arun, Assistant Professor/Civil, SVCE	Member
12.	Mr. R. Mathiyazhagan, Assistant Professor/Civil, SVCE	Member
13.	Mr. R. Kalaivannan, Assistant Professor/Civil, SVCE	Member
14.	Mr.S.Hariswaran, Assistant Professor/Civil, SVCE	Member
15.	Mr. A.Vijay Vignesh, Assistant Professor/Civil, SVCE	Member

AGENDA:

- Syllabi – 5th to 8th Semesters in R2022
- Syllabi – Professional Electives in R2022
- Addition of a Professional elective course ‘Design of Bridges’ under Structural Engineering Vertical
- New Value Added Course - Plumbing For Water And Sanitation
- Semester Abroad Program (SAP) and Semester in Industry Program (SIP)
- Curriculum and Syllabi -M.E. Construction Engineering and Management Program
- Draft Curriculum - B.E. Civil Engineering Program (for Working Professionals)
- Vision and Mission Statements –Revision
- 2023-24 Odd Semester Results
- Any Other

1. The Chairperson welcomed all the members of the board of studies.
2. Mr. G T Koteeswaran, Senior Manager - Project Management, CBRE Chennai was introduced to all the members as the new industrial expert.
3. She also acknowledged the late Dr S Justin, former industrial expert member for his contributions to the BOS.
4. The agenda of the meeting was briefed to the members.
5. The Chairman presented the department profile.
6. The salient features of Regulations -2022 were highlighted.
7. The Chairperson mentioned that the curriculum and syllabi of sem 1 to 4 were approved in previous BoS and Academic Council Meeting.
8. The approved curriculum of the B.E Civil Engineering was presented.
9. The syllabi for 5th to 8th semesters and Professional electives were shared by Ms.Ruby Freya and discussions were held on the newly added topics and courses with the faculty members who have designed the course contents as follows:

Sem	Course Title	T/P	L	T	P	C	Course content designed by
5	Structural Analysis II	T	3	0	0	3	Dr. R. Kumutha / Ms. Ruby Freya
5	Design of Reinforced Concrete Elements	T	3	1	0	4	Dr. R. Sathia
5	Environmental and Social Impact Assessment	T	3	0	0	3	Mr. R. Mathiyazhagan
5	Remote Sensing and GIS	T	3	0	0	3	MR. R. Kalaivannan

Sem	Course Title	T/P	L	T	P	C	Course content designed by
5	Water and Wastewater Analysis Laboratory	P	0	0	2	1	Mr. R. Mathiyazhagan
5	Structural and Applied Mechanics Laboratory	P	0	0	2	1	Dr. R. Kumutha / Ms. Ruby Freya
6	Estimation and Quantity Surveying	T	3	0	0	3	Mr. G. Arun
6	Transportation Systems	T	3	0	0	3	Dr. M. Selvakumar
6	Advanced Reinforced Concrete Design	T	3	0	0	3	Dr. R. Sathia
6	Design of Steel Structures: Theory and Practices	T&P	3	0	2	4	Ms. Ruby Freya
6	Structural Analysis and Design Laboratory	P	0	0	4	2	Ms. Ruby Freya / Mr.R. Kalaiivannan
6	Internship / Industrial Training	P	0	0		2	Ms. Ruby Freya
7	Hydrology and Irrigation Engineering	T	3	0	0	3	Mr. R. Kalaivannan
7	Ethics in Civil Engineering Practice	T	2	0	0	2	Mr. G. Arun
7	IoT in Civil Engineering	T	2	0	0	2	Mr. G. Arun
7	Planning Scheduling and Control of Construction Projects: Theory and Practices	T&P	2	0	2	3	Mr. A. Vijay Vignesh
8	Project Work	P	0	0	0	10	Ms. Ruby Freya
STRUCTURAL ENGINEERING	Concrete Technology	T	3	0	0	3	Dr. R. Kumutha
	Prestressed Concrete Structures	T	3	0	0	3	Ms. Ruby Freya
	Prefabricated Structures	T	3	0	0	3	Dr. R. Sathia
	Repair and Rehabilitation of Structures	T	3	0	0	3	Dr. R. Sathia
	Advanced Strength of Materials	T	3	0	0	3	Ms. Ruby Freya
	Structural Dynamics	T	3	0	0	3	Ms. Ruby Freya
	Earthquake Resistant Design of Structures	T	3	0	0	3	Dr. R. Sathia / Ms. Ruby Freya
	Smart Materials and Structures	T	3	0	0	3	Dr. R. Sathia
	Design of Bridges	T	3	0	0	3	Ms. Ruby Freya
ENVIRONMENTAL ENGINEERING	Municipal Solid Waste Management	T	3	0	0	3	Mr. R. Mathiyazhagan
	Environmental Policy and Legislations	T	3	0	0	3	Mr. R. Mathiyazhagan
	Environment Health and Safety	T	3	0	0	3	Mr. G. Arun
	Sustainability and Social Development	T	3	0	0	3	Mr. G. Arun

Sem	Course Title	T/P	L	T	P	C	Course content designed by
CONSTRUCTION MANAGEMENT	Construction Materials and Management	T	3	0	0	3	Mr. A. Vijay Vignesh
	Construction Equipment and Management	T	3	0	0	3	Mr. A. Vijay Vignesh
	Formwork Scaffolding and Shoring	T	3	0	0	3	Mr. A. Vijay Vignesh
	Construction Quality and Safety Management	T	3	0	0	3	Mr. A. Vijay Vignesh
	Risk Management in Construction Projects	T	3	0	0	3	Mr. A. Vijay Vignesh
	Contract Management and Dispute Resolution	T	3	0	0	3	Mr. A. Vijay Vignesh
	Sustainable Construction	T	3	0	0	3	Mr. A. Vijay Vignesh
	Building Services and Maintenance	T	3	0	0	3	Mr. A. Vijay Vignesh
TRANSPORTATION ENGINEERING	Pavement Engineering	T	3	0	0	3	Dr. M. Selvakumar
	Design of Pedestrian and Bicycle Tracks	T	3	0	0	3	Dr. M. Selvakumar
	Airport and Harbour Engineering	T	3	0	0	3	Dr. M. Selvakumar
	Urban Planning and Development	T	3	0	0	3	Dr. M. Selvakumar
	Traffic Engineering and Management	T	3	0	0	3	Dr. M. Selvakumar
	Traffic Management Plan for Construction Site	T	3	0	0	3	Dr. M. Selvakumar
	Intelligent Transportation Systems	T	3	0	0	3	Dr. M. Selvakumar
	Smart Cities	T	3	0	0	3	Dr. M. Selvakumar
GEO-INFORMATICS	Total Station and GPS Surveying	T	3	0	0	3	Mr. R. Kalaivannan
	Geo informatics and its Applications	T	3	0	0	3	Mr. R. Kalaivannan
	Geographic Information Systems	T	3	0	0	3	Mr. R. Kalaivannan
	Photogrammetry	T	3	0	0	3	Mr. R. Kalaivannan
	Cartography	T	3	0	0	3	Mr. R. Kalaivannan
	Airborne and Terrestrial laser mapping	T	3	0	0	3	Mr. R. Kalaivannan
	Satellite Image Processing	T	3	0	0	3	Mr. R. Kalaivannan
	Cadastral and Hydrographic Surveying	T	3	0	0	3	Mr. R. Kalaivannan

Sem	Course Title	T/P	L	T	P	C	Course content designed by
GEOTECHNICAL ENGINEERING	Subsurface Investigation and Instrumentation	T	3	0	0	3	Mr. S. Hariswaran
	Earth Pressure and Earth Retaining Structures	T	3	0	0	3	Mr. S. Hariswaran
	Deep Foundation	T	3	0	0	3	Mr. S. Hariswaran
	Soil Dynamics and Machine Foundations	T	3	0	0	3	Mr. S. Hariswaran
	Tunneling	T	3	0	0	3	Mr. S. Hariswaran
	Rock Mechanics	T	3	0	0	3	Mr. S. Hariswaran
	Ground Improvement Techniques	T	3	0	0	3	Mr. S. Hariswaran
	Geosynthetics Design and Applications	T	3	0	0	3	Mr. S. Hariswaran
WATER RESOURCES ENGINEERING	Groundwater Engineering	T	3	0	0	3	Mr. R. Kalaivannan
	Participatory Water Resources Management	T	3	0	0	3	Dr. P. Venkateswara Rao
	Urban Water Infrastructure	T	3	0	0	3	Dr. P. Venkateswara Rao
	Watershed Conservation and Management	T	3	0	0	3	Dr. P. Venkateswara Rao
	River Engineering	T	3	0	0	3	Dr. P. Venkateswara Rao
	Water Resources Systems Engineering	T	3	0	0	3	Dr. P. Venkateswara Rao
	Integrated Water Resources Management	T	3	0	0	3	Dr. P. Venkateswara Rao
	Environmental Hydraulics	T	3	0	0	3	Dr. P. Venkateswara Rao

- 9.1 Dr. P. Ramadoss suggested the title of unit 2 for Design of RC Elements to be ‘Design for flexure, shear and torsion’. Flanged beam need not be specifically mentioned in the title of unit.
- 9.2 The proposal to add a new course on ‘Design of Bridges’ under the Structural Engineering vertical was discussed and approved.
- 9.3 The newly introduced course on Environmental and Social Impact Assessment in the core curriculum was discussed. Dr R Saravanan and Dr S T Ramesh suggested the title of unit 1 to be ‘An Overview of EIA’ since the topics of sustainable development is not included. Dr S T Ramesh suggested that the topics in the unit 5 need to be grouped and reordered.
- 9.4 Mr R Kalaivannan mentioned that in unit 5 of Remote Sensing and GIS, civil engineering applications have been added.
- 9.5 The syllabus of the newly introduced practical course, ‘Structural and Applied Mechanics laboratory’ was discussed. It was mentioned that a new lab also has been set up for this purpose.

- 9.6 For the course on Estimation and Quantity Surveying, it was mentioned that estimation using software tool is a newly added topic. Dr Saravanan suggested that bridges also may be included in the report preparation in the unit 5. Mr G T Koteeswaran suggested the topics in unit 1 may be reordered as in the sequence of the actual construction process. Also he enquired if FIDIC considerations are included in unit 3.
- 9.7 Dr R Saravanan suggested that unit 4 could be Airport Planning and Designing in the course Transportation Systems.
- 9.8 Dr R Saravanan and Dr. S T Ramesh suggested that the topics could be elaborated in each of the units in Advanced Reinforced Concrete Design. Dr P Ramadoss suggested the unit 5 title to be just Bunkers and Silos.
- 9.9 Design of Steel Structures has been introduced as a theory cum practice course in this curriculum. Each unit contains certain practical sessions including computer applications like spreadsheets, programming language and modelling and analysis software. Dr R Saravanan clarified regarding the conduct of practical sessions and the assessment procedure. Dr S T Ramesh suggested to have minimum passing requirements in both theory and the practical components separately.
- 9.10 Groundwater hydrology need not be included under the Hydrology course or the course title has to be Water Resources and Irrigation Engineering. Dr R Saravanan suggested to change the topics in unit 3 or the course title accordingly.
- 9.11 Dr. R Saravanan clarified if all the fields of civil engineering are included in the unit 5 of the course Ethics in Civil Engineering Practices.
- 9.12 IoT in Civil Engineering is a newly introduced course. Dr P Ramadoss clarified if the unit on Structural Health Monitoring is required since it is not very relevant in this course or the unit title is to be modified according to the course title. Dr R Saravanan suggested to include topics on rainfall measurements and stream flow in the fifth unit. The expansion of IoT - Internet of Things need to be included in the course content. The syllabus needs to be modified before getting approved. Dr S T Ramesh suggested that the NPTEL course content and the sequence may be referred.
- 9.13 The list of verticals and the courses under each vertical were displayed.
- 9.14 Dr S T Ramesh suggested that Advanced Strength of Materials course may be ordered before Repair and Rehabilitation of Structures in the order of courses under the Structural Engineering Vertical.
- 9.15 Dr. S T Ramesh suggested that the course content shall be reduced for the courses under the Transportation Engineering vertical.
- 9.16 Dr S T Ramesh suggested a few corrections in the course Municipal Solid Waste Management. "Municipal solid waste handling and management rules" to be included in the unit 1. Also, topics under dump site rehabilitation can be elaborated.
- 9.17 Dr. S T Ramesh suggested to change the title of 5th unit of the course Sustainability and Social Development.

10. The Chairperson presented the syllabus for a Valued Added Course on Plumbing for Water and Sanitation as this course was recommended by AICTE which is included in their model curriculum as an open elective. The course content was designed by Mr. G. Arun and Mr. R. Mathiyazhagan.
11. The chairperson briefed on the salient features of the semester abroad program and semester in industry program.
12. The curriculum and syllabi of M.E construction Engineering and management was presented by the Chairperson. She also mentioned that the curriculum and syllabi were circulated through mail to all the members already and got approved through circular resolutions.
13. Mr. A. Vijay Vignesh highlighted the syllabus of the practical courses introduced in M.E. program.
14. The Chairperson presented the draft curriculum with 7 semesters for BE Civil Engineering program for Working Professionals. Also the guidelines by the AICTE regarding this program were discussed.
15. The Chairperson presented the revised department vision and mission statements which is aligned with the latest college vision and mission statements and the members approved the same. The statements are as given below.

College Vision and Mission (Revised)

VISION

To gain acclaim as an institution of eminence on a national and global scale, through the contributions and accomplishments of individuals, nurtured by the facilities and support.

MISSION

- Establish a motivational framework that actively engages the individuals in core activities of learning, education, research and innovation.
- Advance the competency of people to comprehend the requirements and provide solutions through honing of their skills and virtues.
- Provide Engineering and technological solutions for challenges identified at National and global levels.

Department Vision and Mission (Revised)

VISION

To become a department of excellence in Civil Engineering education and research with a supportive infrastructure, transforming individuals into globally competent civil engineers to serve the industry and society.

MISSION

- Establish a top-notch learning environment with cutting-edge resources and facilities facilitating education, research, innovation and consultancy activities.
- Promote lifelong learning to provide solutions for real world problems with moral and ethical values by developing their skills and competency in the emerging fields of Civil Engineering.

- Offer technical and engineering solutions to the issues and challenges that arise in the construction industry at National and Global levels. The odd semester results of the academic year 2023-24 were also discussed.
16. The Chairperson thanked the members for their valuable suggestion and also thanked the internal faculty members for involving in the design of the course content.
17. The Chairman informed that the suggestions and recommendations made by the members will be carried out and will be forwarded to the Academic Council of SVCE for approval.

Resolutions:

1. It is resolved to approve the syllabi of 5th to 8th semesters and Professional Elective courses under R2022 – B.E Civil Engineering.
2. It is resolved to approve the addition of a Professional elective course – ‘Design of Bridges’ under Structural Engineering Vertical.
3. It is resolved to approve the syllabi of the new Value Added Course on Plumbing for Water and Sanitation under R2022.
4. It is resolved to approve the curriculum and syllabi of the new program on M.E Construction Engineering and Management under R2022.
5. It is resolved to approve the proposed draft curriculum of the new program on B.E Civil Engineering for Working Professionals under R2022.
6. It is resolved to approve the revised vision and mission statements of the department.




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