

SRI VENKATESWARA COLLEGE OF ENGINEERING
(An Autonomous Institution: Affiliated to Anna University, Chennai – 25)
MINUTES OF XIX ACADEMIC COUNCIL MEETING

Ref.: AC MIN/2023-24/19

Date & Time: 09.05.2024, 10.00 AM

Mode: Mixed

Venue: Conference Hall - Central Library – SVCE

Meet link: meet.google.com/rco-rskc-hes

Members present:

01.	Dr. S. Ganesh Vaidyanathan, Principal/SVCE, Chairperson	14	Prof. S. Shanmugam HoD/MAR, Member
02.	Dr. Alamelu Nachiappan (Through Online) Professor/ Department of Electrical and Electronics Engineering, Puducherry Technological University, Puducherry – 605 014, AU Nominee	15.	Dr.S. Ramesh Babu, HoD/MEC, Member
03.	Dr. V. Jeyalakshmi Professor/Department of Electronics and Communication Engineering, CEG Campus, Anna University, Chennai, AU Nominee	16.	Dr. A. Bhaskar, Professor/APH, Chairperson, S&H Board Member
04.	Mr. K. Shankar Director, CREVAC TECH PRIVATE LIMITED, Industrial Expert Member	17.	Dr. K. S. Badrinathan, Dean/Educational Development, Member – Faculty of the College
05.	Mr. S. Ravichandran Chief Operating Officer, Delphi-TVS, Chennai, Industrial Expert Member	18.	Dr. Sudhakar K Bharatan Professor/EEE, SVCE, Member – Faculty of the College
06.	Dr. N. Kumaravel, Professor of Eminence, Anna University, Subject Expert Member	19.	Dr. K. Divakar Asso. Professor/BIO, SVCE, Member – Faculty of the College
07.	Dr. J. Venkatesan, HoD/AUT, Chairperson, Mech Board, Member	20.	Ms. Ruby Freya, AP/CIVIL, SVCE, Member – Faculty of the College
08.	Dr. E. Nakkeeran, HoD/BIO, Member	21.	Prof. R. Muthucumaraswamy, HoD/Applied Mathematics Special Invitee
09.	Dr.N.Meyyappan, HoD/CHE, Chairperson, Technology Board, Member	22.	Prof. T. Murugavel, HoD/Humanities and Social science/ Special Invitee
10.	Dr.R.Kumutha, HoD/CVE, Chairperson, CIVIL Board, Member	23.	Dr. S. Gopinath Dean/IQAC – Special Invitee
11.	Dr.R.Anitha, HoD/CSE, Chairperson, CSE &IT Board Member	24.	Dr. M. Prem Ananth, DCoE/SVCE, Recording Member
12.	Dr.K.R.Santha, HoD/EEE, Chairperson, EEE Board Member	25.	Dr. M. Sivanandham Secretary/SVEHT, Permanent Invitee
13.	Dr. G. A. Sathish Kumar, HoD/ECE – Chairperson, ECE Board. Member	26.	Dr. K. Pitchandi, CoE/SVCE Member Secretary

19.1 WELCOME NOTE AND CHAIRPERSON ADDRESS

The Chairperson welcomed all the members and introduced the Anna university nominees to the other members. He mentioned that all the members are present in the meeting except Dr. Chandrasekhar, Professor, Department of Chemical Engineering, Pondicherry Technological University, and Dr. V. Vidya Prof and Head/INT, SVCE who requested leave of absence due to their pre occupied commitment. He further explained the agenda points of the meeting to the members as follows.

1. Approval of 18th and 18A Academic Council Meetings (held on 18.10.2023 and circular resolutions) Minutes sent through E mails on 25.11.2023 and 14.01.2024, respectively. The updated minutes of the meeting is attached herewith for your ready reference.
2. Relative grading for practical courses in Regulation 2022.
3. Changes in the regulation- R22: Inclusion of "Semester in an Industry" program.
4. Blended learning for the courses studied under Honours and Minor schemes.
5. Inclusion of Mr.G.T. Koteeswaran, Senior Manager, Project Management, CBRE, Chennai in the Board of Studies of Faculty of Civil Engineering in place of Dr.S. Justin, Joint General Manager - Design, EDRC, L & T Construction, Chennai due to his unfortunate demise.
6. Inclusion Dr. S. Anbarasu, Associate Professor, Department of Applied science and humanities, MIT Campus, Anna University in the place of Prof. G. Sethuraman, Prof and Head, Department of Mathematics, CEG Campus, Anna University, who is superannuating in May 2024.

7. Briefing of minutes of various Boards of Studies meetings by Chairpersons to the Council for the approval.
8. Any other matter with the permission of the Chair.

19.2 Briefing by Secretary/Special Invitee

Prof. M. Sivanandham welcomed all the members of the council to XVIII Academic council Meeting, in general and the AU Nominees in particular. He appreciated the support and guidance provided by the previous AU nominees for their support and suggestions. He also appreciated the various steps taken by the autonomous office for smooth conduction of academic related activities. He also insisted to present the academic audit report of the institution to the members for their comment and feedback.

19.3 Discussion on the Agenda

The agenda points mentioned in the section 19.1 were discussed in detail among the members. After contemplating about the pros and cons of each of the agenda points, the following resolutions mentioned in the section 19.4 were passed.

19.4 Resolutions

19.4.1 Resolved to approve the minutes of the 18 and 18A Academic council meetings, held on 21.04.2023 (held on 18.10.2023 and circular resolutions).

19.4.2 It is resolved to follow the existing rule for the allocation of the grades as per the fixed grading system. Members also instructed board chairpersons to monitor the assessment methodology adopted for the practical courses from the beginning of the semester.

19.4.3 It is resolved to approve the semester in an industry program in the next academic council meeting after vetting the documents going to be submitted by the

departments containing the number of subjects, syllabus, details of the resource person, duration of each course and methodology of the assessments.

19.4.4 It is resolved to approve the adoption of blended learning using any one of the "Learning Management Softwares (LMS)" for those subjects offered under Honours and Minor schemes. It is also approved that the methodology for the assessments of these courses is as per the instructions given in the UG Regulation 2022.

19.4.5 It is resolved to approve to include, Mr. G.T. Kodeeswaran, Senior Manager, Project Management, CBRE, Chennai in the Board of Studies of Faculty of Civil Engineering in place of Dr. S. Justin, Joint General Manager - Design, EDRC, L & T Construction, Chennai due to his unfortunate demise, in the BoS of Faculty of Civil Engineering.

19.4.6 It is resolved to include Dr. S. Anbarasu, Associate Professor, Department of Applied science and humanities, MIT Campus, Anna University in the place of Prof. G. Sethuraman, Prof and Head, Department of Mathematics, CEG Campus, Anna University, who is superannuating in the month of May 2024, in the BoS of Faculty of Science and Humanities.

19.4.7 It is resolved to approve the minutes of the following Boards of studies meeting submitted by the respective chairpersons. The minutes of the meetings are attached as ANNEXURE – I.

- 1. Faculty of Mechanical Engineering*
- 2. Faculty of Technology*
- 3. Faculty of Civil Engineering*
- 4. Faculty of Computer Science and Engineering and Information Technology*
- 5. Faculty of Electrical Engineering*
- 6. Faculty of Electronics and Communication Engineering.*
- 7. Faculty of Science and Humanities.*

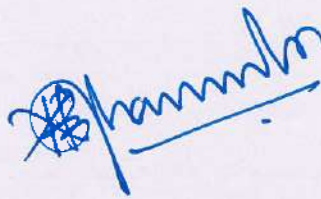
19.4.8 It is resolved to include Dr Nitin Muraleedharan, Asst Professor, Dept of Chemical Engineering, Indian Institute of Technology Madras, Chennai – 36 in the place of Mr D Senthil Kumar, Process Engineer, McDermott International Ltd., Chennai, who Left Chennai and settled in Dubai, in the BoS of Faculty of Technology.

As there were no further points for discussion, the Chairperson concluded the Academic Council meeting by thanking all the members for their active participation.



(Dr. S. Ganesh Vaidyanathan)

Chairperson/ Academic Council – SVCE



Sri Venkateswara College of Engineering

(Autonomous - Affiliated to Anna University)

Pennalur, Sriperumbudur Tk - 602 117

03.05.2024

Minutes of Meeting of Board of Studies for Faculty of Mechanical Engineering held on 29.04.2024

The meeting of Board of Studies for Faculty of Mechanical Engineering was held on 29.04.2024 at 10.00 am on HYBRID mode (Venue: Conference Hall, New Library, Link: <https://meet.google.com/dkq-dwem-abg>).

Members attended:

Sl. No.	Name with Designation and Address	Category
1	Dr. J. Venkatesan Professor & Head Department of Automobile Engineering Sri Venkateswara College of Engineering	Chairman
2	Dr. K. Ashok Associate Professor Department of Mechanical Engineering Puducherry Technological University, Puducherry - 605 014	University Nominee
3	Dr. S. Vengadesan Prof. & Head / Applied Mechanics IITM, Chennai	Expert Member 1
4	Dr. K. Arunachalam Professor, Department of Automobile Engineering Madras Institute of Technology, Chennai - 600 044	Expert Member 2
5	Dr. S. Selvaraju Dean, Marine Studies Bharath University, Chennai	Expert Member 3
6	Dr. K. Senthilkumaran Associate Professor, IIITDM, Melakottaiyur, Kancheepuram (Dist), Chennai - 600 127	Expert Member 4
7	Mr. I. Meenakshi Sundaram CTO, Amalgamations Component Group, Chennai	Industrial Expert 1
8	Mr. L. Pasupathi Divisional manager - Digital Organization Tractors and Farm Equipment Limited Huzur Gardens, Sembiam, Chennai - 600 011	Industrial Expert 2
9	Mr. CPK Kashyap Executive Director, The Sanmar Group No-9, Cathedral Road, Chennai - 600 086	Industrial Expert 3
10	Mr. V. Ganapathi Rao Principal, Hindustan Institute of Maritime Training (HIMT) 3A, W-29, (New door No.7), W-Block, Grete Gardens I st Street, Anna Nagar, Chennai - 600 040	Industrial Expert 4
11	Dr. Rino Nelson Assistant Professor, IIITDM, Melakottaiyur, Kancheepuram (Dist), Chennai - 600 127	PG meritorious Alumnus 1
12	Mr. Kalisaran Ramalingam Branch Manager, M/S Aurus Ship Management Pvt. Ltd. S2B, Amar Sindur Complex No 43, Pantheon Road, Egmore, Chennai - 600 008	PG meritorious Alumnus 2
13	All the faculty members of Department of Automobile, Marine and Mechanical Engineering	Members

Agenda of the Meeting

1. Approval of the minutes of previous meeting held on 20.09.2023
2. Revisiting the curriculum of UG programs under Regulations 2022 and discussion on the syllabus of 3rd and 4th year courses
3. Approval of Curriculum and Syllabus of new program B.E. Mechanical Engineering (Automobile)
4. Discussion on implementation of Semester-in-Industry programme
5. Discussion on implementation of Honours & Minor degree
6. Discussion on Curriculum of B.E. Mechanical Engineering for working professionals
7. Discussion on change in evaluation method of identified courses

At the start of the meeting, Dr. J. Venkatesan, Chairman welcomed the members of Board of Studies. He introduced the new member Dr. K. Arunachalam, Professor/Automobile from MIT Chrompet replacing Dr. M. Senthil Kumar and Dr. K. Senthilkumaran, Associate Professor, IITDM.

Chairman briefed about the following UG and PG programs under the board in view of introducing the details to the new members:

- B.E. Mechanical Engineering
- B.E. Marine Engineering
- B.E. Automobile Engineering
- B.E. Mechanical and Automation Engineering
- B.E. Mechanical Engineering (Automobile) (from the academic year 2024-25)
- M.E. Industrial Automation and Robotics

1. Approval of the minutes of previous meeting held on 20.09.2023

- Chairman briefed the discussion of various agenda point of previous meeting held on 20.09.2023 and explained the approval of circular resolution dated: 23.01.2021 related to name change of B.E. Automobile Engineering to B.E. Mechanical Engineering (Automobile) and the circular resolution dated: 12.01.2024 for the start of a new program B.E. Mechanical Engineering (Automobile) in the Department of Automobile Engineering.
- All the members approved the minutes of previous meeting of Board of Studies.

2. Revisiting the curriculum of UG programs under Regulations 2022 and discussion on the syllabus of 3rd and 4th year courses

- Chairman said that the approval for the curriculum and Syllabus of Semester I to IV of all UG programs got obtained in the previous meetings of BoS and requested the Heads of Automobile, Marine and Mechanical Engineering to present salient points of syllabus of Semester V to VIII.
- Prof. S. Shanmugam, HoD/MAR presented the curriculum and syllabus of all the semesters of B.E. Marine Engineering. He also proposed the following changes in B.E. Marine Engineering Curriculum under R2022:
 - Shifting Marine Workshop Practices and Afloat Training from the eighth to the sixth semester, with corresponding adjustments of subjects from the sixth to the seventh semester and from the seventh to the eighth semester.
 - Exchanging the following laboratory subjects:
 - Fire Fighting, Controls, and Simulator Laboratory: Moving from seventh semester to fifth semester.
 - Marine Propulsion and Auxiliary Machineries Overhauling Laboratory: Shifting from the fifth semester to seventh semester.
 - Updating the curriculum to include Marine Electronics as a new subject in the seventh semester, based on the recommendations of the Board of Studies for Electrical and Electronics Engineering.
 - Increasing the total number of credits from 183 to 188.

Prof S. Shanmugam, HoD/MAR, addressed the query regarding the necessity of 188 credits and explained about obtaining special permission from the University for the higher credit count.

After careful review of curriculum and syllabus, the following changes were suggested:

- Ensuring that the reference books are the latest and including a statement for each unit stating, "any amendments thereof."
- Adding the topic of energy-saving devices under the Energy Efficient Ship Operation subject.
- Renaming Unit V of the open elective subject "Marine Vehicles" to "Governing Regulations for Shipping Industry."
- Properly mentioning IMO regulations in the syllabus with the appropriate purpose.

The members accepted to incorporate the above changes in the Syllabus from fifth to eighth semester, Verticals, Open Electives, and Value-Added Courses.

- Dr. S. Vengadesan suggested having collaboration with Indian Maritime University, Visakhapatnam Campus to facilitate SVCE Marine students to have its skill sets. He also suggested having MoU with the National Technology Centre for Ports, Waterways & Coasts (NTCPWC) for the benefit of students. Mr. I. Meenakshi Sundaram endorsed the suggestions of Dr. S. Vengadesan. HoD/MAR assured to look into his suggestions and try to have collaboration with IMU and NTCPWC.
- Mr. I. Meenakshi Sundaram suggested having visit of Marine students to the shipping industries in Sri Lanka, which is becoming one of the Shipping hubs of the world. HoD/MAR assured to explore the possibilities.
- Dr. K. Arunachalam suggested having uniform distribution of the credits across the semesters. He felt that there are more credits in higher semesters compared to lower semesters. HoD/MAR explained the reasons and justified the distribution of credits.
- In addition, the Board suggested exploring opportunities for internships, training, ship visits, and curriculum development with L&T Kattupalli port, IIT Madras, and Indian Maritime University Chennai.
- Dr. J. Venkatesan, HoD/AUT presented the curriculum and syllabus of all the semesters of B.E. Automobile Engineering.
The members of BoS accepted and approved the curriculum and syllabus of B.E. Automobile Engineering.
- Dr. S. Ramesh Babu, HoD/MEC presented the curriculum and syllabus of all the semesters of B.E. Mechanical Engineering and B.E. Mechanical and Automation Engineering.

He proposed the following ratifications for discussion and approval of BoS:

- The course MN22501 Industrial Robotics has been updated and renamed as Industrial Robotics: Theories for Implementation.
- For B.E. Mechanical Engineering program, the course Industrial Robotics has been updated and renamed as Industrial Robotics: Theory and Practices.
- The lab course ME22711 Digital Manufacturing and Robotics Laboratory is combined with a theory subject and offered as theory cum

practical course as ME22710 Digital Manufacturing: Theory and Practices.

- The course ME22032 Energy Saving Machinery and Components has been renamed as ME22032 Sustainable Manufacturing with a few modifications in the content.
- The course MN22403 Operations Research and Management, originally proposed as a 4-credit course for the fourth semester, has been revised to a 3 credit course. Additionally, a tutorial hour has been introduced.
- The course MN22508 PLC and SCADA for Automation: Theory and Practices has been renamed as MN22509 Controllers for Automation: Theory and Practices.
- The course "Computer Aided Engineering: Theory and Practices" has been shifted from the seventh semester to the fifth semester of B.E. Mechanical and Automation Engineering.
- The course MN22609 Computational Techniques for Automation: Theory and Practices, offered in the sixth semester, has been renamed as "Programming and Modeling in Industrial Automation: Theory and Practices". The LTPC is set at 1 0 4 3.
- The second professional elective of B.E. Mechanical and Automation Engineering has been shifted from fifth semester to sixth semester and the fourth professional elective from sixth semester has been shifted to seventh semester.
- The theory course MN22708 Data Analytics and Data Science has been renamed as theory cum practical course "Data Science for Industrial Automation: Theory and Practices" in seventh semester.
- Dr. K. Arunachalam said that the credits allotted to thermal stream is less and suggested to increase atleast one thermal subject for B.E. Mechanical and Automation Engineering. Therefore, the course ME22403 Thermal Engineering is included in fifth semester. With a few internal modifications, the total credit of B.E. Mechanical and Automation Engineering is updated to 168.
- The course "ME22503 Heat and Mass Transfer" is renamed as "MN22077 Introduction to Heat Transfer" in the vertical "Diversified Group I".
- Dr. S. Vengadesan also suggested including an additional thermal subject in view of making the students face competitive exams like GATE, etc. and

getting admission for pursue higher studies. HoD/MEC accepted to add one thermal subject in the curriculum of B.E. Mechanical and Automation Engineering.

- Mr. I. Meenakshi Sundaram suggested using KISSsoft, Minitab and Reliasoft software for the Value added course "Advanced Gear Manufacturing Concepts" which will make the students exposed to use of these tools. He also said that it is possible to get KISSsoft software at free of cost by signing MoU with the company.
- Mr. I. Meenakshi Sundaram, Dr. S. Venkatesan and Dr. K. Senthilkumaran suggested to change the name of the course "3D Printing and Design: Theory and Practices" as "Additive Manufacturing: Theory and Practices". Dr. Ramesh Babu, HoD/MEC briefed the reason for the title "3D Printing and Design: Theory and Practices".
- Mr. L. Pasupathi suggested to rename the title of the vertical 5, "Clean and Green Energy" as "Clean and Green Energy for Environmental, Social and Governance" and the same has been modified in the curriculum.

The members of the BoS approved all the changes after careful review.

3. Approval of Curriculum and Syllabus of new program B.E. Mechanical Engineering (Automobile)

- Dr. J. Venkatesan, HoD/AUT informed that a new UG program B.E. Mechanical Engineering (Automobile) is to be started from the forthcoming academic year 2024-25 in the Department of Automobile Engineering.
- The final draft curriculum and syllabus of new program after the minor modifications as per the suggestions of the expert committee of Anna University and approval by the Director - Academic Courses were presented by HoD/AUT.
- Chairman responded to a query from Dr. S. Vengadesan that the fresh admission for the existing program will be withdrawn from the academic year 2024-25.
- HoD/AUT expressed that any improvement or modifications if required in the content of the curriculum or syllabus will be amended in future meetings of BoS accordingly.

All the members accepted and approved the curriculum and syllabus of the new program B.E. Mechanical Engineering (Automobile).

4. Discussion on implementation of Semester-in-Industry programme

- Chairman explained the following points related to Semester-in-Industry programme:
 - This approach combines academic study with practical work experience in industry, providing students with valuable hands-on learning opportunities and exposure to real-world challenges and practices.
 - Industry will engage a group of identified students of automobile engineering, mechanical engineering, mechanical and automation engineering, electrical and electronics engineering, and electronics and communication engineering to undergo a semester study at its plant(s) (at different locations) with the support of its experts and facilities.
 - Industry will prepare syllabus for a set of courses/schemes related to the branch of studies with the support and consultation of faculty of SVCE.
 - The identified students of SVCE will be undergoing the identified courses at industry in the permitted semester.
 - The identified students of SVCE will report to industry as per the direction of its authorities during fifth or sixth semesters and the evaluation of these courses will be done by industry experts.
 - The credits earned and grades provided by industry will be transferred directly to the students' credit.
- Dr. K. Pitchandi, Prof./MEC and CoE/SVCE said that the identified students will be permitted to do courses in industry replacing the professional electives or core subjects in the semester if it is relevant to accommodating/supporting industry.
- Chairman said that only the identified students will be permitted under this scheme and the students will be reporting to the industry like the employees of the industry. He also said that process of signing MoU with three industries is near completion.

All the members welcomed this initiative and expressed that this scheme will make students industry ready.

5. Discussion on implementation of Honours & Minor degree

Chairman expressed the following and requested the members to give their opinion:

- Blended or Hybrid learning concept will be followed to teach the courses of Honours & Minor degree.

- Students will be engaged with course materials, pre-recorded lectures, videos, etc. at their own pace and participate in scheduled class sessions for interactive instruction.
- Allowing students to access materials and participate in learning activities anytime, anywhere, and on any device with internet connectivity.
- Students will earn internal marks as per the regulations through formative assessment tests.
- Students will appear in the end semester examinations as per the regulations.
- Students can also earn 6 credits out of 20 through SWAYAM courses.

For a query from Dr. S. Selvaraju, Chairman said that there will be a faculty mentor for each course to monitor the students' learning and to conduct the formative assessment tests. There will be 10 to 15 contact hours for each course.

Members of BoS approved the teaching-learning process for the courses of Honours and Minor degree.

6. Discussion on Curriculum of B.E. Mechanical Engineering for working professionals

Dr. S. Ramesh Babu explained the Engineering Program for working professional and presented AICTE guidelines related to the above scheme.

Permitted Courses	AICTE approved courses with NBA Accreditation
Number of Course	Maximum three per Institute
Permitted Intake per course	30
Minimum Admission Required to Run the Course	1/3 rd of the approved intake in each course

Eligibility for Admission:

- Professionals working in Registered Industry/Organization (Central/state / /Private/ Public Limited Company/ MSMEs located within 50 km radial distance from the Institute.
- Minimum of ONE Year Full time / Regular working experience.
- Qualification Same as candidates eligible for Lateral Entry to Second Year (As Specified in Approval Process Handbook published by ATCTE from time to time).

- Same as Lateral Entry to Second Year with a total course duration NOT less than THREE years, to fulfill the total contact hours as prescribed by the Affiliating University for completion of duration of the course.
- The time for conducting classes normally shall be in the evening hours /any flexible convenient timings (including weekends / holidays) in alignment with timings of Industry / Organization.
- Mode of Conduct of Classes shall be as applicable for Regular Programs as defined in the AICTE Public Notice Vide. No. AICTE/AB/Academic/2020-21, dated 13th August 2020.
- Total Credits as specified in the AICTE Model Curriculum.
- As per the ATCTE Regulation up to 40% of credit transfer is permitted through MOOCs / SWAYAM.

HoD/MEC presented curriculum for B.E. Mechanical Engineering for working Professional with a total credit of 112.

- Dr. S. Vengadesan suggested exploring the Work Integrated Learning Programme (WILP) for working professionals run by BITS Pilani to know what kind of flavors it offers.
- Mr. I. Meenakshi Sundaram suggested to have a balanced curriculum not specific to the particular industry and assured HoD/MEC to extend support in all possible ways in this regard.
- Dr. K. Arunachalam proposed moving the Mathematics course from third semester to second semester. This change would ensure the continuity in the study of mathematics subjects.
- Dr. K. Arunachalam also suggested to change the course name "Interview and Career Skill Laboratory" to a suitable title eliminating the word "Interview" since they are already working professionals. HoD/MEC accepted to make the necessary changes in the curriculum with the approval of the HSS board.

All the members of BoS accepted the curriculum for B.E. Mechanical Engineering for working Professional.

7. Discussion on change in evaluation method of identified courses

HoD/MEC proposed changes in evaluation method of following courses for the discussion and approval of the BoS:

The evaluation pattern for the following courses has been revised considering the nature of the course.

MN22403 Operations Research and Management

Formative Assessment	Summative Assessment
Part A = 2 x 17 = 34 marks (with choice)	Part A = 5 x 2 = 10 marks
Part B = 1 x 16 = 16 marks (with choice)	Part B = 5 x 15 = 75 marks (with choice)
	Part C = 1 x 15 = 15 marks (Compulsory)
Total: 50 marks	Total: 100 marks

MN22409 Design Thinking

Formative Assessment Test 1 : 5 x 2 = 10 marks (5 questions, each carry 2 marks)

4 x 10 = 40 (4 questions, each carry 10 marks)

The final exam for the course will be conducted as VIVA-VOCE. The evaluation pattern for the final VIVA-VOCE will be as per the tabulation given below:

S.No	Evaluation criteria	Maximum marks
1	Introduction and Understanding of Design Thinking Concepts	25
2	Methodologies and Tools	25
3	Ethical and Social Considerations	15
4	Future Trends and Applications	15
5	Communication and Presentation Skills	10
6	Closing Thoughts and Feedback	10
	Total Marks	100

BoS accepted the changes in the evaluation methods of the above subjects.

Resolutions:

1. It was resolved to approve the minutes of the previous meeting of BoS for Faculty of Mechanical Engineering held on 20.09.2023 and updated minutes of meeting after the circular resolution Dated: 12.01.2024.
2. It was resolved to approve the modifications and ratifications and the complete curriculum and syllabus of B.E. Automobile Engineering, B.E. Marine-Engineering, B.E. Mechanical Engineering and B.E. Mechanical and Automation Engineering.
3. It was resolved to approve the Curriculum and Syllabus of new program B.E. Mechanical Engineering (Automobile) as per the recommendations of Anna University.
4. It was resolved to recommend implementing the Semester-in-Industry programme for the approval of the Academic Council.

5. It was resolved to recommend the Blended or Hybrid learning concept for the courses of Honours & Minor degree for the approval of Academic Council.
6. It was resolved to recommend the Curriculum of B.E. Mechanical Engineering for working professionals for the approval of the Academic Council.
7. It was resolved to approve the changes in the evaluation method of the courses "ME22409 Design Thinking" of B.E. Mechanical Engineering and MN22403 Operations Research and Management of B.E. Mechanical and Automation Engineering.


(Dr. J. Venkatesan)
Chairman - BoS

Dr. J. Venkatesan, M.E., Ph.D.
Chairman - Faculty of Mechanical Engineering
Professor & Head - Automobile Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur (Taluk) - 602 117,
Tamil Nadu, India



**Board of Studies of Faculty of Technology
Minutes of the 18th Board of Studies Meeting**

Ref: SVCE/BoS-FoT /2023-24/18

Date:12.04.2024

Time:10.30 AM to 01.00 PM

The Board of Studies meeting for Technology Board was held on 12th April, 2024 through hybrid mode. The meeting started at 10.30 am. The following members were present in the meeting.

- 1) Prof. N. Meyyappan, Professor & HOD, Department of Chemical Engineering, SVCE, Chairman, BOS for BIO & CHE.
- 2) Dr. J. Tamilselvan, Associate Professor, Department of Biotechnology, Anna University, Chennai – 600 025, Anna University Nominee.
- 3) Prof. N. Balasubramanian, Professor, Department of Chemical Engineering, A C Tech., Anna University, Chennai – 600025, Subject Expert – CHE.
- 4) Prof. M. Sivanandham, Secretary, & Professor of Biotechnology, SVCE (Special Invitee).
- 5) Dr. E. Nakkeeran, Professor & HOD, Department of Biotechnology, SVCE. (Member)
- 6) Dr. Nitin Muralidharan, Assistant Professor, Department of Chemical Engineering, IITM, Chennai – 600025, Alumni, SVCE-CHE.
- 7) All the faculty members of the Department of Biotechnology and Department of Chemical Engineering, SVCE (Members).

Prof. N. Meyyappan, Chairman of BoS, Faculty of Technology, welcomed all the faculty members to this BoS and preceded the BoS meeting by introducing the members to this board.

Following points were discussed in the BoS meeting

Approval of the previous minutes

The previous minutes of the meeting was displayed by the chairman and got it approved by the members.

SECTION A : CHEMICAL ENGINEERING

Agenda: 1 Draft Vision and Mission

The revised draft Vision and Mission statements of the departments, which were modified, based on college level new vision and mission statements were presented to the board and the board members recommended the statements.

The curriculum structure, made accordingly to achieve the Vision and Mission of the department through the PO, PSO and PEO's for the Department of Chemical Engineering was informed to the BoS Members.

Agenda: 2 Result analysis

The Head of the Department of Chemical Engineering presented the Result Analysis of various semesters during the odd semester of the academic year 2023-24. The overall results were well appreciated by the members. However they raised a concern to know if any student had failed due to lack of internal marks.

HoD/CHE informed that there is a provision for Internal Improvement in the subsequent semesters if the Internal marks is less than 23 out of 50.

The members also suggested the following:

- a. If the students fail for a first time during higher semesters, the root cause analysis is to be done and the issue is to be rectified.
- b. The possibility of improving the student's internals after third assessment can be identified to avoid students fail due to lack of internals.

Agenda:3 Semester Abroad Program

Prof.E.Nakkeeran, highlighted the introduction of the Student Exchange Programme for one or two semesters by AICTE and the initiative that a Memorandum of Understanding for the Student Exchange Programme will be signed between SVCE and University of Connecticut, USA to effect the same as discussed in the previous meeting.

Agenda:4 Semester in Industry

Prof.N.Meyyappan, informed the members about the Semester in Industry Option that would be introduced to the students in their higher semesters. The members discussed about the possibility of completing the regular courses during that period and the possibility of framing the syllabus with industry personnel accordingly to suit as Professional electives was well appreciated by the members.

Prof.N.Meyyappan also informed about the appointment of visiting professors for delivery of partial / full courses in the chemical engineering curriculum and we have approached Shri.L.David, Head EHS, DANFOSS Industries Pvt.Limited, Chennai and few other industrial persons for the same.

Agenda:5 Question Paper Pattern

Prof.N.Meyyappan proposed the change in the Question paper pattern for Design Subjects, Process Equipment design I and II as follows:

Part –A 2 marks – 20%

Part – B 14 marks – 70%

Part – C 10 marks – 10%

The usual pattern of question papers were discussed at length and the proposed change was recommended by the members.

Agenda:6 R22 Curriculum and Syllabus

a) B. Tech (Chemical Engineering)

The Chairman informed the board that the curriculum was approved from I to VIII semester, and syllabus up to IV semester in the previous meeting and presented the syllabus for V to VIII semesters along with the verticals.

Dr.N.Balasubramanian expressed his interest in knowing the changes made in the Teaching Learning Process of Chemical Engineering Thermodynamics II syllabus which was framed as a TNP (Theory and Practical) Integrated course. The procedure for awarding marks for all 6 categories of TNP cases was explained to the members and that 50 – 50% evaluation will be taken up for CET II. The members responded in acknowledgement.

HOD/CHE presented the syllabus for B Tech (Chemical Engineering), prepared based on the feedbacks from the stakeholders, and necessary suggestions were taken from persons expertise in the respective domains.

The presented syllabus for V-VIII semesters and verticals were accepted and it got approved with the following comments, by the members.

- The committee members recommended the course “Communication Skills Laboratory” instead of “Interview and Career Skills Laboratory”.
- The quality Control and Management course could be renamed as Quality Control, Assurance and reliability based on the content of Syllabus.
- The need for MATLAB/ASPEN course as a value added course was discussed over PMS integrated course and a suggested to offer an alternative.

The plan of handling the vertical HSE in process industries with both academic and industrial experts was well received by the members. They also suggested preparation of reports on previous incidents as a case study would be helpful to students .

Overall, The draft curriculum was well received by the members, to be forwarded to the Academic council.

b) M. Tech (Chemical Engineering)

The chairman presented the curriculum and syllabus for the R-22 M.Tech Chemical Engineering programme and informed the members that it was already approved by the academic council earlier.

SECTION B : BIOTECHNOLOGY

Agenda 1: Result Analysis

Prof. E. Nakkeeran, HOD/BIO, presented the result analysis of the I, III, V, and VII semesters of B.Tech Biotechnology & I and III semesters of M.Tech Biotechnology for the Academic Year: 2023-24 OS to the BoS members. The overall results were well received by the members. However, they provided the following suggestions:

- a. If students fail for the first time during higher semesters, it should be noted, analyzed, and rectified.
- b. Check the possibility of improving students' internals in the same semester itself to avoid students failing due to lack of internals (if any).

Agenda 2: Draft Vision and Mission

Prof. E. Nakkeeran, HOD/BIO, presented the draft vision and mission statements of the Department of Biotechnology and PEOs and PSOs of B.Tech Biotechnology, which have been modified based on the college-level new vision and mission statements. The BoS members recommended the draft vision and mission statements and PEOs and PSOs of B.Tech Biotechnology program.

Agenda 3: Curriculum and Syllabus

a) R22 - B.Tech (Biotechnology)

Prof. E. Nakkeeran, HOD/BIO, informed the BoS members that the curriculum and syllabus (up to IV semesters) of the R22 B.Tech Biotechnology program have been recommended by the BoS and approved by the Academic Council earlier.

Prof. E. Nakkeeran, HOD/BIO, presented the draft curriculum and syllabus (semesters V-VIII along with all the verticals, value-added, open electives, etc.) of the R22-B.Tech Biotechnology program to the BoS members. All the BoS members recommended the same to the Academic Council for approval. The BoS members further recommended the course "Communication Skills Laboratory" instead of "Interview and Career Skills Laboratory".

In addition, Prof. E. Nakkeeran, HOD/BIO, sent the draft syllabus (semesters V-VIII along with verticals, value-added, open electives, etc) of the R22-B.Tech Biotechnology program to the BoS members through email, as requested by them.

Prof. E. Nakkeeran, HOD/BIO, informed about the execution of a MoU with the University of Connecticut to facilitate the Student Exchange Program (SEP) for the students of R22-B.Tech Biotechnology program to study a semester at University of Connecticut. All the BoS members appreciated the same.

b) R22 - M.Tech (Biotechnology)

Prof. E. Nakkeeran, HOD/BIO, informed the BoS members that the curriculum and syllabus (I - IV Semesters) of the R22-M.Tech Biotechnology program have been recommended by the BoS and approved by the Academic Council earlier.

Agenda 4: Involvement of industry experts in Teaching-Learning Process as Visiting Professors:

Prof. E. Nakkeeran, HOD/BIO, informed the BoS members about the appointment of Visiting Professors from the industry in the Department of Biotechnology for the partial delivery of the curriculum/delivery of a complete course for B.Tech Biotechnology courses. Visiting Professors include Dr. Pazhanimuthu Annamalai, Managing Director of AURA Biotechnologies Private Limited, Chennai; Dr. Naveen Kumar Venkatesan, Founder & Managing Director of ImmuGenix Biosciences Pvt Ltd, Chennai; and Dr. Balaji Somasundaram, Associate Director of Denteric Pty Ltd, Australia. All the BoS members appreciated this initiative.

All the BoS members appreciated and recommended the initiation of the Semester Abroad Programme and the Semester in Industry Programme.

The Chairman informed that the recommendations made by the BoS members will be forwarded to the Academic Council of SVCE for further approval.

Dr. E. Nakkeeran, HOD/ BIO delivered the vote of thanks to the BOS members for their presence and valuable suggestions.

The Chairman thanked all the members for their presence and this meeting was adjourned at 1.00PM.

Prof. N. Meyyappan,
Chairman - BoS
Faculty of Technology.

Members Present:

<p>Prof. J.Tamilselvan, Anna University Nominee, Associate Professor, Department of Biotechnology, Anna University, Chennai.</p>	<p>Prof. M. Sivanandham, Secretary, SVEHT, Professor of Biotechnology, SVCE.</p>
<p>Prof. N. Balasubramanian, Academic Expert, Professor, Department of Chemical Engineering, A C Tech., Anna University, Chennai – 600025.</p>	<p>Dr.Nithin Muralidharan, Alumni – SVCE CHE, Assistant Professor, Department of Chemical Engineering, IITM, Chennai – 600025.</p>
<p>Dr. E. Nakkeeran, Professor & HOD, Department of Biotechnology, SVCE</p>	

Faculty Members of the Department of Chemical Engineering and Biotechnology:

S.No	Name of the Faculty	Designation	Signature
1.	Ms.Vijayalakshmi.A.C	Asst.Professor, UG Curriculum coordinator – CHE	
2.	Dr. G. Sudha	Associate Professor, PG Curriculum coordinator – CHE	
3.	Dr.K.Vasanthraj	Asst.Professor, Curriculum coordinator – BIO	
4.	Dr.R.Palani	Associate Professor	
5.	Dr.R.Govindarasu	Asso.Professor, AHOD	
6.	Dr. R. Rajesh @ Nithyanandham	Associate Professor	
7.	Mr. S. Rajasekar	Asst.Professor	
8.	Dr. D. Sivakumar	Asst.Professor	
9.	Mr. N. Arun Prem Anand	Asst.Professor	
10.	Mr. S. Jai Ganesh	Asst.Professor	
11.	Dr. N.P.Kavitha	Asst.Professor	
12.	Dr.G.Manikandan	Asst.Professor	
13.	Dr.M.Srividhya	Asst.Professor	
14.	Dr.Philip Bernstein Saynik	Asst.Professor	
15.	Mr. M. AnandaBoopathy	Asst.Professor	
16.	Dr.V.Sumitha	Professor	
17.	Dr.S. Pandi Prabha	Professor, AHoD	
18.	Dr.P.K.Praveen Kumar	Professor	
19.	Dr.K.Divakar	Associate Professor	
20.	Mr.J.Hariharan	Asst.Professor	
21.	Mr.N.Sathish	Asst.Professor	
22.	Mr.S.Nagavignesh	Asst.Professor	
23.	Dr.G.Karthiga Devi	Asst.Professor	
24.	Dr.K.Ganesh Prasath	Asst.Professor	
25.	Mr.J.G.Aswin Jeno	Asst.Professor	
26.	Dr.J.Isaivani	Asst.Professor	
27.	Dr.M.Nareshkumar	Asst.Professor	
28.	Mr.A.Vimal Arasan	Asst.Professor	



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. Kalaivannan
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. Kalavannan
	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 Kalavannan 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.

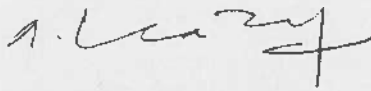
MISSION

- 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:

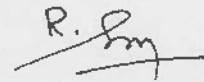
1. It is resolved to approve the syllabi of 5th to 8th semesters and Professional Elective courses under R2022 – B.E Civil Engineering.
2. It is resolved to approve the addition of a Professional elective course – ‘Design of Bridges’ under Structural Engineering Vertical.
3. It is resolved to approve 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.



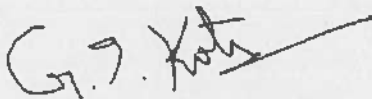
Dr. P. Ramadoss
Professor / Civil Engineering
Puducherry Technological
University
Pillaichavadi, Puducherry
University Nominee



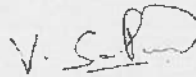
Dr. S. T. Ramesh
Professor & Head, Dept. of
Civil Engineering,
National Institute of
Technology
Tiruchirapalli – 620015
Member -Subject Expert



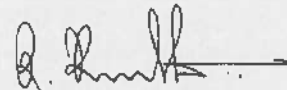
Dr. R. Saravanan
Professor/ Civil Engineering
College of Engineering
Guindy, Anna University
Member - Subject Expert



Mr. G T Koteeswaran
Senior Manager
Project Management
CBRE Chennai
Perungudi
Industrial Expert



Mr. V. Sai Prasad
Associate Proposals
Manager
Global Competence Centre
(G3C)
NKT Operations India Pvt.
Ltd, Guindy, Chennai
Member -Alumnus



Dr. R. Kumutha
Professor & Head/ Civil
Engineering, SVCE
Chairman -BOS



1

Sri Venkateswara College of Engineering
(An Autonomous Institution-Affiliated to Anna University, Chennai)

Minutes of the Board of Studies meeting

Faculty of Computer Science and Engineering & Information Technology

Date: 22/04/2024

Time: 9:30 AM

Reference Number: SVCE/CS & IT//BOS MIN/2023-24/18

Regulations: R22

The Eighteenth Board of Studies for the Faculty of Computer Science and Engineering and Faculty of Information Technology was held on 22.04.2024 at 9:30am in Hybrid mode. The lists of external members present for the meeting is given below:

S. No.	Name of the External Expert Members	Designation & Details
1.	Dr. V. Masilamani <i>Expert Member</i>	Associate Professor, Department of Computer Science Indian Institute of Information Technology Design & Manufacturing, Kancheepuram, Chennai - 600 127 Mobile : 9840260783 masila@iiitdm.ac.in
2.	Prof. H. Khanna Nehemiah <i>Expert Member</i>	Professor Ramanujan Computing Centre, Anna University Chennai, Tamil Nadu, - 600025 044-22358013 nehemiah@annauniv.edu
3.	Dr. S. Umamaheswari University Nominee	Associate Professor Department of Information Technology MIT Campus, Anna University, Chennai, Chennai- Tamil Nadu-600 044 9444493377 uma_sai@mitindia.edu dr.umasundar@cs.annauniv.edu
4.	Dr. A. Arivoli <i>Distinguished PG Alumnus</i>	Assistant Professor (Senior) Department of Computational Intelligence School of Computer Science and Engineering VIT University, Vellore - 632014 Mobile :9486704045 arivoli.a@vit.ac.in
5.	Mr. N. Hari Kumar Industry Expert	Senior Researcher Ericsson Research Lab Pvt Ltd. 8th Floor, Block C, SP Info City 40, MGR Salai, Kandanchavadi, Perungudi, Chennai 600096 Mobile:9790998573 n.hari.kumar@ericsson.com



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6	Mr. Srinivasan Thanukrishnan <i>Industry expert -</i> <i>Special Invitee- AI & DS</i>	Founder & CEO Glosys Technology Solutions Pvt. Ltd. No. 6/2, Ethiraj Street, Padmanabha Nagar, Cholaimedu, Chennai – 600 094 Mobile : 7305607686 / tsrini1969@gmail.com
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Dr. R Anitha, Chairman – BoS & HoD/CSE welcomed all the Board of Studies members and other faculty members for the meeting. Dr. Anitha welcomed the new member, Prof. H. Khanna Nehemiah, Professor Ramanujan Computing Centre, Anna University, Chennai-25. Dr. R Anitha, outlined the agenda of the 18th BoS meeting to the members of Board of Studies.

Agenda:

1. To get approval for the 17th BoS minutes.
2. To get approval for the Syllabus R22 from Semester 05-08 B.E.(CS), B. Tech.(AD), B.Tech. (IT).
3. Approval for the verticals syllabus of R22 for B.E.(CS), B. Tech.(AD), B.Tech. (IT).
4. Discussion and Approval for new Value Added Course for B.E. (CS) and B.Tech.(AD)
5. Discussion on engaging the Professor of Practice
6. Discussion on the modality of delivering the courses for Honors/ Specialization and Minor degree
7. Presenting the academic results obtained in previous semester – OS2023-24
8. Approval for Value Added Courses B.Tech. Information Technology

BoS Chairman requested the approval of the 17th BoS minutes and all the BoS members approved the previous Board of Studies minutes and the Chairman thanked all the members for the approval of the 17th BoS minutes. The meeting started with the agenda.

Discussion on Regulation 2022 Curriculum of B.E. [CS]

Semester 05:

BoS Chairman, presented the syllabus of fifth semester B.E. (CS) to all the BoS members. Prof. Khanna Nehemiah, suggested that in "Computer Networks" to include additional concepts on IPV4 and IPV6 in detail in Unit 02 or 03.

Prof. Khanna Nehemiah, suggested in Software Engineering to include phases and models of



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Software Development Life Cycle [SDLC] under Unit 01. Dr. Arivoli suggested to include types of Coupling and Cohesion in Unit 02 or Unit 03. Prof. Khanna Nehemiah, suggested to exclude Risk Management and Quality Management from the subject “Software Engineering” and to add the risk concepts in “Software Project Management”.

Mr. Harikumar, suggested to revisit and revise the syllabus of “User Interface Technologies, and also the BoS members suggested to replace Unit 04 and Unit 05 with Front End concepts of Web Scrapping and Web Development and Human Computer Interface concepts. All BoS members suggested removing No SQL, MONGO DB operations. Members also suggested that UI/UX design shall be incorporated in the syllabus. BoS Chairman, informed that, the “User Interface Technologies” is offered by Infosys and she also informed that the observations of the BoS Members will be shared with Infosys for further scrutiny. Prof. Khanna Nehemiah, suggested to revise the syllabus of “Theory of Computation” and informed that the syllabus shall be in line with the GATE syllabus. And also to update the syllabus with the topics “Automata in Circuit Design based application, Automata in Control systems, Automata in Processor Design and Automata in String matching”. He also recommended recent edition of text book by “Aho Ullman” for inclusion of Engineering applications in the syllabus. User Interface Technologies Laboratory: Mr. Harikumar, suggested to revise the laboratory in line with the proposed changes in theory and also to exclude Type Scripts and Servlets exercises.

Semester 06:

Dr. Masilamani suggested that in Software Project Management, in Unit 1 contents shall be reduced and also to remove Cost Estimation concepts, as the topic is covered in Software Engineering.

Dr. Khanna Nehemiah, suggested that in Unit 02, Risk management concepts shall be moved to “Software Quality Assurance and Testing”, so that Unit 1 shall be précised and also to split the Cost Benefit Analysis in two different units, and he also suggested to refer Bob Hughes for Unit 5. Dr. Khanna Nehemiah also suggested to remove Unit 5: “Staffing in Software Projects” and to add “Role of a Project Manager, Project Management Models, Motivation and Team working” related concepts in Unit 05.

BoS Members suggested ensuring no repetition of concepts in both core courses and vertical courses. Dr. Umamaheswari, suggested that in “Internet of Things and Applications”, Unit 02 shall be swapped with Unit 05, as application relevant concepts shall be discussed at end of every unit for the better understanding of the subject.



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Dr. Masilamani and Mr. Harikumar has enquired whether Open Stack, Open Source applications and Elasticity were included in the course “Cloud Computing”. Dr. Anitha informed that the Elasticity concepts are covered in detail in NIST reference architecture under Unit 01.

Semester 07:

Dr. Masilamani, suggested to include concepts related to publication ethics so that students will have better exposure towards research ethics and also gain knowledge about publication. He also informed that the course will also help the students after the employment.

Discussion on Regulation 2022 B.Tech.[AD] Curriculum:

Semester 05:

BoS Chairman, presented the curriculum of B.Tech.- AD to the new expert member Prof. Khanna Nehemiah and syllabus from fifth semester onward is also presented. Prof. Khanna Nehemiah suggested that the subject “Automata Theory and Compiler Optimization” shall be renamed as “Automata Theory”, and also suggested to ensure that the syllabus is in-line with GATE syllabus.

Semester 06 & 07:

In the subject Deep Learning Algorithms, the BoS members suggested to include practical sessions in each unit. They also suggested replacing “Multilayer Perceptron” with “Deep Neural Network” in unit 2. Dr. Umamaheswari, suggested to add Deep Neural Network problems, and Data Augmentation problems instead XOR Problems.

Mr. Harikumar and Mr. Srinivasan suggested to include Hyper Parameters tuning concepts in Unit 03, and to add bio inspiring algorithm, transfer learning based algorithms in unit 4 & 5 respectively.

For the subject Reinforcement Learning Prof. Khanna Nehemiah, suggested to split Unit 02 into Unit 01 & Unit 02, and also to remove existing deep learning topics in Unit 01.

Dr. Masilamani, suggested to introduce Dynamic programming and Temporal difference learning in Unit 3. Dr. Arivoli and Mr. Harikumar, suggested to add Deep Reinforcement Learning and its case studies in Unit 05.

In subject Health Care Analytics, Dr. Masilamani and Dr. Arivoli, suggested to rename “Introduction to Deep Learning” as “Revisit of Deep learning”, also to rename Unit 03 as “Biomedical Data Processing”. All the BoS members suggested to remove Genomic Data Analysis and to replace with Medical CT-Processing.



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Discussion on Value Added Courses:

BoS Chairman informed the members that a new Value Added Course, **Generative AI for Software Development** is introduced in regulations R22 curriculum. After seeing the syllabus all the BoS members have approved the course and also suggested that the course shall be handled by an industry expert with suitable case study. BoS chairman informed that the value added course **Generative AI for Software Development** will be handled by the industry expert Mr. T. Srinivasan, CEO, Glosys Technologies, who is appointed as Professor of Practice in the department.

Discussion on Verticals B.E.[CS] & B.Tech. [AD]

BoS Chairman, has informed the members about the awarding of **Honors, Specialization and Minor degree** options to the students admitted under regulation R22. She has presented the syllabus of courses listed under different verticals. Dr. Umamaheswari and Dr. Masilamani has suggested to offer bridge course/ audit course for the students who are interested in minor degree. BoS members suggested ensuring pre-requisite for opting **Advanced AI based subjects** and with machine learning concepts in earlier semesters before opting the verticals. In the course **Explainable AI**, Prof. Khanna Nehemiah, suggested to include few modern interpretability algorithms.

Vertical –Artificial Intelligence and Machine Learning:

The members informed that the Course titled “Soft Computing” shall be replaced with “Reinforcement Learning”. And the course “Neural Network & Deep Learning” shall be renamed as “Deep Neural Networks”.

Vertical - Cloud Computing and IoT:

Mr. Harikumar has suggested to change the name of the course “Containerization and DevOps” to “DevOps and Containerization”, Mr. Harikumar, suggested to include practice session for “DevOps Containerization” and “Cloud Services Management”. BoS members concluded to ensure repetition of concepts covering the syllabus with core subjects Dr. Umamaheswari suggested to remove Data storage technique and to replace it with any course related to IoT. Dr. Masilamani suggested adding the course “IoT Automation” replacing Data Storage technique. All BoS members approved the same.



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Vertical: Multimedia Systems

Members suggested to change the name of the course “Image Signal Processing” as “Digital Image Processing Techniques”. BoS members suggested to remove the concepts of Graphics and multimedia. BoS members suggested to include fundamental steps in Digital Image Processing and to ensure the book with Fundamental concepts coverage. Dr. Masilamani, suggested to include “video processing” concepts in Unit 04, also suggested to include 3D printing related course under this vertical.

Diversified Group:

In the course Graph theory members have suggested to include types of graph and directed graph in Unit 01. Members also suggested that the syllabus for the course Software Quality Assurance and Testing shall be same as given in Information Technology. In the course Advanced User Interface Technologies BoS members, suggested to include concepts on Angular JS, and to differentiate services, roll over standards and network slicing algorithms.

Vertical: Information Security and Cyber Security

In the course Identity Management and Access control Models members suggested including Forensics concepts, and more concepts on development of Open source services like Google IAM, Azure IAM and AWS IAM in Unit 05. Members enquired whether the focus is to have 5G standalone slicing or from 4G in the course 5G Security and Challenges. Members also informed to add cybercrime topics and intrusion detection, phishing attack and Trojan concepts in Cyber Security and in Malware Analysis respectively.

Vertical: Data Analytics

Members suggested to elaborate the course content in the course Exploratory Data Analysis. They also suggested to include Testing of Hypothesis and remove Data Cleaning topics in Unit 5. In the course Distributed Databases and Analysis members suggested to include streaming and also to include Neo DB in Unit 2. Members suggested to include the concepts of Video Analytics in Image and Video Analytics. Members also suggested to revisit the syllabus MLOps: Machine Learning Operations.



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Semester 6

Dr. Umamaheswari and Prof. Khanna Nehemiah recommended to include Introduction on Big data in Unit-1 in the course **Big Data Analytics**. They suggested to reduce the content in Unit-5. It was recommended to have Big Data in Unit-1 and Cloud Computing in units 2 to 5. The members suggested to elaborate on the topic "Docker" and include CRUD operations should be included in Big Data Lab syllabus. During the discussion, the possibility of offering Big Data and Cloud Computing as separate subjects was pitched. The HOD/INT noted the idea and recorded to look into the implementation and revert. Prof Srinivasan insisted to change the total no of hours for big data analytics lab.

Dr. Umamaheswari and Prof Khanna Nehemiah recommended to include Data Security topics in **Information Security** and implementation of firewall using tables. The members suggested to reduce the syllabus in unit-4 of the course **Internet of Things (IOT)** and remove exercise 7 in IOT Laboratory.

Semester 7

Prof. Khanna Nehemiah has recommended to include Over fitting, under fitting topics in the course **Machine Learning Techniques**. The members suggested to include cybercrime topics in the course **Cyber Forensics**. Also, they suggested to elaborate the syllabus. Mr. N Hari Kumar recommended to include Cellebrite tool in the course **Cyber Forensics laboratory**.

Vertical - Data Science

Prof. Khanna Nehemiah suggested to check the redundancy of topics in the courses **Deep Learning** and **Natural Language Processing**. He also recommended to include textbooks with latest edition for all the courses. Dr. Umamaheswari suggested to include the following topics need to be included graph modelling, 6 degree of freedom, Barabasi algorithm in the course **Social Network Analysis**.

Vertical - Diversified group

Mr. N. Hari Kumar suggested to include V-model verification and validation testing in the course **Software Testing tools and Techniques**. He also recommended to include Graph QL in the course **Service Oriented Architecture**.

Vertical: Networking & Cyber Security

Dr. Masilamani suggested to incorporate the following points while framing the syllabus.

- For Minor degree, simplified courses can be included.
- Same verticals cannot be given as honor and minor.
- Number of textbooks can be restricted to one or two.



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Vertical: Intelligent Systems

Members suggested that the course Web Mining should cover the concepts of web structure mining, web content mining and web usage mining. In course Evolutionary Mining the members suggested name the evolutionary algorithms in specific.

Vertical: Fintech and Healthcare

Members suggested to elaborate the syllabus in Finance Engineering. Members informed that enough care should be given to avoid the repetition in the course Data Science in Intelligent Healthcare and Computer Vision in Healthcare Applications.

Vertical: Full Stack and Development

Members suggested to add lean and descent topics in the course Agile Methodologies and also to reduce the content in Unit 5. Members also suggested to swap Unit 1 and Unit 5. Dr. Umamaheswari informed that the syllabus follows the flow of the text book and it can be maintained the same. syllabus in Finance Engineering. Members informed that the course Front end and Middleware Technologies and Software Testing and Quality Assurance shall be revisited.

Department of Information Technology

Dr. V. Vidhya, HOD/INT welcomed all the Board of Studies members and other members of the faculty to the meeting.

Semester 5

Dr. Umamaheswari and Prof Khanna Nehemiah suggested to reduce the content in unit 3 and change unit 5 in the course Computational Intelligence. They suggested to remove units 3 to 5 in Automata and Compiler Design course and recommended to provide NLP based Compiler Design as a Value-Added Course. The members suggested to include UI/UX design in the course User Interface Technologies.

Dr. Umamaheswari and Prof. Khanna Nehemiah suggested to prescribe the book authored by Kurose as the text book for the course Data Communication and Networking. The members recommended to include topics on adaptive and non-adaptive routing. Dr. Umamaheswari recommended to remove socket programming from Unit-1. Dr. Arivoli suggested to include Interconnecting devices like switch, routers, and gateways in Unit-1. She also recommended to include types of switching, super netting, RARP, error correction in Unit-2 and remove virtualization in unit-5.



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Vertical: Embedded System and IOT

Prof. Khanna Nehemiah recommended to include Embedded C for ARM processor and Real time OS in the course Embedded & Real time System. He also suggested to include simulation exercise in the course Unmanned Vehicle System.

Vertical: Multimedia Technologies

Prof. Khanna Nehemiah recommended to reduce contents in the course Graphics & Multimedia and Machine Vision. He also suggested to include some Industrial application in the courses.

Vertical: High Performance Computing


Prof. Khanna Nehemiah and Dr. Umamaheswari recommended to reframe the syllabus for Green Computing and Next Generation Network. The members also suggested not to offer same verticals for Honors and Minors.

Dr. R. Anitha has informed members that the department of CSE and INT have appointed the industry experts as visiting professors under Professor of Practice scheme. Members suggested that the experts shall handle the courses covering industry applications and also to share the trends in industry with students. Chairman also informed that the department of CSE and INT is revisiting the Vision and Mission to be in-line with the new Vision and Mission of the institute. She also informed that the stake holders meeting is scheduled to revisit the Vision and Mission, PEO and PSO. At the end, the results of the end semester examinations held in December 2023 was presented to the members.

Finally, HoD/ CSE & HoD/ INT thanked the members and informed the members that the suggestions will be incorporated suitably.

Resolutions:

1. Members approved the Syllabus from Semester 05-08 for B.E.(CS), B. Tech.(AD), B.Tech. (IT) for the regulations R22.
2. BoS members approved the syllabus for the verticals B.E.(CS), B. Tech.(AD), B.Tech. (IT).
3. It is approved to add the value added course Generative AI for Software Development for B.E. (CS) and B.Tech.(AD)
4. As there were no more points, the meeting came to an end.


 Chairman
 Board of Studies

Faculty of Computer Science and Engineering & Information Technology
 Sri Venkateswara College of Engineering
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Minutes of Meeting of Board of Studies for Faculty of Electrical and Electronics Engineering held on April 03rd, 2024

The second meeting of Board of Studies in the academic year 2023-24 for Electrical and Electronics (EE) was held on 03.04.2024 Wednesday in Software Laboratory with the following members.

Sl.No	Member	Designation
1	Dr.C.Pugazhendhi Sugumaran	Professor, Department of Electrical & Electronics Engineering,, CEG, Anna University, Chennai.
Representative from Industry		
2	Mr.P.S.Premkumar	Managing Director, Controlsoft Engineering India Pvt Limited,No.534 East coast Centre, 1st Floor, Anna Salai, Teynampet, Chennai 600018.
3	Dr.P.Somasundaram	Professor, Department of Electrical and Electronics Engineering, CEG, Anna University, Chennai.
4	Mr.S.Akash	CEO, MuPhile Labs, 83, Arunachalam St, Chintadripet, Chennai- 600 002.

Chairman-Board of Studies (EEE)		
5	Dr.KR.Santha	Professor and Head, Vice Principal, Department of Electrical and Electronics Engineering.
6	Dr.NK.Mohanty	Professor
7	Dr.Sudhakar.K.Bharatan	Professor and AHOD
8	Dr.R.Karthikeyan	Professor
9	Dr.S.G.Bharathidasan	Professor
10	Dr.C.Gopinath	Professor
11	Dr.S.Kumaravel	Associate Professor
12	Dr.S.S.Sethuraman	Associate Professor
13	Dr.T.Annamalai	Associate Professor
14	Dr.S.Arulmozhi	Associate Professor
15	Dr.N.Shanmugavadivu	Associate Professor
16	Dr.C.Venkatesan	Associate Professor
17	Dr.D.Amudhavalli	Associate Professor
18	Dr.M.Sankar	Associate Professor
19	Ms.M.Sasikala	Assistant Professor
20	Ms.K.Suganthi	Assistant Professor
21	Mr.S.Sudharsanam	Assistant Professor
22	Mr.M.Ranjithkumar	Assistant Professor
23	Mr.D.S.Purushothaman	Assistant Professor
24	Ms.S.Sinthamani	Assistant Professor
25	Mr.G.Vinothkumar	Assistant Professor
26	Dr.C.Kamal	Assistant Professor
27	Mr.S.Thamizmani	Assistant Professor
28	Dr.R.Kannadasan	Assistant Professor

29	Dr.E.Naveen Kumar	Assistant Professor
30	Ms.S.Akila	Assistant Professor
31	Mr.S.Bharadwaj	Assistant Professor
32	Dr.R.J.Venkatesh	Assistant Professor
33	Mr.V.Karthikeyan	Assistant Professor

Dr KR.Santha Chairman (Board of Studies) welcomed the BoS members for the meeting and mentioned the Agenda as follows.

1. Consideration and approval of R2022 (CBCS) B.E Electrical and Electronics Engineering curriculum, modified as per the recommendations of BoS committee meeting held on 19.09.2023.

Modifications:

- a. Analog Electronics Theory and Practices course separated into two courses such as “Analog Electronics”- Theory Course and “Analog Electronics Laboratory” – Laboratory Course.
 - b. “Measurement and Instrumentation” Theory and Practices course separated into two courses such as “Measurement and Instrumentation”- Theory Course and “Control Systems and Instrumentation Laboratory” – Laboratory Course.
 - c. Two professional elective courses are moved to 8th semester.
 - d. “Digital Protection of Power System” – Profession Elective introduced in Vertical II – Power System Engineering.
 - e. “Power System Protection Laboratory” - Profession Elective Laboratory course introduced in Vertical II – Power System Engineering.
 - f. Courses are combined and rearranged as suggested.
2. Approval of Syllabus for the all courses (Professional core, Professional Electives, Open Electives and Value added courses) from Semester V to Semester VIII of B.E Electrical and Electronics Engineering.
 3. Approval of the following courses of B.E Marine Engineering programme under R2022 (CBCS).

- Semester VI:
 - ✓ Electrical, Electronics and Micro-Controller Laboratory.
 - ✓ Marine Electronics
 - ✓ Electrical Technology for Marine Engineers (Professional Elective)
 - ✓ Marine Electrical Technology

The following points were suggested by the members of Board of Studies for the Department of Electrical and Electronics Engineering:

- HOD/EEE delivered a presentation on **B.E. (Electrical and Electronics Engineering) curriculum** under R2022 (CBCS).

• **First year courses:**

- Dr.C. Pugazhendhi Sugumaran, Professor, AU, suggested to include Basic Electrical Engineering also as a part in CM22151 Basic Civil and Mechanical Engineering or conduct a 'crash course' on Basic Electrical Engineering, in order to fulfill the pre-requisite of EE22111 Basic Electrical and Electronics Engineering Laboratory.
- Chairman replied that the department will conduct a crash course on Basic Electrical Engineering from next academic year onwards.
- Mr. P.S.Premkumar, Managing Director, Controlsoft Engineering India Pvt Limited, suggested to include low voltage Protection concepts, D curve, types of Breaker (MCB, RCB, RCCB) and Fuse material.
- Chairman recorded that the above concepts are already covered in EE22111 Basic Electrical and Electronics Engineering Laboratory course.

• **Project work:**

- Prof. Dr.P.Somasundaram, suggested to change the nomenclature for Project work I as Mini project, and suggested to encourage students for constructing the hardware circuits of already taught concepts such as Four

quadrant operation of Chopper, PCB design, Transformer winding design with the available resources in SVCE. This will make students to progress with confidence and develop skill-set particularly for the project in 8th semester.

- Dr KR Santha agreed to introduce Mini-Project instead of Project work I.
- Prof. Dr.C.Pugazhendhi Sugumaran, suggested to train the students on the software tool such as ETAP, PSCAD, and MATLAB.
- Prof. Dr S G Bharathidasan emphasized that students of EEE department are already learning these software in various laboratories/Project.

• **Power System Laboratory:**

- Prof. Dr.P.Somasundaram recommended to change the name of the laboratory course 'Power system simulation Laboratory' as 'Power System Laboratory' to cover non-simulation experiments also.
- The chairman and Power system Module coordinators agreed the point and accepted for the change.

• **Industry supported courses:**

- Mr. P.S.Premkumar, explained about the importance of Industry supported courses which provide adequate pre-requisite knowledge to get employed in industries by quoting Electric Vehicle industry as an example.
- BoS members asked to clarify the following regarding Industry supported course
 - The way of handling, whether students are going to industry or industry personnel are coming to SVCE.
 - If students are going to be taught in industries, whether all students will be permitted to attend.
- Dr.C.Pugazhendhi Sugumaran, insisted to allow all students to learn from industries and not to restrict based on CGPA.
- In this regard, Mr Akash suggested to introduce more Industry supported courses in Electronics domain which will cover more students and satisfy their employability requirements also.

- Mr. P.S.Premkumar said that this would provide the pathway for students who have interest in other domains.
- HoD/EEE informed that in addition to the industry partner “controlsoft engineering private limited” supporting at present for the course “Industrial Automation and Networking”, signing of MoU with other companies such as HL Mando Anand India Pvt. Ltd, Sundaram Fasteners Private Ltd. and Samsung India Electronics Private India Ltd. is under process.

• **Verticals:**

- Dr.C.Pugazhendhi Sugumaran, advised to remove repeated topics in the courses ‘Power System Management’ and ‘Electrical Safety’.

• **Student Performance:**

- Dr.C.Pugazhendhi Sugumaran asked about third semester Results for 2022-26 batch, Placement details and GATE qualifications for 2020-24 batch. It is informed by HoD, that 10 students from 2020-24 batch have qualified in GATE examination, till date placement is 62% and pass percentage is 71.9%.

• **Theory and Practices category:**

- Dr.C.Pugazhendhi Sugumaran pointed that the separate practical courses than theory & practices courses will help a lot for students applying for higher studies in abroad.
- Dr.C.Pugazhendhi Sugumaran insisted that any examination has to be conducted for 3 hours while discussing the pattern of Examination for Theory and Practices courses. He added that there should be 3 hours examination for Theory and 3 hours examination for Practical and then it can be converted in required ratios.
- HoD informed that the same will be informed to CoE office, SVCE.

• **Text books:**

- Dr.C.Pugazhendhi Sugumaran, asked to list the text books in Syllabus which covers 70% of the syllabus content.

• **Universal Human Values courses:**

- Dr.P.Somasundaram, asked to refer the AICTE guidelines about the importance of introducing Universal Human value courses.
- Prof. Dr KR Santha agreed to look into that.

• **General Discussions:**

- The chairman initiated a discussion on semester in abroad and semester in industry schemes which are to be introduced for students under R2022.
- The chairman explained the regulations to be followed for Honor /Minor degrees.
- She also added that department of EEE offers Minor degree for non-EEE students in two domains. (a) Electric Vehicle Technology (b) Semiconductor Technology.
- The chairman also informed that students under R2022 have to undergo 4 weeks internship (included for CGPA calculation) and earn 2 credits; also they should earn 4 credits through value added courses. (Not included for CGPA calculation).

Board of studies members expressed their satisfaction and hope to the chairman and faculty members that the better implementation of this curriculum assures the bright future for students of SVCE.

Chairman (EE Engineering Board)

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Minutes of Meeting of Board of Studies for Faculty of Electrical and Electronics Engineering held on May 04th, 2024

The third meeting of Board of Studies in the academic year 2023-24 was held on 04.05.2024 Saturday through Online mode (Google meet link: meet.google.com/agn-xgqe-qna ; Time: 02.15 PM-03.15PM) with the following members.

Sl.No	Member	Designation
1	Dr.C.Pugazhendhi Sugumaran	Professor, Department of Electrical & Electronics Engineering, CEG, Anna University, Chennai.
Representative from Industry		
2	Mr.P.S.Premkumar	Managing Director, Controlsoft Engineering India Pvt Limited,No.534 East coast Centre, 1st Floor, Anna Salai, Teynampet, Chennai 600018.
3	Dr.P.Somasundaram	Professor, Department of Electrical and Electronics Engineering, CEG, Anna University, Chennai.
4	Mr. S.Akash	CEO, MuPhile Labs, 83, Arunachalam St, Chintadripet, Chennai- 600 002.

Chairman-Board of Studies (EEE)		
5	Dr.KR.Santha	Professor and Head, Vice Principal, Department of Electrical and Electronics Engineering.
6	Dr.NK.Mohanty	Professor
7	Dr.Sudhakar.K.Bharatan	Professor and AHOD
8	Dr.R.Karthikeyan	Professor
9	Dr.S.G.Bharathidasan	Professor
10	Dr.C.Gopinath	Professor
11	Dr.S.Kumaravel	Associate Professor
12	Dr.S.S.Sethuraman	Associate Professor
13	Dr.T.Annamalai	Associate Professor
14	Dr.S.Arulmozhi	Associate Professor
15	Dr.N.Shanmugavadivu	Associate Professor
16	Dr.C.Venkatesan	Associate Professor
17	Dr.D.Amudhavalli	Associate Professor
18	Dr.M.Sankar	Associate Professor
19	Ms.M.Sasikala	Assistant Professor
20	Ms.K.Suganthi	Assistant Professor
21	Mr.S.Sudharsanam	Assistant Professor
22	Mr.M.Ranjithkumar	Assistant Professor
23	Mr.D.S.Purushothaman	Assistant Professor
24	Ms.S.Sinthamani	Assistant Professor
25	Mr.G.Vinothkumar	Assistant Professor
26	Dr.C.Kamal	Assistant Professor
27	Mr.S.Thamizmani	Assistant Professor
28	Dr.R.Kannadasan	Assistant Professor

29	Dr.E.Naveen Kumar	Assistant Professor
30	Ms.S.Akila	Assistant Professor
31	Mr.S.Bharadwaj	Assistant Professor
32	Dr.R.J.Venkatesh	Assistant Professor
33	Mr.V.Karthikeyan	Assistant Professor

Dr KR.Santha Chairman (Board of Studies) welcomed the BoS members for the meeting and mentioned the Agenda as follows.

1. Approval of curriculum & syllabus of B.E Electrical and Electronics Engineering (Working Professionals) for semester I to VI under R2022 (CBCS).

The following points were suggested by the members of Board of Studies:

- Dr KR Santha HoD/EEE briefed on the initiative taken by the department of Electrical & Electronics Engineering, SVCE for starting a new Undergraduate programme on Electrical and Electronics Engineering for Working Professionals.
- She has announced in the meeting that SVCE had got AICTE approval for the AY 2024-25, and as per guidelines provided by AICTE, the period of study of this programme would be three years (Six semesters) minimum. EEE curriculum will be offered for six semesters.
- She also added that the contact hours per week will be 24-28 hours which would be covered within 3/4 working days for the working professionals
- Then, HOD/EEE delivered a presentation on **curriculum and syllabus of B.E. Electrical and Electronics Engineering for Working Professionals** under R2022 (CBCS).

During the discussion, the members suggested to incorporate the following changes or modifications to perfectly make it suitable to Working Professionals.

• **First year courses:**

- Dr.C. Pugazhendhi Sugumaran, Professor asked about the left out courses of First year, in order to verify whether all basic courses were included in

the curriculum.

- The Chairman replied that the basic Physics, Chemistry, Mathematics courses were not included in the curriculum.

• **Change of title:**

- Prof. Dr.C. Pugazhendhi Sugumaran asked to change the course title of 'Interview and career skills laboratory' of IV semester as Employability Enhancement skills or Professional development or to choose other suitable nomenclature in order to feed the professionals with necessary skills.

• **Merging Verticals:**

- Dr.C. Pugazhendhi Sugumaran, Professor, AU and Dr.P.Somasundaram, Professor, AU asked to,
 - Merge Electric Vehicle Technology (Vertical IV) and Electrical Drives and Control (Vertical III) and can give title as Electric Vehicle Technology and Drives Control or with other suitable nomenclature.
 - Merge Power system Engineering (Vertical II) and Renewable Energy and Engineering (Vertical V) and can give suitable nomenclature as Power system and Renewable Energy Engineering.

• **Introducing new Vertical:**

- Prof. Dr.C. Pugazhendhi Sugumaran and Prof. Dr.P.Somasundaram asked to add new verticals which may cover courses such as Optimization techniques, Resource Management, Inventory Management system, Logistics, Total Quality Management and Advancement in Packaging.
- They also suggested for referring Anna University, Industrial Engineering Curriculum and Syllabus.

• **Introduce new topics in Various Courses:**

- Dr.C. Pugazhendhi Sugumaran, Professor, AU asked to add the following contents in various subjects.
 - ✓ Experiments on Automated drive in the course of Machines Laboratory.
 - ✓ Calibration as separate unit with sub topics consists of Classification and Essential Parameters for Calibration in the course of Measurement and Instrumentation.
 - ✓ Auditing content in possible courses or as a separate course.
- MrS.Akash, CEO, MuPhile Labs, Chennai suggested to include Electrical safety/Industrial safety.

• **Examination pattern:**

- In continuation to the suggestion of Prof. Dr.C. Pugazhendhi Sugumaran regarding Examination pattern of Theory and Practices type of courses in the BoS Meeting held on 03.04.2024, he had asked for the status of revision of examination pattern. The chairman replied that the steps are in process, and the changes will be communicated soon.

Board of studies members expressed their satisfaction on the overall quality of the curriculum and syllabus and wished for successful implementation.

Chairman (EE Engineering Board)

SRI VENKATESWARA COLLEGE OF ENGINEERING,
 4th Semester in B.Tech. Electrical and Electronics Engineering - 2021-22
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
B.E., Electrical and Electronics Engineering
 (Working Professionals)
 CURRICULUM AND SYLLABUS
 REGULATIONS 2022
 CREDIT & BASED CREDIT SYSTEM

Curriculum Revision No.	Board of Studies Institutional Date	04.07.2022 Finalized	Academic Approved

7:36 PM | SVCE EEE, B.Tech Working Professionals |

People
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 Dr S GUNASEKHAR EEE
 Dr S KUMARAJEE EEE
 Dr S KUMARAJEE EEE
 Dr SETHURAMAN S EEE
 Dr VENKATESAN EEE
 Dr V. GOVINDHAR EEE
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 KAREEMATH EEE
 KALYAN MOHANT...

Sri Venkateswara College of Engineering
(Autonomous Institution, Affiliated to Anna University Chennai)

Pennalur, Sriperumbudur Tk - 602 117

Minutes of Meeting of Board of Studies for Faculty of Electronics and Communication Engineering

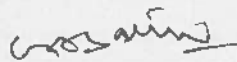
The second meeting of the Board of Studies in the academic year 2023-24 for Electronics and Communication Engineering, was held on 08.04.2024 through offline mode with the following members.

Sl. No.	Name	Designation
Expert nominated by the Vice-Chancellor		
1.	Dr.G.Sumithra	Professor, Department of Electronic Engineering, Anna University, Chennai - 44
Representative from Industry		
2.	Mr.K. Sendil Vel	CEO, Malar Electronics Anna Nagar West, Chennai - 600 040.
Experts in the Subject from outside the College		
3.	Dr.P.K.Jawahar	Professor, ECE, B.S.Abdur Rahman University , Chennai
Meritorious Alumnus		
4.	Dr.Arun Janarthanan	Technology Director and Engineering Practices Head, HCL Technologies Ltd., Chennai.
Chairman-Board of Studies		
5	Dr. G A Sathish Kumar	Professor and HoD
Faculty Members		
6.	Dr. P Jothilakshmi	Professor and AHoD
7.	Dr.N.Kumaratharan	Professor
8.	Dr.S.R.Malathi	Professor
9.	Dr.R.Gayathri	Professor
10.	Dr.T.J.Jeyaprabha	Associate Professor
11.	Dr.D.Menaka	Associate Professor
12.	Dr.M.Athappan	Associate Professor
13.	Dr.Bindhu.M	Associate Professor
14.	Ms.Kousalya R	Assistant Professor
15.	Dr.R.Priyadharshini	Assistant Professor

- Dr G A Sathish Kumar, Chairman, Board of Studies welcomed all the members of BoS for the meeting and briefed the following points pertaining to R2022.
 - a) B.E Honors
 - b) B.E Honors (Specialization in the same discipline)
 - c) B.E Minor (Specialization in other discipline)
 - d) Verticals, Open elective, and Value-added courses introduced in B.E (ECE).
- HoD explained about the present evaluation and assessment scheme for low pass percentage subjects. Also asked suggestions from BoS members to improvise the performance of the students.
- Dr.G.Sumithra, Expert nominated by the Vice-Chancellor suggested to prepare the list of courses in a distributed way and collect feedback from the students about the difficulty of the courses. Comparison between the activities of students in +2 and college. Identify the area of interest and counsel them. Conduct activity based learning like GD, Brain storming in technical content. This will help students to develop interest and excel in the placement.
- HoD explained about the steps taken for SIP, tie-ups action with industries M/s Mando, M/s Sundaram Fasteners.
- HoD briefed about industry supported courses, inviting industry experts to give insight knowledge about the subjects as par with industry standards.
- Few companies ST Micorelectronics, HCL Technologies have been approached for support to handle the courses.
- Mr.K.Sendil Vel, Representative from Industry, has extended his support for Embedded and IoT courses.
- Dr.Arun Janarathanan, Meritorious Alumnus, extended his support in framing and handling of VLSI courses. He shared a simulator wokwi.com where students and faculty can use this platform to learn about the different courses and gain depth of knowledge in programming skills.
- HoD has shared the experience in regard with visit to M/s Micro Chip, Bangalore and 5G Test Bed-IITM, Chennai.
- Dr.P.K.Jawahar, Experts in the Subject from outside the College and Mr.K.Sendil Vel , Representative from Industry, expressed that Chemistry and Physics subjects can be removed in next regulations as students have very good depth of knowledge as it covered in Higher Secondary Boards. Namely few subjects like Wireless Networks, Wireless

Sensor Networks, EMI/EMC, RADAR Engineering, Satellite Communication System, Optical Communication Networks, ASIC and FPGA Design are been moved as Professional Electives. The situation is, students are missing these Professional Core courses which might help them to improve their knowledge and skills to cater either for Higher studies or Job opportunities.

- Hence more Professional Core courses can be included from First semester onwards. Thus few courses can be added and updated in relevant to Industry requirement which will help students to acquire skills.
- As Verticals are been designed with 54 new subjects. This in turn will pave path for learning more number of Professional Elective courses as required by Industry. Thus percentage of weightage can be increased for Professional Core courses and Professional Elective courses.
- Antenna and Microwave which is offered as Theory and Practical courses are separated as theory (4 credits) and Lab courses (2 credits) individually. Hence total credits of ECE course is 169 credits.
- BoS Members suggested the renaming of the Vertical "IoT Systems and its Applications" since more subjects under this vertical are related to Embedded systems.
- BoS Members asked to change Open Elective subject name from "Fundamentals of Sensing Techniques for IoT" to "IoT and Sensing". Also suggested name change for the Professional Core "Computer Communication Networks" as "Communication Networks and Security". Similarly "Computer Communication Networks Laboratory" is replaced as "Communication Networks Laboratory".
- Discussion of verticals happened following few points were said as common to all subjects: Proper usage of verbs in RBT levels. Latest edition of Text book. Lab experiments to be limited to 10 to 12.
- Next meeting is proposed for September to discuss any change in Verticals.
- Thus, BoS members have accepted the new courses and syllabus under each vertical and recommended the same for the submission before Academic Council members.



Board Chairman Board of Studies (ECE)

Dr.G.A.SATHISH KUMAR

Professor & Head

Department of Electronics And Communication Engineering

Sri Venkateswara College of Engineering,

Pennalur, Irungatti Kottai-602 117.

Srinagar, Tamil Nadu INDIA

SRI VENKATESWARA COLLEGE OF ENGINEERING
(An Autonomous Institution, Affiliated to Anna University, Chennai-25)

Board of Studies: Science and Humanities

MINUTES OF THE MEETING

SVCE/AUT/SH/2023-2024/02

Date : 10.04.2024

Minutes of the meeting of Board of Studies for Science and Humanities held on 10th April 2024 (Wednesday) at 10.00 am.

Venue: *Conference Hall, Central Library, SVCE and Through Google Meet*

The Board of Studies of Science and Humanities of Sri Venkateswara College of Engineering, met on Friday 10th April 2024 at 10.00 am. The following members were present:

University Nominee

Dr. Kokilavani, Professor, Department of Mathematics, College of Engineering, Guindy, Chennai 25

Department of Humanities and Social Science (HSS)

Prof. S Soundirarajan, Professor, Department of English, Anna University, Chennai

Mr. Bharathkumar, Assistant Professor, Department of HSS, SVCE

Department of Applied Mathematics (APM)

Prof. G Sethuraman, Professor and Head, Department of Mathematics, Anna University, Chennai.

Dr B Thilaka, Professor and Asst. COE, Department of APM, SVCE.

Department of Applied Physics (APH)

Dr. K. Venkataraman, Professor and Head, Department of Physics, SCVMV University, Kanchipuram.

Prof. A Bhaskaran, Professor, Department of Applied Physics, (CHAIRMAN)

Dr. N R. Sheela, Associate Prof and Head, Department of Applied Physics, SVCE.

Department of Applied Chemistry (ACH)

Prof. N. Rajendran, Professor, Department of Chemistry and Director, Center for International Affairs, Anna University

Prof. S Stanley, Associate Professor and Head, Department of Applied Chemistry, SVCE.

Alumni Representative

Mr. Govind Balasubramaniam, Head, Defence Manufacturing, Ashok Leyland, Chennai

Industry Representative:

Mr. Amalan Alavandar, Urban Infrastructure & Renewable Energy Specialist & Director, Argine Solar Solutions Pvt. Ltd. Chennai

The Chairperson **Dr. A. Bhaskaran** welcomed all the members present in the Google Meet.

Chemistry

Prof. S Stanley, presented open elective syllabi OC22001 - Nano Chemistry and OC22002 - Fuel Cell Chemistry pertaining to Regulation 2023 and the board members discussed the syllabi in detail then approved the syllabi.

English

Dr. T. Murugavel, presented changes in the existing syllabus and **Mr. Amalan Alavandar** advised English HoD to incorporate few changes is approved by the board. This paper will be offered in the Third year.

Mathematics

The members of the Committee discussed the Syllabus for the subjects offered Regulation 2022 for PG. **Dr. B. Thilaka** detailed about the Syllabus for "Statistical Methods for Construction Engineers" for I Semester M.E. Construction Engineering and Management Program.

Special Elective courses

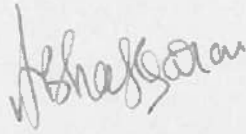
Prof. K. S. Badrinathan, Dean - Educational Development presented the following special elective courses to increase the contact hours from 45 hrs to 50 hrs. These will be offered to 5th, 6th and 7th Semester students.

S.No	Course Code	Course Name	Offered in Semester
1.	SE22001	Financial Statement Analysis	5/6
2.	SE22002	Introduction to Securities Market	
3.	SE22003	Option Trading Strategies	
4.	SE22004	Corporate Finance	
5.	SE22005	Managerial Economics	
6.	SE22006	Project Management	7
7.	SE22007	Mathematics for AI & ML	5

Physics

Dr. N. R. Sheela submitted the “**YOGA for mental health**” Syllabus under Regulation 2022 was approved by S and H BoS members. This syllabus is the open elective course as per AICTE guidelines. It will be offered to the 3rd year students

The members of the committee discussed the syllabus pertaining to Regulation 2022 and approved the syllabi for the various courses.



(Dr. A. BHASKARAN)
Chairman BoS for Science and Humanities

Chairman
Board of Studies
Faculty of Science & Humanities
Sri Venkateswara College of Engineering
Pennalur, Sridherambudur (Tn) - 602 117