ACADEMIC COUNCIL
ATTENDANCE SHEET FOR 49th MEETING OF
THE ACADEMIC COUNCIL ON 24.05.2025 AT 10.30 am
VENUE: SENATE HALL

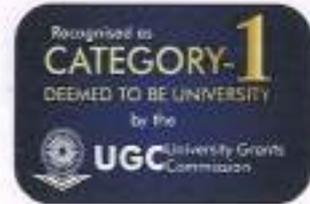| S.No	Name	Position	Signature
1	Prof. Dr. Rajat Gupta Vice Chancellor, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Chairperson	
2	Prof. Dr. R. Sivaraman Pro Vice-Chancellor Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
3	Prof. R.Venkata Rao Vice Chancellor, International University of Legal Education and Research (IIULER) Goa	External Member	
4	Mr. K. Balaji Vice President – People and Culture Delphi – TVS Technologies Chennai	External Member	
5	Dr. OR. Nandagopan Director, DRDO Industry Academia, Ramanujan Centre of Excellence, IIT, Madras	External Member	Attended (Through online)
6	Mr. Raghuraman Krishnamurthy Chief Enterprise Architect P&R Practise, Cognizant Chennai.	External Member	Attended (Through online)

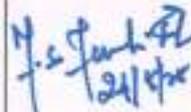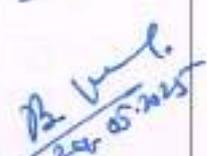| S.No	Name	Position	Signature
7	Dr. K. Sankaranarayanasamy Professor (HAG), National Institute of Technology (NIT), Tiruchirappalli.	External Member	
8.	Prof. Dr. Krishnan BASKAR. D.Sc. (KTH-Sweden), FRSC (London). Director, Indian Institute of Information Technology - Senapati, Manipur Imphal – 795002, India. Mobile: +919444125126, E-mail: director@iiitmanipur.ac.in, drbaskar2009@gmail.com	External Member	Attended (Through online)
9	Dr. S. Raju Professor & Dean (Academics) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
10	Dr. M. Rajeev Kumar, Professor & Dean (Quality Assurance) Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology.	Ex-officio	
11	Dr. R.S.Valarmathi Professor & Dean (SoEC) and HoD Dept of Electronics and Communication Engineering Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
12	Dr. P. Chandrakumar Professor & Dean (R&D and Industry Relations) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	

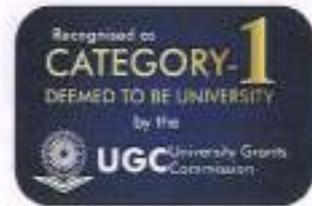| S.No	Name	Position	Signature
13	Dr. Muralidhar M S Professor & Dean (FME) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
14	Dr. P. Suresh Professor & Dean (International Relations & HRDC) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
15	Dr.P.Vijayaraman Assistant Professor & Dean (Campus to Corporate) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
16	Prof. Dr. B. Venugopal Professor & Dean (SoL) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
17	Dr. S. P. Chokkalingam Professor & Dean (SoC) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science andTechnology.	Ex-officio	
18	Dr. M.S.R. Mariyappan, Professor & Dean (SoM) Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology	Ex-officio	
19	Dr. A. Jayabal Professor & Dean - School of Commerce Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology	Ex-officio	

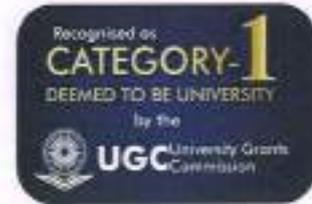| S.No	Name	Position	Signature
20	Dr. E. Suresh Paul Professor & Dean – School of Media Technology & Communication Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
21	Dr. K. Jagajjanani Rao Professor & Dean (Research Studies) Vel Tech Rangarajan Dr.Sagunthala R & D Institute of Science and Technology.	Ex-officio	
22	Dr. Monimoy Saha Assistant Professor & Dean (Hostels) Dept. of Mechanical Engineering Vel Tech Rangarajan Dr.Sagunthala R & D Institute of Science and Technology.	Ex-officio	
23	Dr. S. Ramesh Professor & Controller of Examinations, Dept. of Electrical & Electronics Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Permanent Invitee	
24	Mrs.D.Kasthuri, Dean-incharge (Alumni Relations and Development) Dept. of Electronics and Communication Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Ex-officio	Absent
25	Dr. R. Jaganraj Associate Professor & HoD Dept. of Aeronautical Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	

S.No	Name	Position	Signature
26	Dr. A. Geetha Selvarani, Professor & HoD Dept. of Civil Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
27	Dr. Karunanithi K Professor & HoD Dept. of Electrical & Electronics Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
28	Dr. J Visumathi Professor & HoD Dept. of Information Technology Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
29	Dr. S. Jayavelu Professor & HoD Dept. of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology,	Ex-officio	
30	Dr. K. Ravishankar Professor & HoD Dept. of Management Studies Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
31	Dr. J. Viswanath Professor & HoD Dept. of Mathematics, Vel Tech RangarajanDr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	

S.No	Name	Position	Signature
32	Dr. D. Senthil Kumar Associate Professor & HoD Dept. of Physics, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
33	Dr. CH. Hazarathaiah Yadav Professor & HoD Dept. of Chemistry, Vel Tech Rangarajan Dr. Sagunthala R &D Institute of Science and Technology.	Ex-officio	
34	Dr. P. Revathi Associate Professor & HoD Dept. of English, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology	Ex-officio	
35	Dr. D. Balasubramaniam Associate Professor & HoD Dept. of Biomedical Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
36	Dr. P. Azhagu Saravana Babu Professor & HoD Dept. of Biotechnology, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
37	Dr. B. Someswara Rao Professor & HoD School of Law, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Ex-officio	
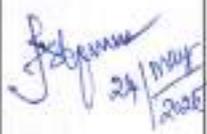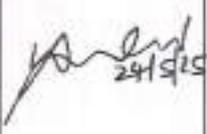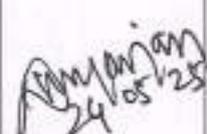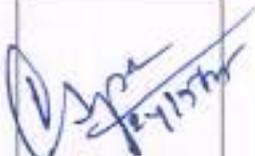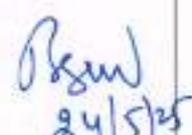
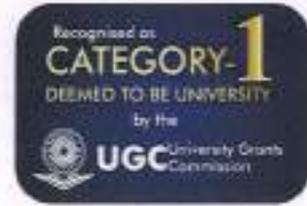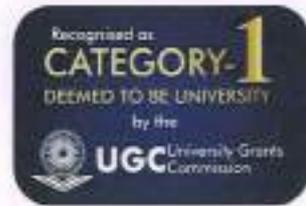| S.No	Name	Position	Signature
38	Dr. A. Arumugam Professor & HoD Dept. of Commerce, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Ex-officio	
39	Dr. S. Alex David Professor & HoD Dept. of Artificial Intelligence and Machine Learning Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Ex-officio	
40	Dr. V. Dhilipkumar Professor & Associate Dean (SoC) Dept. of Computer Science and Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Ex-officio	
41	Dr.N Vijayaraj Professor & HoD Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Technology	Ex-officio	
42	Dr. R. Parthasarathy Associate Professor & HoD Dept. of Computer Science and Design Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Ex-officio	
43	Dr. T. Rajendran, Associate Professor & HoD Department of CSE (Cyber Security) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Ex-officio	

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

S.No	Name	Position	Signature
44	Dr.M Gokuldhev, Associate Professor & HoD Department of CSE(Data Science) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Ex-officio	
45	Dr. P Santhi, Professor & HoD Department of CSE (Artificial Intelligence (AI) and Data Science) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Ex-officio	
46	Dr. S. Lalitha Associate Professor & HoD Department of CSE (ALML) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Ex-officio	
47	Dr. Amala Justus Selvam Professor Dept. of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology.	Internal Member Professor Nominee	
48	Dr. Kavitha T. Professor Department of Electronics and Communication Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	
49	Dr. Jana S. Professor Department of Electronics and Communication Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	

S.No	Name	Position	Signature
50	Dr.Dhal P.K. Professor Department of Electrical and Electronics Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	24/5/25
51	Dr. Prakash A. Professor Department of English Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	
52	Dr. Kanni Raj A. Professor Department of Chemistry Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	24/5
53	Dr. R. Srinivasan Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	R.
54	Dr. A. Bhagyalakshmi Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	24/5/25
55	Dr. S. Sridevi Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor Nominee	24/5/25

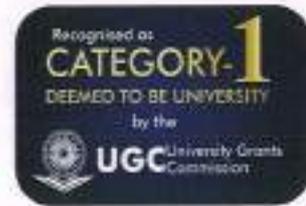| S.No	Name	Position	Signature
56	Dr. Boopathy. G Professor Department of Aeronautical Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Professor nominee	
57	Dr. T. Kamaleshwar Associate Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Associate Professor nominee	
58	Dr. J. Naresh Kumar Associate Professor Department of Mathematics Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Associate Professor nominee	
59	Dr.C.Vijai Associate Professor Department of Commerce and Business Administration, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Associate Professor nominee	
60	Dr. Ajitha E. Associate Professor School of Law Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Associate Professor nominee	
61	Dr.D Sundara Narayana Associate Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Associate Professor nominee	

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Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
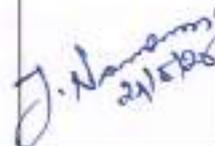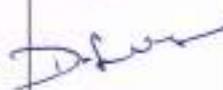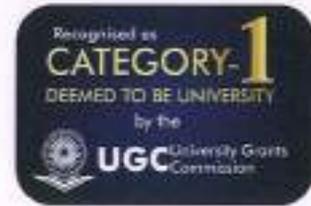(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

S.No	Name	Position	Signature
62	Dr. Sai Nandhini R. Assistant Professor Department of Biotechnology Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Assistant Professor nominee	
63	Dr. E. Madeshwari Assistant Professor Department of Biomedical Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Assistant Professor nominee	
64	Dr.T.Kujani Assistant Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Assistant Professor nominee	
65	Dr.K.Prema Assistant Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Assistant Professor nominee	
66	Dr.S.Saran Raj Assistant Professor Department of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Internal Member Assistant Professor nominee	
67	Dr.E.Kannan Professor & Registrar Dept. of Computer Science and Engineering Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Secretary	

VICE CHANCELLOR

Prof. Rajat Gupta
Vice Chancellor

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

49th MEETING
OF
THE ACADEMIC COUNCIL
Saturday, May 24, 2025

MINUTES

Prof. Rajat Gupta
Vice Chancellor

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List of Tables

Prof. Rajat Gupta
Vice Chancellor

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

MINUTES OF THE
49th MEETING OF THE ACADEMIC COUNCIL

Saturday, May 24, 2025, at
10.30 a.m.
Venue : SENATE HALL

The Vice Chancellor welcomed all the members and highlighted the achievements of the Institution.

A. Opening

49.1 **To record leave of absence of the members.**

The following member have expressed their inability to attend the meeting due to unavoidable reasons.

* **Dr. K. Jagajjanani Rao**
  Professor & Dean (Research Studies),
  Vel Tech Rangarajan Dr.Sagunthala R&D Institute of science and Technology

* **Mrs. D. Kasthuri**
  Dean in Charge (Alumni Relations and Development),
  Vel Tech Rangarajan Dr.Sagunthala R&D Institute of science and Technology

RESOLVED to accept and record the absence of the members due to some unavoidable reasons.

The list of members attended the 48th meeting of the Academic Council can be accessed *here*

**Appendix Attendance &
Absent list**

RESOLVED to record the leave of absence of the members due to unavoidable prior commitments and some obvious reasons.

49.2 **Call to Order and Approval of Agenda of the 49th meeting of the Academic Council.**

The Vice Chancellor called to order and placed the agenda of the 49th meeting of the Academic Council for confirmation which was circulated to members by e-mail.

Dr. Rajat Gupta
Vice Chancellor

49.3 Confirmation of the minutes of 48th meeting of the Academic Council held on Saturday, February 22, 2025.

The draft minutes of the 48th meeting of the Academic Council held on February 22, 2025 were placed before the council for approval.

The draft minutes of the 48th meeting of the Academic Council can be accessed *here*

Appendix A

RESOLVED, that the Minutes of the 48th meeting of the Academic Council held on February 22, 2025 be confirmed and recorded.

49.4 To review the Action Taken Report on the minutes of the 48th meeting of the Academic Council held on Saturday, February 22, 2025.

The Vice Chancellor, placed before the Academic Council to consider the Action Taken Report in respect of the 48th meeting of the Academic Council as described in Table 1.

Table 1: Action Taken Report in respect of 48th meeting of the Academic Council.

Item No.	Agenda Item	Suggestion	Action Taken Report
48.6	To discuss and approve the amendments made in Regulations "VTR UGAS 2021" for Under Graduate Arts and Science.	Registrar suggested that "There must be a limitations for re-register courses".	Suggestion is taken into consideration. It will be updated in the next meeting.
48.7	To discuss and approve the Regulations for Integrated Master's + Ph.D. programmes.	Dean - Industry Relations suggested that the Conversion Rate of "P.G. to Ph.D." need to be analyzed for the previous batches.	In Progress.
		Vice Chancellor suggested that the committee need to be formed to scrutinize the applications for determining equivalence of qualifications for admission.	Suggestion is taken into consideration. It will be updated in the next meeting.
48.8(1.A)	To discuss and approve the minutes of the Board of Studies of various departments.	Dr. Nandagopan Suggested for inclusion of advanced topics in corrosion engineering.	Suggestion is taken into consideration. The same will be placed in the next BoS for the approval.
48.8(2.C)	To discuss and approve the minutes of the Board of Studies of various departments.	Dean - Industry Relations suggested to offer the Electric vehicle specialization courses with lab facility.	The Course is offered under elective category. course name: Modeling and Simulation (10213EE136)

Rajat Gupta
Vice Chancellor

48.8(2.D)	To discuss and approve the minutes of the Board of Studies of various departments.	Dean - Industry Relations suggested to offer the specialization courses in general elective category.	Specialization electives may be offered in the program elective category also as and when required.
48.8(3)	To discuss and approve the minutes of the Board of Studies of various departments.	CoE suggested to follow the common CO pattern for all the courses as per Regulations.	Suggestion is taken into consideration. Common CO and PO be followed from the next academic year.
48.8(C)	To discuss and approve the minutes of the Board of Studies of various departments.	Members suggested to modify the name for the course "Digital Scam".	One topic from the course "E-Business Management" modified from "Digital Scam" to "Digital Arrest Scam"
48.4	To review the Action Taken Report on the minutes of the 47th meeting of the Academic Council held on Saturday, November 23, 2024.	(S.No.2) Prof. R.Venkata Rao, External Member has suggested to offer the Legal Education Programme as continuing education for trial court lawyer professionals.	Suggestion is taken into consideration.
		(S.No. 3) Experts Suggested that appoinment of "Professor of Practice for Law programme" shall be considered.	Suggestion is taken into consideration.
		(S.No.7) Dr. Nandagopan suggested to do short documentary film based on the Societal Importance as internship for School of Media.	School of media working on this. Will be placed in their respective school presentation

Dr.E. Suresh Paul, Dean – School of Media Technology & Communication has confirmed that "the short documentary film based on societal importance has been ready and it will presented in the next Academic council meeting.

The Council has taken note on the Action Taken report of the 48th meeting of the Academic Council held on February 22, 2025.

RESOLVED, that the Action Taken Report be approved.

B. Items for Discussion & Approval

49.5 To discuss and approve the minutes of the Board of Studies of various departments.

• **Engineering and Technology - Under Graduate & Post Graduate Programme**

    1. **School of Mechanical and Construction**

    A. **Department of Aeronautical Engineering**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 29th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Aeronautical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Appendix AERO

Dr. R. Jegan Raj, Associate Professor, Head - Department of Aeronautical Engineering & BoS - Chairman, presented the recommendations of the 29th meeting of the Board of Studies held on May 20, 2025.

Dr. R. Jegan Raj, Associate Professor & Head - Department of Aeronautical Engineering & BoS - Chairman, moved the recommendations of the 29th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Aeronautical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26, be approved.

Dr. K. Ravishankar, Professor, Head - Dept. of Management Studies, seconded it.

The motion was carried.

    B. **Department of Civil Engineering**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 29th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Civil Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Appendix Civil

Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering & BoS - Chairman, presented the recommendations of the Board of Studies meeting held on May 09, 2025.

The Summary and presentation of the BoS Minutes can be accessed here.

Rajat Gupta
Vice Chancellor

Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering & BoS - Chairman, moved the recommendations of the 29th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Civil Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

Dr. R. Jegan Raj, Associate Professor & Head - Department of Aeronautical Engineering, seconded it.

The motion was carried.

C. Department of Mechanical Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 41st Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Mechanical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Dr. S. Jayavelu, Professor & Head - Department of Mechanical Engineering & BoS - Chairman, presented the recommendations of the 41st meeting of the Board of Studies held on May 10, 2025.

The Minutes of the BoS meeting can be accessed here

Appendix MECH

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. S. Jayavelu, Professor & Head, Department of Mechanical Engineering, moved the recommendations of the 41st Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Mechanical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

Dr.K. Karunanidhi, Professor & Head, Department of Electrical and Electronics Engineering, seconded it.

The motion was carried

2. School of Electrical and Communication

A. Department of Bio Medical Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 14th Board of Studies of Department of Bio Medical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Prof. Rajat Gupta
Vice Chancellor

Dr. D. Balasubramaniam, Associate Professor & Head - Department of Bio Medical Engineering & BoS - Chairman, presented the recommendations of the 14th meeting of the Board of Studies conducted on May 08, 2025.

The Minutes of the BoS meeting can be accessed here

Appendix BIOMED

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. D. Balasubramaniam, Associate Professor & Head - Department of Bio Medical Engineering & BoS - Chairman, moved the recommendations of the 14th Board of Studies of Department of Bio Medical Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

Dr. S. Jayavelu, Professor & Head, Department of Mechanical Engineering, seconded it.

The motion was carried

B. Department of Biotechnology

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 14th Board of Studies of Department of Biotechnology to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

B *The Minutes of the BoS meeting can be accessed here*

Dr. P. Azhagu Saravana Babu, Professor & Head - Department of Biotechnology & BoS - Chairman, presented the recommendations of the 14th meeting of the Board of Studies held on May 12, 2025.

Appendix Biotech

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. P. Azhagu Saravana Babu , Professor & Head - Department of Biotechnology & BoS - Chairman, moved the recommendations of the 14th meeting of the Board of Studies of Department of Biotechnology to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

Dr. D. Balasubramaniam, Associate Professor & Head, Department of Bio Medical, seconded it.

The motion was carried

C. Department of Electrical and Electronics Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 34th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electrical and Electronics Engineering to be implemented

with effect from the Summer Semester of the Academic Year 2025-26.

Dr. K. Karunanithi, Professor & Head - Department of Electrical and Electronics Engineering & BoS - Chairman, presented the recommendations of the 34th meeting of the Board of Studies held on May 10, 2025.
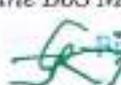
The Minutes of the BoS meeting can be accessed here

Appendix EEE

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. K. Karunanithi, Professor & Head - Department of Electrical and Electronics Engineering & BoS - Chairman, moved the recommendations of the 33st Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electrical and Electronics Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

Dr. Dhilip Kumar, Professor & Associate Dean, School of Computing, seconded it.

The motion was carried

D. Department of Electronics and Communication Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 43rd Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electronics and Communication Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Dr. R. S. Valarmathi, Professor & Dean & Head - Department of Electronics and Communication Engineering & BoS - Chairman, presented the recommendations of the 42nd Board of Studies meeting held on May 07, 2025.

Appendix ECE

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. R. S. Valarmathi, Professor & Dean & Head - Department of Electronics and Communication Engineering & BoS - Chairman, moved the recommendations of the 43rd Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electronics and Communication Engineering to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

• External members suggested to offer the course for "**Future of factories**".

The motion was seconded by **Dr. K. Ravishankar**, Professor & Head,Department of Management.

Prof. Gupta
Vice Chancellor

The motion was <u>carried.</u>

3. School of Computing

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Prof. Dr. S. P. Chokkalingam, Professor & Dean - School of Computing & BoS - Chairman, presented the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing.

The Minutes of the BoS meeting can be accessed here

Appendix SoC

The Summary and presentation of the BoS Minutes can be accessed here.

• **Prof. Dr. Krishnan Baskar** suggested to offer the Minor or specialization in "Quantum Computing/Quantum Technology" under the department of Computer Science and Engineering.

Prof. Dr. S. P. Chokkalingam, Professor & Dean - School of Computing & BoS - Chairman, moved the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

The motion was seconded by **Dr. S. Jayavelu**, Professor & Head,Department of Mechanical Engineering.

The motion was <u>carried.</u>

• **Law - Under Graduate(UG) Programmes**

a. B.A.,LL.B. and B.Com., LL.B.

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 13th Board of Studies for **B.A., LL.B.(Hons)** and **B.Com., LL.B.(Hons)** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Appendix LAW

Dr. B. Venugopal, Professor & Dean, School of Law, presented the recommendations of the 13th Board of Studies meeting conducted on April 24, 2025.

Dr. B. Venugopal, Professor & Dean, School of Law, moved that "the recommendations of the 13th Board of Studies for **B.A., LL.B. and B.Com., LL.B.** to be implemented with

effect from the Summer Semester of the Academic Year 2025-26", be approved.

- **Prof. R.Venkata Rao** suggested to offer the value added courses in "*1. Awareness of Cyber Law*", "*2. Legal responses to online gambling in sports*" and "*3. Sports Law in General*".

The motion was seconded by **Dr. A. Jayabal** , Professor & Dean - School of Commerce.

The motion was carried.

- **Arts and Science - Under Graduate (UG) Programmes**

a) **B.Sc. Multimedia. and B.Sc. Visual Communication**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 18th Board of Studies of Under Graduate (UG) Programmes under School of Media to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Dr. E. Suresh Paul, Professor & Dean - School of Media Technology & Communication, presented the recommendations of the 18th Board of Studies meeting conducted on May 12, 2025.

Appendix Multimedia

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. E. Suresh Paul, Professor & Dean , School of Media Technology & Communication, moved the recommendations of the 18th Board of Studies of Under Graduate (UG) Programmes under School of Media to be implemented with effect from the Summer Semester of the Academic Year 2025-26 for consideration and approval.

The motion was seconded by **Dr. B. Someshwara Rao**, Professor & Head,School of Law.

The motion was carried.

b) **Bachelor of Commerce (B.Com.)**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 6th Board of Studies of of Under Graduate (UG) Programmes under School of Commerce to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Prof. Rajat Gupta
Vice Chancellor

Minutes of the 49th meeting of the Academic Council, May 24, 2025.

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Dr. A. Arumugam, Professor & Head, Department of Commerce, presented the recommendations of the 6th Board of Studies meeting held on May 06, 2025.

Appendix BCom

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. A. Arumugam, Professor & Head, Department of Commerce, moved "the recommendations of the 6th Board of Studies of Under Graduate (UG) Programmes under School of Commerce to be implemented with effect from the Summer Semester of the Academic Year 2025-26" for consideration and approval.

The motion was seconded by **Dr. J. Visumathi**, Professor & Head, Department of Information Technology.

The motion was carried.

• **Arts and Science - Post Graduate Programmes**

a) **Department of English**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 7th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of English** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Dr. P. Revathi, Associate Professor & Head, Department of English, presented the recommendations of the 7th Board of Studies meeting conducted on May 08, 2025.

Appendix ENG

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. P. Revathi, Associate Professor & Head, Department of English, moved "the recommendations of the 7th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of English** to be implemented with effect from the Summer Semester of the Academic Year 2025-26" for consideration and approval.

• Experts are suggested to incorporate certain specific contents that focuses more on "Technical writing skills" Additionally, ensure that the students who are struggling perform fully in the assessments related to this course.

Dr. K. Sankaranarayanasamy suggested to offer the courses related to "Literature" under open elective course category.

Rajat Gupta
Vice Chancellor

The motion was seconded by **Dr. S. Alex David**, Professor & Head, Department of Artificial Intelligence and Machine Learning.

The motion was carried.

b) **M.Sc. - Mathematics**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 9th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Mathematics** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Dr. J. Viswanath, Professor & Head, Department of Mathematics, presented the recommendations of the 9th Board of Studies meeting conducted on May 05, 2025.

Appendix MATHS

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. J. Viswanath, Professor & Head, Department of Mathematics, moved "the recommendations of the 9th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Mathematics** to be implemented with effect from the Summer Semester of the Academic Year 2025-26"" for consideration and approval.

The motion was seconded by **Dr. N. Vijayaraj**, Professor & Head, Department of Computer Science and Engineering.

The motion was carried.

c) **M.Sc. - Physics**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 8th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Physics** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Dr. D. Senthil Kumar, Associate Professor & Head, Department of Physics, presented the recommendations of the 8th Board of Studies meeting conducted on May 10, 2025.

Appendix PHY

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. Rangat Gupta
Vice Chancellor

Dr. D. Senthil Kumar, Associate Professor & Head, Department of Physics, moved "the recommendations of the 8th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Physics** to be implemented with effect from the Summer Semester of the Academic Year 2025-26" for consideration and approval.

The motion was seconded by **Dr. R. Parthasarathy**, Professor & Head, Department of Computer Science and Design.

The motion was carried.

d) M.Sc. - Chemistry

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 9th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Chemistry** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

The Minutes of the BoS meeting can be accessed here

Appendix CHEM

Dr. CH. Hazarathaiah Yadav, Professor & Head, Department of Chemistry, presented the recommendations of the Board of Studies meeting conducted on May 10, 2025.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. CH. Hazarathaiah Yadav, Professor & Head, Department of Chemistry, moved "the recommendations of the 9th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under **Department of Chemistry** to be implemented with effect from the Summer Semester of the Academic Year 2025-26" for consideration and approval.

The motion was seconded by **Dr. S. Lalitha**, Professor & Head, Department of CSE (AI&ML).

The motion was carried.

- **Management - Post Graduate Programmes**

a) Master of Business Administration (M.B.A.)

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 30th Board of Studies for **Master of Business Administration (M.B.A.)** to be implemented with effect from the Summer Semester of the Academic Year 2025-26.

Rajat Gupta
Vice Chancellor

Dr. K. Ravishankar, Professor & Head, Department of Management, presented the recommendations of the 30th Board of Studies meeting.

Appendix MBA

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. K. Ravishankar, Professor & Head, Department of Management, moved "the recommendations of the 30th Board of Studies for **Master of Business Administration (M.B.A.)** to be implemented with effect from the Summer Semester of the Academic Year 2025-26" for consideration and approval.

The motion was seconded by **Dr. P. Santhi**, Professor & Head,Department of CSE (AI & DS).

The motion was carried.

49.6 To discuss the status of the establishment of AICTE Sponsored "IDEA Lab".

The Vice Chancellor, placed before the Academic Council to discuss the status of the establishment of AICTE Sponsored "IDEA Lab".

Dr. R. S. Valarmathi, Professor & Dean SoEC, presented the status of the establishment of AICTE Sponsored "IDEA Lab".

Summary Note :

AICTE-IDEA (Idea Development, Evaluation, and Application) Laboratory is being established in engineering colleges across India to help students develop their creative ideas and problem-solving skills.

This laboratory provides facilities and resources for students to turn their ideas into prototypes and will also help students to develop 21st century skills. The ultimate goal of the IDEA Laboratory is to transform engineering education and support students in becoming more creative and innovative.

AICTE – IDEA Laboratory has been sanctioned to Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology with a total cost of Rs 90 lakh, including non-recurring expenses (equipment, tools and consumables) of Rs 60 lakh and recurrent expenses (events and activities for two years) of Rs 30 lakh.

All the quotations were received from different vendors and the comparative statement was prepared to raise Purchase Orders. The major equipment are Vinyl Cutter, 3D printer, 3D Scanner, CNC router, PCB milling, Computer work station in Networking and AR/VR etc.

Prof. Rajat Gupta
Vice Chancellor

Integration of IDEA Lab with existing facilities:

Vel Tech Research Park, established at our university, houses 23 research centers and 5 CoEs to promote research, innovation, skill development, and entrepreneurship. The centers include:

i. IoT and Smart Factory initiatives supported by the ZF Commercial Vehicles Industry Laboratory.

ii. Centre of PCB Design & Fabrication, Bioenergy and Bio-products Centre supported by the Department of Science and Technology (DST)

iii. National Facility for E-Waste Recycling

iv. 3D Printing and 3D Scanning Facility

v. Centre for Antenna Research Lab is supported by ISRO.

All the academic laboratories of the institute are also leveraged for the IDEA Laboratory. The facilities available in the R&D of various departments have been aligned with the IDEA Laboratory below:

- Design and Analysis using software like MATLAB 2023, LABVIEW V18, ANSYS 2024, XILINX 2019, DIGSILENT FACTORY 2022, CADENCE, and CCS V12.

- CDIO Lab (Conceive, Design, Implement, and Operate) workspace for freshman engineers to convert the idea into a working model.

Plan for the sustenance of IDEA Lab beyond two years:

- To establish a multidisciplinary Centre of Excellence through the IDEA Laboratory.

- Availability of the IDEA laboratory to the students 24/7 to enhance their skills and competencies.

- To organize continuous skill development courses for the students and faculty members of the host and other institutes.

- To meet the requirements of the industry's needs/expectations, value-added courses will be organized for students.

- To facilitate networking with professional resources, which include mentors, experts, and consultants for carrying out research and consultancy works in the college.

- To provide training to small-scale industries, polytechnic colleges and nearby schools.

Prof. Rajat Gupta
Vice Chancellor

The establishment of AICTE Sponsored "IDEA Lab" can be accessed *here*

Appendix IDEA Lab

The proposal was moved by **Dr. R. S. Valarmathi**, Professor & Dean - Academic Research.

The motion was seconded by **Dr. M. Rajeev Kumar**, Professor & Dean - Quality Assurance.

The motion was carried.

49.7 **To discuss and approve the initiatives taken in the implementation of semester long internship during 6th semester of the B.Tech. programme.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the initiatives taken in the implementation of semester long internship during 6th semester of the B.Tech. programme.

Dr. P. Chandrakumar, Professor & Dean – R&D and Industry Relations, presented the initiatives taken in the implementation of semester long internship during 6th semester of the B.Tech. programme.

The implementation of "Semester Long Internship" can be accessed *here*

Appendix Semester Long Internship

The proposal was moved by **Dr. P. Chandrakumar**, Professor & Dean - R&D and Industry Relations.

The motion was seconded by **Dr. S. P. Chokkalingam** , Professor & Dean - SoC.

The motion was carried.

49.8 **To discuss and approve the 27th meeting of the Research Advisory Board held on March 12, 2025.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the 27th meeting of the Research Advisory Board held on March 12, 2025.

Dr. D. Haripriya, Professor, presented the 27th meeting of the Research Advisory Board held on March 12, 2025.

Prof. Rajat Gupta
Vice Chancellor

Minutes of the 49th meeting of the Academic Council, May 24, 2025.

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The Research Advisory Board can be accessed *here*

Appendix Research Advisory Board

The motion was proposed and moved by **Dr. D. Haripriya**, Professor for consideration and approval.

The motion was seconded by **Dr. S. P. Chokkalingam**, Professor & Dean - SoC.

The motion was carried.

49.9 **To discuss and approve the amendments made in the Regulations VTR UGE - 2021 pertaining to increase of the maximum no. of credit limit upto 30 per semester.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the amendments made in the RegulationsVTR UGE - 2021 pertaining to increase of the maximum no. of credit limit upto 30 per semester.

Dr. S. Raju, Professor & Dean Academics, presented the amendments made in the Regulations **VTR UGE - 2021** pertaining to increase of the maximum no. of credit limit upto 30 per semester.

The Amendments made in Regulations VTR UGE - 2021 can be accessed *here*

Appendix Ammendments

- **Dr. K. Sankaranarayanasamy** has suggested to have the minimum credits limit is 20 in a semester.

- **Dr. K. Sankaranarayanasamy** has suggested to have the "one Board of studies for one Programme".

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Prof. Dr. B. Venugopal**, Professor & Dean - SoL.

The motion was carried.

Prof. Rajat Gupta
Vice Chancellor

49.10 **To discuss and approve the Academic Calendar for Academic Year 2025-26 for both the Under Graduate (UG) Programmes and Post Graduate (PG) Programmes.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the Academic Calendar for Academic Year 2025-26 for both the Under Graduate (UG) Programmes and Post Graduate (PG) Programmes.

Dr. S. Raju, Professor & Dean Academics, presented the Academic Calendar for Academic Year 2025-26 for both the Under Graduate (UG) Programmes and Post Graduate (PG) Programmes.

The Academic Calendar can be accessed *here*

Appendix AC

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Dr. A. Jayabal**, Professor & Dean - School of Commerce.

The motion was carried.

49.11 **To discuss and approve the new Regulations "VTR UGE - 2025" for Under Graduate Engineering and Technology for the forthcoming academic year.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the new Regulations **"VTR UGE - 2025"** for Under Graduate Engineering and Technology for the forthcoming academic year.

Dr. S. Raju, Professor & Dean Academics, presented the new Regulations **"VTR UGE - 2025"** for Under Graduate Engineering and Technology for the forthcoming academic year.

The Regulations VTR UGE - 2025 can be accessed *here*

Appendix VTR UGE - 2025

• **The Vice-Chancellor** suggested conducting a internal meeting to discuss the details required for the "Award of Degree".

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Dr. S. Ramesh**, Professor & Controller of Examinations.

The motion was carried.

Prof. Rajat Gupta
Vice Chancellor

49.12 **To Consider and approve the proposed student Intake for the various programme for the Academic Year 2025-26.**

The Vice Chancellor, placed before the Academic Council to consider and approve the proposed student Intake for the various programme for the Academic Year 2025-26.

Dr. E. Kannan, Professor & Registrar, presented the proposed student Intake for the various programme for the Academic Year 2025-26.

The Approved Intake can be accessed *here*

Appendix EoA

The motion was proposed and moved by **Dr. E. Kannan**, Professor & Registrar.

The motion was seconded by **Dr. R.S.Valarmathi**, Professor & Dean (SoEC) and HoD of Dept. of Electronics and Communication Engineering.

The motion was carried.

C. Items for Reporting

49.13 **To report and record the results of the Ph.D. viva voce conducted since last Academic Council held on February 22, 2025.**

The Vice Chancellor, placed before the Academic Council to ratify the results of the Ph.D. viva voce examinations conducted since last Academic Council held on February 22, 2025.

Ph.D. viva voce completed candidates list can be accessed here

Dr. S. Ramesh, Controller of Examinations, presented the report on results of the Ph.D. viva voce examinations conducted since last Academic Council held on February 22, 2025.

Appendix Ph.D. viva voce

RESOLVED that "the results of the Ph. D. viva voce examinations conducted since last Academic Council held on February 22, 2025" moved by Dr. S. Ramesh, Controller of Examinations, be approved and recorded.

Prof. Rajat Gupta
Vice Chancellor

49.14 **To report and record the status of process of the submission of NBA applications for 4 departments namely Biomedical, Civil, CSE and ECE.**

The Vice Chancellor, placed before the Academic Council to report and record the status of process of the submission of National Board of Accreditation (NBA) Self Assessment Report (SAR) for Four Undergraduate Engineering Programmes namely Biomedical Engineering, Civil Engineering, Computer Science & Engineering (CSE), and Electronics & Communication Engineering (ECE).

Dr. M. Rajeev Kumar, Professor & Dean Quality Assurance, presented the status of the submission of National Board of Accreditation (NBA) Self Assessment Report (SAR) for Four Undergraduate Engineering Programmes. namely Biomedical Engineering, Civil Engineering, Computer Science & Engineering (CSE), and Electronics & Communication Engineering (ECE).

Summary Note:

A fresh application for accreditation was initiated on 23rd January 2025. Subsequently, the Pre-Qualifier was submitted on 23rd February 2025, and the Self-Assessment Report (SAR) was successfully submitted on 23rd April 2025. Additionally, a set of five possible visit dates has been communicated to the NBA for scheduling the evaluation team's visit.

RESOLVED that "the status of process of the submission of NBA applications for 4 departments namely Biomedical, Civil, CSE and ECE" moved by Dr. M. Rajeev Kumar, Professor & Dean Quality Assurance, be approved and recorded.

49.15 **To record the progression and achievements with the one year strategic plan of the ensuring academic year in respect of the following departments and divisions:**

      a) Department of Aeronautical Engineering.

      b) Department of Civil Engineering.

      c) Department of Mechanical Engineering.

      d) Office of Campus to corporate.

      e) Office of Human Resource Development Centre.

The Vice Chancellor, placed before the Academic Council to record the progression and achievements with the one year strategic plan of the ensuring academic year in respect of the following departments and divisions.

a) Department of Aeronautical Engineering

Dr. R. Jaganraj, Associate Professor & Head - Department of Aeronautical Engineering, presented the progression and achievements with the one year strategic plan.

Progression of the Department of Aeronautical can be accessed here.

RESOLVED that the Progression of Department of Aeronautical Engineering and their academic achievements submitted by Dr. R. Jaganraj, Associate Professor & Head - Department of Aeronautical Engineering, be recorded.

b) **Department of Civil Engineering**.

Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering, presented the Progression of School of Management and their academic acheivements with the one year strategic plan.

Progression of the Department of Civil can be accessed here.

RESOLVED that the Progression of Department of Civil Engineering and their academic achievements submitted by Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering, be recorded.

c) **Department of Mechanical Engineering**.

Dr. S. Jeyavelu, Professor & Head - Department of Mechanical Engineering, presented the Progression of Department of Mechanical Engineering and their academic acheivements with the one year strategic plan.

Progression of the Department of Mechanical can be accessed here.

RESOLVED that the Progression of Department of Mechanical Engineering and their academic achievements submitted by Dr. S. Jeyavelu, Professor & Head - Department of Mechanical Engineering, be recorded.

d) **Office of Human Resource Development Centre**.

Dr. P. Suresh, Professor & Dean - International Relations & HRDC, presented the Progression of Office of Human Resource Development Centre and their academic acheivements with the one year strategic plan of office of Human Resource Development Centre.

Progression of the Office of Human Resource Development Centre can be accessed here.

The Vice-Chancellor suggested conducting training sessions for all the non-teaching staff.

RESOLVED that the Progression of Office of Human Resource Development Centre and their academic achievements submitted by Dr. P. Suresh, Professor & Dean - International Relations & HRDC, be recorded.
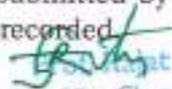
Gupta

e) Office of Campus to corporate

Dr.P. Vijayaraman, Professor & Dean - (Campus to Corporate), presented the Progression of Office of Campus to corporate and their academic achievements with the one year strategic plan.

Progression of the Office of Campus to corporate can be accessed here.

RESOLVED that the Progression of Office of Campus to corporate and their academic achievements submitted by Dr.P. Vijayaraman, Professor & Dean - (Campus to Corporate), be recorded.

E. Closing

49.16   Any other items with the permission of the Chairperson.

No item other than those listed in the Agenda was taken up for discussions.

49.17   To decide the date of holding the next meeting of the Academic Council.

It has been decided that the 50th Regular Meeting of the Academic Council will be held tentatively on **Saturday, August 23, 2025.**

49.18   Vote of Thanks.

Dr. E. Kannan, Professor & Registrar, expressed his thanks to all the members of the Academic Council for their presence and valuable contributions.

49.19   Adjournment

The meeting was adjourned at 2 PM.

<p style="text-align:center">★★★</p>

Prof. Rajat Gupta
Vice Chancellor

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

48th MEETING

OF

THE ACADEMIC COUNCIL

Saturday, February 22, 2025

MINUTES

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MINUTES OF THE
48th MEETING OF THE ACADEMIC COUNCIL

Saturday, February 22, 2025, at 10.30 a.m.

The Vice Chancellor welcomed all the members and highlighted the achievements of the Institution.

A. Opening

48.1 **To record leave of absence of the members.**

The following member have expressed their inability to attend the meeting due to various reasons.

* **Dr. Vijayaraman**
  Dean (Campus to Corporate),
  Vel Tech Rangarajan Dr.Sagunthala R&D Institute of science and Technology

* **Dr. R. Srinivasan**
  Professor / CSE,
  Vel Tech Rangarajan Dr.Sagunthala R&D Institute of science and Technology

* **Dr. A. Bhagyalakshmi**
  Professor / CSE,
  Vel Tech Rangarajan Dr.Sagunthala R&D Institute of science and Technology

The Chair has noted their leave of absence.

The list of members attended the 48th meeting of the Academic Council can be accessed *here*

Appendix Attendance & Absent list

RESOLVED to record the leave of absence of the members due to unavoidable prior commitments and some obvious reasons.

48.2 **Call to Order and Approval of Agenda of the 48th meeting of the Academic Council.**

The Vice Chancellor called to order and placed the agenda of the 48th meeting of the Academic Council for confirmation which was circulated to members by e-mail.

48.3   Confirmation of the minutes of 47th meeting of the Academic Council held on Saturday, November 23, 2024.

The minutes of the 47th meeting of the Academic Council held on November 23, 2024 were circulated to the members.

The draft minutes of the 47th meeting of the Academic Council can be accessed _here_

Appendix A

RESOLVED, that the Minutes of the 47th meeting of the Academic Council held on November 23, 2024 be confirmed.

48.4   To review the Action Taken Report on the minutes of the 47th meeting of the Academic Council held on Saturday, November 23, 2024.

The Vice Chancellor, placed before the Academic Council to consider the Action Taken Report in respect of the 47th meeting of the Academic Council as described in Table 1.

Table 1: Action Taken Report in respect of 47th meeting of the Academic Council.

S.No.	Agenda Item	Decision Taken	Action Taken Report
1	Item No 47.4 – Page 02 Dr. Nandagopan provided the list of topics/Area of expertise from CVRDE for "Adoption of content into our curriculum and syllabus as Core and Elective Courses" and also he proposed that research scholars could select topics from CVRDE and make use of the laboratory facilities as well.	Topics were selected and presented in the BoS of ECE, EEE,Aero.	Students will have to study these topics from the current semester.
2	Item No 47.5 – Page 04 Prof. R.Venkata Rao, External Member has suggested to offer the Legal Education Programme as continuing education for trial court lawyer professionals.	In Progress	will be reported in the Next ACM.
3	Item No 47.6 – Page 09 Experts suggested that appoinment of "Professor of Practice for Law programme" shall be considered.	Identification of PoP is in Progress	will be reported in the Next ACM.

4	Item No 47.11(a) – Page 13 Dr. Rajeev Kumar, Dean-IQAC suggested to do comparative analysis for Non - Engineering programme with State universities and deemed universities in Tamil Nadu for fixing the 4 years programme.	Institutions from Tamil Nadu are yet to implement the guidelines from Higher Education department are awaited.	This will be reported in the Next ACM.
5	Item No 47.11(a) – Page 13 Dr. Rajeev Kumar, Dean-IQAC suggested to give more clarification about Minor degree (164 credits) is mentioned within the credit structure or addition to that credit structure.	Minor degree may be offered for those students willing to study 18 credits from different domain, in addion to 164 credits	This will be implemented for the B.Tech students admitted in the AY 2023-24 and 2024-25.
6	Item No 47.11(a) – Page 13 Mr. K. Balaji, External Member suggested to collaborate with Industries for Lab courses in the upcoming Regulations	Discussion is in Progress with Dean - Industry Relations to identify the Industries.	Will be Implemented from the AY 2025-26
7	Item No 47.11(c) – Page 14 Dr. Nandagopan suggested to do short documentary film based on the Societal Importance as internship for School of Media.	In Progress	will be reported in the Next ACM.

The Council has taken note on the Action Taken report of the 47th meeting of the Academic Council held on November 23, 2024.

RESOLVED, that the Action Taken Report be approved.

B. Items for Discussion & Approval

48.5 **To discuss and approve the amendments made in Regulations "VTR UGE - 2021" for Under Graduate Engineering.**

The Vice Chancellor, placed before the Academic Council to discuss and approve the amendments made in Regulations **"VTR UGE - 2021"** for Under Graduate Engineering.

Dr. S. Raju, Professor & Dean Academics, presented the amendments made in Regulations **"VTR UGE - 2021"** for Under Graduate Engineering.

The Amendments made in Regulations VTR UGE - 2021 can be accessed _here_

**Appendix
Ammendments**

- **Dr. Nandagopan** suggested that research topics are available in ISSRO, DRDO and DST and some government agencies website. Select the topics based on their expertise and breaking into multiple streams and distribute to students for selecting the project titles.

- **Head - Aero** requested that few contents from the core courses to be offered by Industry Experts.

- **Dean - Industry Relations** suggested that to utilize the Adjunct Faculty/Professor of Practice to handle the seminar/Gust lecture and guide the Projects.

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Dr. M.S.R. Mariyappan** , Professor & Dean - School of Management.

The motion was <u>carried.</u>

48.6   To discuss and approve the amendments made in Regulations "VTR UGAS 2021" for Under Graduate Arts and Science.

The Vice Chancellor, placed before the Academic Council to discuss and approve the amendments made in Regulations **"VTR UGAS 2021"** for Under Graduate Arts and Science.

Dr. S. Raju, Professor & Dean Academics, presented the amendments made in Regulations **"VTR UGAS 2021"** for Under Graduate Arts and Science.

The Amendments made in Regulations VTR UGAS - 2021 can be accessed *here*

Appendix Ammendments

Registrar suggested that "There will be a maximum limit to be fixed for re-register courses".

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Dr. P. Suresh**, Professor & Dean International Relations.

The motion was <u>carried.</u>

48.7   To discuss and approve the Regulations for Integrated Master's + Ph.D. programmes.

The Vice Chancellor, placed before the Academic Council to discuss and approve the Regulations for Integrated Master's + Ph.D. programmes.

Dr. S. Raju, Professor & Dean Academics, presented the Regulations for Integrated Master's + Ph.D. programmes.

The new Regulations for Integrated Master's + Ph.D. can be accessed *here*

**Appendix
Master's + Ph.D.**

Dean - Industry Relations suggested that the Conversion Rate of "P.G. to Ph.D." need to be analyzed for the previous batches.

Vice Chancellor suggested that the committee need to be formed to scrutinize the applications for determining equivalence of qualifications for admission.

The motion was proposed and moved by **Dr. S. Raju**, Professor & Dean Academics.

The motion was seconded by **Dr. M. Rajeev Kumar**, Professor & Dean - Quality Assurance.

The motion was <u>carried</u>.

48.8   To discuss and approve the minutes of the Board of Studies of various departments.

1. School of Mechanical and Construction

A.   Department of Civil Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 28th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Civil Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

The Minutes of the BoS meeting can be accessed here

Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering & BoS - Chairman, presented the recommendations of the Board of Studies meeting held on January 25, 2025.

Appendix Civil

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. Nandagopan Suggested that to include advanced topics in corrosion engineering.

Dr. A. Geetha Selvarani, Professor & Head - Department of Civil Engineering & BoS - Chairman, moved the recommendations of the Board of Studies of Under Graduate

(UG) and Post Graduate (PG) Programmes under the Depa rtment of Civil Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. R. Jegan Raj, Associate Professor & Head - Department of Aeronautical Engineering, seconded it.

The motion was <u>carried.</u>

B. Department of Mechanical Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 40th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Mechanical Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

The Minutes of the BoS meeting can be accessed <u>here</u>

Dr. S. Jayavelu, Professor & Head - Department of Mechanical Engineering & BoS - Chairman, presented the recommendations of the 40th meeting of the Board of Studies held on January 25, 2025.

Appendix MECH

The Summary and presentation of the BoS Minutes can be accessed <u>here</u>.

Dr. S. Jayavelu, Professor & Head, Department of Mechanical Engineering, moved the recommendations of the 40th Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under the Department of Mechanical Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. A. Geetha Selvarani, Professor, Head - Department of Civil Engineering, seconded it.

The motion was <u>carried.</u>

2. School of Electrical and Communication

A. Department of Bio Medical Engineering

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 13th Board of Studies of Department of Bio Medical Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix BIOMED

Dr. D. Balasubramaniam, Associate Professor & Head - Department of Bio Medical Engineering & BoS - Chairman, presented the recommendations of the 13th meeting of the Board of Studies conducted on December 27, 2024.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. D. Balasubramaniam, Associate Professor & Head - Department of Bio Medical Engineering & BoS - Chairman, moved the recommendations of the 13th Board of Studies of Department of Bio Medical Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr.K. Karunanidhi, Professor & Head, Department of Electrical and Electronics Engineering, seconded it.

The motion was carried

B. **Department of Biotechnology**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 12th Board of Studies of Department of Biotechnology to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix Biotech

Dr. P. Azhagu Saravana Babu, Professor & Head - Department of Biotechnology & BoS - Chairman, presented the recommendations of the 13th meeting of the Board of Studies.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. P. Azhagu Saravana Babu, Professor & Head - Department of Biotechnology & BoS - Chairman, moved the recommendations of the 13th meeting of the Board of Studies of Department of Biotechnology to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. A. Selwin Mich Priyadharson, Professor & Head, Department of Electronics & Communication Engineering, seconded it.

The motion was carried

C. **Department of Electrical and Electronics Engineering**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 33rd Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electrical and Electronics Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix EEE

Dr. K. Karunanithi, Professor & Head - Department of Electrical and Electronics Engineering & BoS - Chairman, presented the recommendations of the 33rd meeting of the Board of Studies held on February 8, 2025.

The Summary and presentation of the BoS Minutes can be accessed here.

- **Dean - Industry Relations** suggested to offer the Electric vehicle specialization courses with lab facility.

Dr. K. Karunanithi, Professor & Head - Department of Electrical and Electronics Engineering & BoS - Chairman, moved the recommendations of the 33st Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electrical and Electronics Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. P. Azhagu Saravana Babu, Professor & Head, Department of Bio Technology, seconded it.

The motion was <u>carried</u>

D. **Department of Electronics and Communication Engineering**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 42nd Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electronics and Communication Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix ECE

Dr. A. Selwin Mich Priyadharson, Professor & Head - Department of Electronics and Communication Engineering & BoS - Chairman, presented the recommendations of the 42nd Board of Studies meeting held on December 19, 2024.

The Summary and presentation of the BoS Minutes can be accessed here.

Dean - Industry Relations suggested to offer the specialization courses in general elective category.

Dr. A. Selwin Mich Priyadharson, Professor & Head - Department of Electronics and Communication Engineering & BoS - Chairman, moved the recommendations of the 42nd Board of Studies of Under Graduate (UG) and Post Graduate (PG) Programmes under Department of Electronics and Communication Engineering to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. D. Balasubramaniam, Associate Professor & Head, Department of Bio Medical, seconded it.

The motion was <u>carried</u>

3. **School of Computing**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

The Minutes of the BoS meeting can be accessed <u>here</u>

Prof. Dr. S. P. Chokkalingam, Professor & Dean - School of Computing & BoS - Chairman, presented the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing.

Appendix SoC

The Summary and presentation of the BoS Minutes can be accessed <u>here</u>.

• CoE suggested to follow the common CO pattern for all the courses as per Regulations.

• Vice-Chancellor suggested to conduct one common day for all programmes.
Prof. Dr. S. P. Chokkalingam, Professor & Dean - School of Computing & BoS - Chairman, moved the recommendations of the Board of Studies of All Under Graduate (UG) and Post Graduate (PG) Programmes under School of Computing to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

Dr. Dhilip Kumar, Professor & Associate Dean, School of Computing, seconded it.

The motion was <u>carried</u>

• **Arts and Science - Under Graduate (UG) Programmes**

a) **B.Sc. Multimedia.and B.Sc. Visual Communication**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 17th Board of Studies for **B.Sc. Multimedia.and B.Sc. Visual Communication** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

The Minutes of the BoS meeting can be accessed <u>here</u>

Dr. E. Suresh Paul, Professor & Dean - School of Media Technology & Communication, presented the recommendations of the 17th Board of Studies meeting conducted on February 10, 2025.

Appendix Multimedia

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. E. Suresh Paul, Professor & Dean , School of Media Technology & Communication, moved the recommendations of the 17th Board of Studies for **B.Sc. Multimedia.and B.Sc. Visual Communication** to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

The motion was seconded by **Dr. K. Ravishankar**, Professor & Head,Department of Management.

The motion was <u>carried.</u>

b) **Bachelor of Commerce (B.Com.)**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 5th Board of Studies for **Bachelor of Commerce (B.Com.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

The Minutes of the BoS meeting can be accessed here

Dr. A. Arumugam, Professor & Head, Department of Commerce, presented the recommendations of the 5th Board of Studies meeting.

Appendix BCom

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. A. Arumugam, Professor & Head, Department of Commerce, moved "the recommendations of the 5th Board of Studies for **Bachelor of Commerce (B.Com.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.

The motion was seconded by **Dr. S. Jayavelu**, Professor & Head,Department of Mechanical Engineering.

The motion was <u>carried.</u>

c) **Bachelor of Business Administration (B.B.A.)**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 5th Board of Studies for **Bachelor of Business Administration (B.B.A.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix BBA

Dr. K. Ravishankar, Professor & Head, Department of Management, presented the recommendations of the 5th Board of Studies meeting.

Members suggested to modify the name for the course "Digital Scam".

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. K. Ravishankar, Professor & Head, Department of Management, moved the recommendations of the 5th Board of Studies for **Bachelor of Business Administration (B.B.A.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25 for consideration and approval.

The motion was seconded by **Dr. B. Someshwara Rao**, Professor & Head, School of Law.

The motion was carried.

- **Arts and Science - Post Graduate Programmes**

a) **M.A. - English**
   The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 6th Board of Studies for **M.A. - English** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix ENG

Dr. P. Revathi, Associate Professor & Head, Department of English, presented the recommendations of the 6th Board of Studies meeting conducted on December 12, 2024.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. P. Revathi, Associate Professor & Head, Department of English, moved "the recommendations of the 6th Board of Studies for **M.A. English** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.
The motion was seconded by **Dr. A. Arumugam**, Professor & Head, Department of Commerce.

The motion was carried.

b) **M.Sc. - Mathematics**
   The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 8th Board of Studies for **M.Sc. - Mathematics** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix MATHS

Dr. J. Viswanath, Professor & Head, Department of Mathematics, presented the recommendations of the 8th Board of Studies meeting conducted on December 18, 2024.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr.J. Viswanath, Professor & Head, Department of Mathematics, moved "the recommendations of the 8th Board of Studies for **M.Sc. - Mathematics** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.

The motion was seconded by **Dr. J. Visumathi**, Professor & Head,Department of Information Technology.

The motion was <u>carried.</u>

c) **M.Sc. - Physics**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the 7th Board of Studies for **M.Sc. - Physics** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Appendix PHY

Dr. D. Senthil Kumar, Associate Professor & Head, Department of Physics, presented the recommendations of the 7th Board of Studies meeting conducted on January 07, 2025.

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. D. Senthil Kumar, Associate Professor & Head, Department of Physics, moved "the recommendations of the 7th Board of Studies for **M.Sc. Physics** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.

The motion was seconded by **Dr. P. Revathi**, Professor & Head,Department of English.

The motion was <u>carried.</u>

d) **M.Sc. - Chemistry**

The Vice Chancellor, placed before the Academic Council to consider the recommendations of the Board of Studies for **M.Sc. - Chemistry** to be implemented with

effect from the Winter Semester of the Academic Year 2024-25.

Dr. CH. Hazarathaiah Yadav, Professor & Head, Department of Chemistry, presented the recommendations of the Board of Studies meeting conducted on Jan 10, 2025.

Appendix CHEM

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. CH. Hazarathaiah Yadav, Professor & Head, Department of Chemistry, moved "the recommendations of the Board of Studies for **M.Sc. - Chemistry** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.

The motion was seconded by **Dr. P. Revathi**, Professor & Head, Department of English.

The motion was <u>carried.</u>

- **Management - Post Graduate Programmes**

a) **Master of Business Administration (M.B.A.)**
   The Vice Chancellor, placed before the Academic Council to consider the recommendations of the Board of Studies for **Master of Business Administration (M.B.A.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25.

Dr. K. Ravishankar, Professor & Head, Department of Management, presented the recommendations of the 28th Board of Studies meeting.

Appendix MBA

The Summary and presentation of the BoS Minutes can be accessed here.

Dr. K. Ravishankar, Professor & Head, Department of Management, moved "the recommendations of the Board of Studies for **Master of Business Administration (M.B.A.)** to be implemented with effect from the Winter Semester of the Academic Year 2024-25" for consideration and approval.

The motion was seconded by **Dr. D. Senthil Kumar**, Professor & Head, Department of Physics.

The motion was <u>carried.</u>

C. Items for Ratification

48.9 **To ratify and record the admissions of candidates to Doctoral (Ph.D.) level programmes for Winter Semester of the Academic Year 2024-25.**

The Vice Chancellor, placed before the Academic Council to ratify the admissions of candidates to Doctoral (Ph.D.) level programmes for Winter Semester of the Academic Year 2024-25.

Dr. K. Jagajjanani Rao, Associate Professor & Dean - Academic Research, presented the admissions of candidates to Doctoral (Ph.D.) level programmes for Winter Semester of the Academic Year 2024-25.

Table 2: Statistics of Ph.D. Admission AY 2024-25 (Winter Semester)

S.No	Department	Applied	Eligible for Entrance Exam	Selected in Interview	Mode of Study		
					Full Time	Part Time	Total
Engineering							
1	AERO	9	9	8	2	5	7
2	BIO-MEDICAL	1	1	1	0	0	0
3	BIOTECH	16	15	12	4	6	10
4	CIVIL	5	5	3	1	0	1
5	CSE	85	84	64	7	43	50
6	IT	4	3	3	0	1	1
7	ECE	30	29	18	3	9	12
8	EEE	6	6	5	0	4	4
9	MECH	24	24	23	2	14	16
	TOTAL	180	176	137	19	82	101
S&H							
10	CHEMISTRY	11	9	9	4	4	8
11	CSE	16	9	12	1	10	11
12	ENGLISH	40	13	11	3	6	9
13	MATHS	26	13	21	10	7	17
14	PHYSICS	16	14	12	9	1	10
	TOTAL	109	58	65	27	28	55
MBA, Commerce & Media							
15	MBA	23	20	18	2	13	15
16	COMM-ERCE	15	4	11	3	3	6
17	MEDIA	2	2	2	2	0	2
	TOTAL	40	26	31	7	16	23
	OVER ALL TOTAL	**329**	**260**	**233**	**53**	**126**	**179**

Dean - Research Studies requested all deans and heads to utilize the common conference room and separate seating in library for their research scholars.

The motion was proposed and moved by **Dr. K. Jagajjanani Rao**, Associate Professor & Dean - Academic Research.

The motion was seconded by **Dr. M. Rajeev Kumar**, Professor & Dean - Quality Assurance.

The motion was carried.

48.10 To ratify and record the admissions under Re-Admission category during the Winter Semester of the Academic Year 2024-25.

The Vice Chancellor, placed before the Academic Council to ratify the admissions under Re-Admission category in the Winter Semester of the Academic Year 2024-25.

Dr. E. Kannan, Professor & Registrar, presented the list of students admitted through Re Admission category in the Winter Semester of the Academic Year 2024-25.

Table 3: Students admitted through Re-Admission in Winter Semester AY 2024-25

S.No	Batch	VTU No.	Name of the Student	Programme	Dept.	Sem /Year	Circular No.
1	23-24	VTU 26854	Mekala Manoj	B.Tech.	EEE	III/II	Circular No.87 dated on 13.01.2025
2	22-23	VTA 2392	Rithish Kumar	B.A.LL.B. (Hons)	-	IV/II	Circular No.87 dated on 13.01.2025
3	22-23	VTA 1855	S Jessen	B.A.LL.B. (Hons)	-	IV/II	Circular No.87 dated on 13.01.2025
4	21-22	VTA 1436	S. Ajardeen	B.A. LL. B. (Hons)	-	VI/III	Circular No. 88 dated on 22.01.2025
5	23-24	VTA 2823	S. Kumara Kannan	B.Com.	-	II/I	Circular No. 88 dated on 22.01.2025
6	23-24	VTA 2649	P Pradeep Kumar	BBA	-	II/I	Circular No. 88 dated on 22.01.2025

7	23-24	VTP 4112	V Suresh Kumar	M.Tech	Big Data Analytics	III/II	Circular No. 88 dated on 22.01.2025
8	20-21	VTU 16034	Vemula Sai Harshavardhan	B.Tech.	CSE	V/III	Circular No. 88 dated on 22.01.2025
9	21-22	VTA 1340	S.K. Bovas	B.A. LL. B. (Hons)	-	VI/III	Circular No.85 dated on 07.01.2025
10	20-21	VTU 17232	Aniket Kumar Yadav	B.Tech.	ECE	VIII/IV	Circular No.89 dated on 23.01.2025
11	22-23	VTU 23413	P Siva	B.Tech.	ECE	V/III	Circular No.89 dated on 23.01.2025
12	20-21	VTU 15974	G Jayakrishna	B.Tech.	CSE	VIII/IV	Circular No.90 dated on 24.01.2025
13	21-22	VTU 20108	M Raja Mohan Reddy	B.Tech.	I.T	VII/IV	Circular No.94 dated on 30.01.2025
14	21-22	VTU 21081	Ganga Thilak	B.Tech.	AERO	VII/IV	Circular No.95 dated on 04.02.2025
15	22-23	VTU 22939	M Siva Chaittanya	B.Tech.	CSD	IV/II	Circular No.99 dated on 12.02.2025
16	20-24	VTU 17621	Shaik Sameera	B.Tech.	CSE	VIII/IV	Circular No.103 dated on 20.02.2025

Dr. E. Kannan, Professor & Registrar, moved "the list of students admitted through Re-Admission category in the Winter Semester of the Academic Year 2024-25" for consideration and ratification.

The motion was moved by **Dr. E. Kannan**, Professor & Registrar.

The motion was seconded by **Dr. P. Chandrakumar**, Professor & Dean - R & D and Industry Relations.

The motion was <u>carried.</u>

48.11 **To ratify and record the examination results of Semester End Examinations held during the Summer Semester of Academic Year 2024-25.**

The Vice Chancellor, placed before the Academic Council to record the result analysis of the Semester end examination held during Summer Semester of the Academic Year 2024-25.

The Result Analysis can be

accessed <u>here</u>

Appendix Result Analysis

Dr. S. Ramesh, Professor & Controller of Examinations, presented the result analysis of the Semester end examination held during Summer Semester of the Academic Year 2024-25.

Dr. S. Ramesh, Professor & Controller of Examinations, moved "the result analysis of the semester end examination held during Summer Semester of the Academic Year 2024-25" for consideration and ratification.

Dr. G. Gunasekaran, Professor & Dean - School of Freshman Engineering, seconded it.

The motion was <u>carried</u>

D. Items for Reporting

48.12 **To report and record the results of the Ph.D. viva voce conducted since last Academic Council held on November 23, 2024.**

The Vice Chancellor, placed before the Academic Council to ratify the results of the Ph.D. viva voce examinations conducted since last Academic Council held on November 23, 2024.

Ph.D. viva voce completed candidates

list can be accessed <u>here</u>

Appendix Ph.D. viva voce

Dr. S. Ramesh, Controller of Examinations, presented the report on results of the Ph.D. viva voce examinations conducted since last Academic Council held on November 23, 2024.

RESOLVED that "the results of the Ph. D. viva voce examinations conducted since last Academic Council held on November 23, 2024" moved by **Dr. S. Ramesh**, Controller of Examinations, be approved and recorded.

48.13 **To record the progression and achievements of the following Schools and Divisions:**

a) School of Law.

b) School of Management.

c) School of Commerce.

The Vice Chancellor, placed before the Academic Council to report the progression of School of Law, School of Management and School of Commerce & their academic achievements.

a) **School of Law**

Dr. B. Venugopal, Professor & Dean - School of Law, presented the Progression of School of Law and their academic acheivements.

Progression of the School of Law can be accessed here.

RESOLVED that the Progression of School of Law and their academic achievements moved by **Dr. B. Venugopal**, Professor & Dean - School of Law, be recorded.

b) **School of Management**.

Dr. M.S.R. Mariyappan, Professor & Dean - School of Management, presented the Progression of School of Management and their academic acheivements.

Progression of the School of Management can be accessed here.

RESOLVED that the Progression of School of Management and their academic achievements moved by **Dr. M.S.R. Mariyappan**, Professor & Dean - School of Management, be recorded.

c) **School of Commerce**.

Dr. A. Jayabal , Professor & Dean - School of Commerce, presented the Progression of School of Commerce and their academic acheivements.

Progression of the School of Commerce can be accessed here.

RESOLVED that the Progression of School of Commerce and their academic achievements moved by **Dr. A. Jayabal** , Professor & Dean - School of Commerce, be recorded.

E. Closing

48.14   Any other items with the permission of the Chairperson.

48.15   To decide the date of holding the next meeting of the Academic Council.

49th Regular Meeting of the Academic Council is tentatively scheduled in the **Month of May**.

48.16 Vote of Thanks.

Dr. E. Kannan, Professor & Registrar, expressed his thanks to all the members of the Academic Council for their presence and valuable contributions.

48.17 Adjournment

The meeting was adjourned at 2.10 PM.

✮✮✮

School of Mechanical and Construction

Department of Aeronautical Engineering

29th Board of Studies Meeting

Tuesday, 20 May 2025

10.30 am, Department office, Aeronautical Engineering & Hybrid Mode

To join the video meeting, click this link: https://meet.google.com/gfu-pghu-xhx

Members

S.No.	Faculty Name	Designation	BoS Designation	Signature
1	Dr. R. Jaganraj	Associate Professor, Vel Tech	Chairman	
2	Dr. K.M. Parammasivam	Head & Professor, Aero, MIT, Anna University	Academic Expert Nominee	online
3	Dr. Dinesh Manoharan	CTO, Avironix Pvt Ltd , Chennai	Industry Expert Nominee	online
4	Dr. Ganesan. S	Professor, Vel Tech	Ex officio - Professor Nominee	Ganesan
5	Dr. Sai Prasanna Kumar. J.V	Professor, Vel Tech	Ex officio - Professor Nominee	
6	Dr. Boopathy. G	Professor, Vel Tech	Ex officio - Professor Nominee	
7	Dr. Naren Shankar. R	Professor, Vel Tech	Ex officio - Professor Nominee	Online
8	Dr. Jaiswal BL	professor of emeritus, Vel Tech	Ex officio - Professor Nominee	Online
9	Dr. G. Surendar	Associate Professor, Vel Tech	Ex officio - Asso. Professor Nominee	Online
10	Dr. Joseph J Kakkassery	Assistant Professor, Vel Tech	Assistant Professor Nominee	Online
11	Dr. Gowtham. G	Assistant Professor, Vel Tech	Assistant Professor Nominee	
12	Dr. Vinothkumar. M	Assistant Professor, Vel Tech	Assistant Professor Nominee	
13	Mr. S.M. Vignesh	Application Engineer CAD, Ansys	Alumni	Online

Minutes of 29th Board of Studies, Aeronautical Engineering, Vel Tech.

Summary of 29th BOS of the Aeronautical Engineering,
Date: 20 May 2025 | **Mode:** Hybrid | **Venue:** Department Office

The 29th Board of Studies (BoS) meeting focused on key academic reforms and strategic curriculum development for both undergraduate and postgraduate Aeronautical Engineering programs. The Chair welcomed all members and introduced new appointees. The following highlights summarize the decisions and discussions:

1. Confirmation of Previous Minutes
- Action taken report and minutes of the 28th BoS (Nov 2024) were reviewed and approved.
- All members were present.

2. Key Discussions
a. Curriculum Revisions
- **B.Tech. Aeronautical (VTR UGE 2021 & R2025):**
  o New specialization electives introduced for Autonomous Drones, Aerospace & Defense, and Computational Engineering.
  o Semester-long internships now carry 6 credits, mapped to IHL, Program Elective, and Minor Project.
  o PEOs and PSOs revised after thorough stakeholder feedback. Emphasis placed on innovation, sustainability, interdisciplinary knowledge.
  o New curriculum and syllabus is proposed inline with NEP and draft regulations. Feedback analysis, benchmarking and deliberations were incorporated.
  o New specialization introduced. Minor & Honour is introduced.
- **M.Tech. Aeronautical (VTR PGE 2023):**
  o Course adjustments to reflect advancements in UAVs and defense technologies.
  o Proposed committee to include new PG programs in IDP (Space & Rocketry and Defense Technology under review.)

b. Curriculum Feedback & Benchmarking
- Strong input from industry, alumni, faculty, and students highlighted need for practical exposure, modern tools (MATLAB, Python, Ansys), and drone-related skills.
- Curriculum benchmarking completed with top institutions; feedback incorporated into final R2025 syllabus.

c. Pedagogical Initiatives
- Emphasis on Project-Based Learning (PBL) with structured rubrics.
- New committees to evaluate project relevance and CO alignment.

3. Reporting and Ratification
- MOOC, IPT, and IHL credit transfers reported.
- Budget of ₹30 lakhs for 2025–26 approved (₹14.25L non-recurring, ₹15.75L recurring).
- Ratification of new MOOC and IHL courses, including drone technologies, NDT case studies, and advanced aircraft systems.

4. Closing Remarks
- No additional items were discussed under "Any Other Business."
- The Chair expressed gratitude for the members' contributions.

The finalized curriculum and related annexures have been recommended for Academic Council approval.

No	Agenda
29.A	**Items for Confirmation**
29.1	Action taken report on 28th BoS minutes dated November 18, 2024
29.2	Minutes of meeting of the 28th BoS dated November 18, 2024
29.3	Leave of absence of the members
29.B	**Items for Discussions**
29.4	Revision of the curriculum and syllabus for B.Tech. Aeronautical Engineering under VTR UGE 2021.
29.5	Revision of the curriculum and syllabus for M.Tech. Aeronautical Engineering under VTR PGE 2023.
29.6	Finalization of curriculum & Syllabus for B.Tech. Aeronautical Engineering under upcoming new regulation in R2025.
29.7	Introduction of Project Based Learning, Assessment procedures, and pedagogical Initiatives for B.Tech. - Aeronautical Engineering under upcoming new regulation in R2025.
29.C	**Items for Reporting**
29.8	Details of Credit Transfer under MOOC, IPT & IHL category of courses
29.9	Budget Proposal 2025-26
29.D	**Items for Ratification, If any**
29.10	Ratification of courses for for B.Tech. Aeronautical Engineering under VTR UGE 2021 and for M.Tech. Aeronautical Engineering under VTR PGE 2023.
29.E	**Closing**
28.11	Any other item with the permission of chair
	Vote of Thanks

Minutes of the 29th Board of Studies Meeting

Department of Aeronautical Engineering

The Chair welcomed all attendees to the 29th Board of Studies meeting of the Department of Aeronautical Engineering. The Chair introduced the newly appointed members of the Board and expressed gratitude to the outgoing members for their valuable contributions.

The meeting proceeded with the discussion of the following agenda items. After detailed deliberations, the recommended action items were finalized accordingly.

29.A   Items for Confirmation

29.1   Action taken report on 28th BoS minutes dated 20th Jan 2024

The chairman, BOS, Aeronautical Engineering will present the action taken report of the 28th BOS.

Recommendations	Action Taken
28.4 Curriculum and Syllabus for B.Tech. Aerospace Engineering as per as per NEP initiates. • Aerospace is one of the rapid growing sector especially after liberalization of space policies in India. The initiatives on In-Space clearly shows the Government Interest towards space sector and its growth. The list of companies and opportunities for students are analyzed in detail. The demand ratio of the top institutes also discussed and found public interest on space related technology. • The benchmarking from top institutes are presented to members. It is decided to differ minimum 60 -70% of courses between Aerospace and Aeronautical Engineering and to focus on rocketry and satellite sector in Aerospace. The courses is modified and aligned towards India's space exploration programs and supporting aspiring space stratup in India. • The feedback analysis is observed carefully and identified that skilling is need of the hour. The courses shall focus towards design, analysis and technological tools usage.	Recommended to ACM Included in IDP Proposal
28.5 Revision of the curriculum and syllabus for B.Tech. Aeronautical Engineering as per NEP initiates. • Aeronautical Engineering courses also proposed as per NEP structure. Aerospace and Aeronautical introductory course shall be focused on main stream respectively. Proper course names are identified for design and analysis.	Modified B.Tech. Aeronautical will be proposed in present meeting.

• Flight dynamics and control system is modified and kept in proper order. Courses like aircraft systems is added. Specialization electives may be explored after fine tuning core courses. • MooC courses identified may be presented in next meeting. • Undergraduate Certificate and Undergraduate Diploma terminologies needs to be revisited. ITI and Diploma can be used in I& II year exit and BsC can be used in III year exit. Courses are fined to implement multiple entry and exit. Appropriate foundation courses also identified.	
28.6 Revision of curriculum and syllabus for B.Tech. Aeronautical Engineering as per VTR UGE 21 and M.Tech. Aeronautical Engineering as per VTR R23. • List of MooC courses will be added after analyzing with NPTEL, coursera and Edx. Recommended courses will be presented in next BOS.	Recommended courses were implemented

Action:

The members reviewed and confirmed the status of the action taken of the 28th Board of Studies meeting held on November 18, 2024.

29.2   Minutes of meeting of the 28th BoS dated November 18, 2024

The Chair presented the minutes of the 28th Board of Studies meeting held on November 18, 2024. The minutes were reviewed by the members.

Action:
The members reviewed and confirmed the minutes of the 28th Board of Studies meeting held on November 18, 2024.

29.3   Leave of absence of the members

All members were presented at the meeting

Action:

Noted. No leave of absence was recorded as all members were in attendance.

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29.B   Items for Discussions

29.4   Revision of the curriculum and syllabus for B.Tech. Aeronautical Engineering under VTR UGE 2021.

A. Addition of the courses:

1. MOOC courses are yet to be released by NPTEL for upcoming semester. After course availability, courses will be chosen and communicated to all BoS Members.

However, majority of the available courses in NPTEL & Swayam is already offered in Core. Only few courses are available apart from already available courses in core. Following courses are identified to offer as specialization elective for upcoming semester.

Specialization	Course Name & Link	Preferred Year
Aerospace & Defense	Space Environment and its Effects on Orbital Spacecrafts 12 Week / 3 Credit – https://onlinecourses.nptel.ac.in/noc25_ae35/preview	III
	Theory of Fire Propagation (Fire Dynamics) – 12 Weeks / 3 credits https://onlinecourses.nptel.ac.in/noc25_me183/preview	III
Computational Engineering	Applied Computational Fluid Dynamics / 12 Week / 3 Credit https://onlinecourses.nptel.ac.in/noc25_ae22/preview	III
Autonomous Drone Technology	Drone Systems and Control / 12 Week / 3 Credit https://onlinecourses.nptel.ac.in/noc25_ae30/preview	III
Aerospace & Defense	Space Flight Mechanics / 12 Week / 3 credit https://onlinecourses.nptel.ac.in/noc25_ae29/preview	II
Computational Engineering	Not Available in NPTEL / SWAYAM	
Autonomous Drone Technology	Not Available in NPTEL / SWAYAM	

Along with NPTEL a committee is constituted to find other certification courses relevant to MOOC for specialization courses.

2. Introduction of new set of electives for 2024-25 Admitted batch – Computational Engineering

The following Courses are added to the set of Computational Engineering Specialization Elective category.

Course Name	L	T	P	A	C	TH	Comments Received
Machine Learning for Engineering Applications	2	0	2	2	3	90	Approved without modifications

	L	T	P	A	C	TH	
Artificial Intelligence in Aerospace Engineering	2	0	2	2	3	90	Approved without modifications

3. The following Courses are added to the set of Autonomous Drone Technology Specialization Elective category.

Course Name	L	T	P	A	C	TH	Comments Received
Electric Propulsion for UAVs	3	0	0	2	3	90	Added without modifications
Communication Systems in Drones	3	0	0	2	3	90	Approved without modifications
Computer Vision for Drones	3	0	0	2	3	90	Approved without modifications
Drone Mission Planning and Fleet Management	3	0	0	2	3	90	Approved without modifications

B. Considering 6 month Internship for credit

The semester-long internship will be eligible for 6 credits, equivalent to one credit under Industry/Higher Learning Institute Interaction (IHL), three credits under Program Elective Course in the relevant domain and two credits under Independent Learning (Minor Project 2). For program elective, it is recommended to identify similar domain of the industry and submit a report on product / process learned at industry for evaluation. The committee constituted by Head will evlaute the report for "Drone / Defense / Design Industry Practices in Aeronautical Engineering".

Category	Duration	Hours of Engagement	Mode of Assessment	Credits
IHL Interaction	2 weeks	45 – 70 hours	Assessment 1	1
Program Elective	6 weeks	135 – 210 hours	Assessment 2	3
Independent Learning	4 weeks	90 – 140 hours	Project Demo and Final Report Submission	2

Action :

1. The proposed courses were discussed in detail and approved by the Board of Studies (BoS) for recommendation to the Academic Council Meeting (ACM).

2. A committee needs to be constituted by HoD to find suitable solution for NPTEL courses, if courses are not avilable during the respective semester for respective level of the student.

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29.5   Revision of the curriculum and syllabus for M.Tech. Aeronautical Engineering under VTR PGE 2023.

A. Review of Curriculum: Due to the recent developments, new policy introduction and demand in defense sector, the following revision needs to be updated for 2025-26 Admitted batch.

S.No	SEM	Course Name **Theory/ Integrated courses**	L	T	P	C	Comments by Members
1	1	Aircraft Engineering	3	0	0	3	No change
2	1	Advance Aerodynamics	4	0	0	4	No change
3	1	Aircraft Structural Mechanics	3	0	0	3	No change
4	1	Aerospace Propulsion	4	0	0	4	No change
5	2	Mathematics for Aerospace Engineering	4	0	0	4	No change
6	2	Avionics	2	0	2	3	Replace with Communication Systems in Drones
7	2	Flight Dynamics and Control	2	0	2	3	No change
8	2	Drone Rules & Regulations	2	0	0	2	No change
9	2	Aircraft Navigation, Guidance and Control	3	0	0	3	Replace with Electric Propulsion for UAVs
10	3	Introduction to Unmanned Aircraft Systems	2	0	2	3	No change
		Laboratory courses					Replace with Drone Systems and Control
11	1	Aircraft Engineering Lab	0	0	2	1	No change
12	2	Computer Aided Engineering Lab	0	0	2	1	Replace with "Drone Design Project"
		Total				34	No change

B. The following courses are added from NPTEL.

Introduction to Aircraft Design - 12 Week / 3 Credit – https://onlinecourses.nptel.ac.in/noc25_ae20/preview

C. Considering offering new PG programmes
HOD needs to review the current trend and offer PG courses in Space & Rocketry, Product Design & Development, Defense Technology. Need to form a committee and give inputs to IDP.

Action :
1. The proposed courses were discussed in detail and approved by the Board of Studies (BoS) for recommendation to the Academic Council Meeting (ACM).
2. A committee needs to be constituted by HoD to find suitable solution for NPTEL courses, if courses are not avilable during the respective semester for respective level of the student.

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29.6 Finalization of curriculum & Syllabus for B.Tech. Aeronautical Engineering under upcoming new regulation in R2025.

Program Educational Objectives:

The chair proposed the Program Educational Objectives to the board. The board reviewed Strategic Planning document of the Department and reviewed trends of the industry.

The stakeholders suggestions are is given below:

Evaluation Statement	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
PEOs are well-aligned with aeronautical & space industry demands	9	7	2	0	5
PEOs are measurable and achievable	6	10	2	0	5
PEOs reflect emerging global & national challenges	9	6	3	0	5
Program fosters innovation, ethics, and sustainability	9	7	2	1	4
Current PEOs align with institute's mission and vision	9	7	3	0	4
Statements fulfill futuristic graduate requirements (national & global development)	9	7	3	0	4

- 70–75% of responses are either Agree or Strongly Agree across all six PEO indicators.

- 20% of stakeholders (primarily students) strongly disagreed on most statements.

- Neutral responses (10%) were mainly from alumni, suggesting weak recall or unclear relevance.

- No 'Disagree' ratings were recorded; responses leaned toward extremes (Strongly Agree/Disagree).

- Faculty: Mostly positive, emphasizing alignment with mission and measurable outcomes.

- Industry Experts: Appreciate innovation, ethics, and sustainability focus.

- Students: Divided opinions; several critical of PEOs lacking focus on GATE and real-world preparation.

- Alumni: Mixed feedback, some rated all aspects neutral—needs engagement.

- - Lack of practical exposure and industrial integration in curriculum.

- - PEOs perceived as generic by a few respondents.

- - Students want clearer pathways for competitive exams

- - Limited visibility on interdisciplinary and soft skill development.

- Emphasis on ethics, sustainability, and global responsibility.

- Focus on leadership and continuous learning.

- Recognition of aeronautical engineering's national importance.

- Strong alignment with Vel Tech's institutional vision and mission.

1. Broaden PEO 3 to explicitly mention career roles beyond R&D (e.g., sales, operations, testing).

2. Strengthen PEO 2 to reflect preparation for certifications, and industry readiness.

3. Add a note on interdisciplinary knowledge (AI, computing, sustainability) in PEOs.

4. Use revised PEOs in induction, alumni engagement, and brochures to reduce 'neutral' disconnect.

MIT Aero Astro	Anna University	Georgia Tech	Vel Tech PEO	Benchmaring Inputs
Apply a deep working knowledge of technical fundamentals to solve engineering problems and address society's needs in aerospace and related areas for the nation and the world.	To employ comprehensive knowledge in Aeronautical Engineering and analytical skills to work towards solving complex problems to excel in the professional career	To provide comprehensive research and independent study opportunities that cultivate life long learning skills, nourish creative talents, and foster individual professionalism	Pursue higher education, research and development in aeronautical and allied domain	1. Aeronautical technical foundations, solve complex problems, requirements, life-long learning, global standard. 2. Interpersonal skills need for carrear & entreprunership 3. technical, leadership, other essential skills
Understand technical, business, societal, and other contexts; demonstrate a commitment to ethical action; and continue to strengthen technical, professional, and personal skills.	To assume global careers and leadership responsibilities through consistent learning with idealistic managerial practices.	To provide students with a comprehensive education that includes in-depth instruction in aerodynamics, aircraft and spacecraft structures, flight mechanics, orbital mechanics, propulsion and power, and design of aerospace systems.	Solve real world complex problems with social, ethical and business awareness.	need to grow in carrear, human values to work in team and understand needs, sustainable practices
Communicate and collaborate effectively as members of multidisciplinary teams, Lead in the conception, design, implementation, and operation of innovative technologies, products, processes, and systems in aerospace and related areas for the nation and the world	To design, analyze and produce cutting edge engineering solutions by employing modern techniques and adhering to moral values for sustainable development	To prepare students at all levels for careers in industry, government laboratories, and academia by emphasizing analysis and problem-solving through exposure to open-ended research challenges and engineering design issues.	Practice aeronautical engineering / chosen profession in industries and organizations	

Existing Vs Proposed

- Pursue higher education, research and development in aeronautical and allied domain
- Solve real world complex problems with social, ethical and business awareness.
- Practice aeronautical engineering / chosen profession in industries and organizations

- Pursue successful career in R&D Sector and Higher studies by practice applying aeronautical engineering technical foundations & critical thinking to solve complex problems and address society needs to contribute in national and global requirements
- Solve real world complex problems by analyzing technological, business, societal, ethical & sustainable practices in Aeronautical & related sectors and continue to improve in technical, professional, personal & management practices
- Practice successful profession in aeronautical & allied sector by demonstrating conception, design, implementation, operation, innovate technologies, leadership & team work, inclusiveness and communication skills to develop produces, process, and systems for the development of nation and globe.

Finalized PEOs :

B.Tech Aeronautical Engineering
Program Educational Objectives

After successful graduations, our graduates will

- Practice successful profession in aeronautical and allied sectors by demonstrating innovation, critical thinking, leadership, teamwork, and communication in the conception, design, development, and operation of technologies, products, and systems that address societal needs, while continuously learning and adapting to emerging technologies.

- Pursue successful careers and excel in higher studies by applying aeronautical engineering technologies, standards and critical thinking to solve complex problems and address societal needs at both national and global levels.

- Solve real-world problems by integrating technological, business, societal, ethical, and sustainable practices, while continuously improving their technical, professional, personal, and managerial competencies in emerging technologies.

2. Program Specific Outcomes:

The chair proposed the PSOs of the B.Tech. Aeronautical Engineering. Suggested to keep as bullet points. Members accepted without any modifications.
Finalized PSOs are
Program Specific Outcomes

PSO 1: Application of Emerging Technologies in Autonomous Systems:

- Design, develop, and integrate aerial vehicles with autonomous navigation, sensing, and control systems by applying aeronautical principles and advanced engineering tools;
- Solve real-world challenges in areas such as surveillance, logistics, and smart environments, while adhering to sustainable practices and ethical standards in the deployment of emerging technologies

PSO 2: Advanced Aerospace Systems Design and Integration:

- Analyse and solve complex engineering problems in aerospace and defense systems, including aerodynamics, propulsion, structural analysis, and stealth technologies.
- Solve problems in national defense requirements, system reliability, and mission-specific performance through compliance with applicable aerospace standards and ethical considerations.

PSO 3: Innovation and Product Realization for Aerospace Applications:

- Conceptualize, prototype, and validate aerospace components and systems using design thinking, simulation-driven engineering, and rapid prototyping methodologies.
- Drive innovation aligned with evolving industry and societal needs, while ensuring safety, sustainability, and professional responsibility in all phases of product development.

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2. B.Tech. Aeronautical Engineering Curriculum:

The chair proposed the curriculum & syllabus for B.Tech. Aeronautical Engineering to the board.

A. Feedback Analysis:

Stakeholder feedback from industry experts, academic experts, employers, alumni, students, and parents was collected regarding the Aeronautical Engineering curriculum at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology.

Industry Experts emphasized the need for practical skills in CAE/FEA tools (CATIA, Hypermesh, ANSYS, OpenFOAM), real-time rocket propulsion development, UAV manufacturing, certification processes, and integration of modern software like MATLAB, Python, and machine learning. They suggested reducing topic repetition and including core courses on materials, MEMS, composites, and fabrication.

Academic Experts highlighted the importance of programming skills (Python, MATLAB), laboratory exposure to hypersonics and autonomous UAV control, and inclusion of emerging topics such as satellite technology and machine learning for UAVs.

Employers requested better alignment of curriculum with industry tools and standards (ISO), more practical and internship opportunities, emphasis on system integration, and improved project management and communication skills.

Alumni called for more hands-on training on software tools, UAV manufacturing experience, and practical exposure to standards and project management.

Students reported the Aerodynamics and CFD syllabus is extensive with tough exams, and expressed the need for more practical sessions and balanced course timing.

Parents suggested inclusion of practical aircraft models and enhanced communication and leadership skill development.

Overall, the feedback advocates for enhanced practical training, integration of modern industry-relevant software and tools, focus on UAV technology and propulsion systems, improved soft skills, and optimized course structure to reduce redundancy and increase engagement.

The feedback analysis & review of aeronautical standards is given in **Annexure I.**

B. Standards

The standards related to Aeronautical Engineering is discussed in detail. The chair highlighted the benchmarking is considering stakeholders views as well as standards. The feedback analysis & review of standards is given in **Annexure I.**

C. Benchmarking of the Curriculum:

The domain coordinators and team presented the benchmarking of courses and its outcomes to the board. The harmony between course and program outcomes is explained by domain coordinators. The detailed benchmarking is given in **Annexure II.**

D. Proposed Curriculum & Feedback:

The chair proposed the curriculum to the board along with feedback received from stakeholders.

The following is the summary of feedback received on proposed curriculum.

- Total Respondents: 36+ (Academic Experts, Faculty, Students, Alumni, Employers, Industry Experts, Parents)
- Programs Evaluated: UG – B.Tech. Aeronautical Engineering & PG – M.Tech. Aeronautical Engineering (UAV)
- Evaluation Areas: Curriculum, Practical Skills, Industry Readiness, Digital Resources, Career Support

Key strength :
- Faculty Mentorship and Support rated Extremely High
- Curriculum alignment with academic standards and employability goals
- Positive feedback on library and digital resources
- Mentoring, career guidance, and examination system highly appreciated
- Consistent satisfaction from alumni and parents regarding student growth

Areas for improvement:
- Lab equipment and real-time application rated Moderate by some stakeholders
- Curriculum update needed for emerging technologies (AI, UAVs, Cybersecurity)
- Soft skill training and personality development programs to be enhanced
- Industrial training and project-based learning need more emphasis

The following are the corrections suggested by the committee

Program Core

General comments - Reduce theoretical load in selected core subjects to accommodate applied learning experiences. Increase hands-on, project-based learning opportunities in both core and elective subjects. Enable students to integrate AI, Data Science, Electronics, and Materials Engineering into aeronautics projects.

S No	Course Name	L	T	P	A	C	TH	Comments by Experts
1	Introduction to Dynamics	1	1	2	2	3	90	Add statics & Dynamics and modify outcomes. No prerequisite need
2	Aircraft Systems & Instruments	0	0	2	0	1	30	No change
3	Introduction to Aerospace Engineering	1	0	2	1	2	60	Change title as "Foundation of Aeronautics". No prerequisite need
4	Principle of Automatic Control	1	1	2	2	3	90	No change
5	Prototyping Avionics	1	0	2	1	2	60	No change
6	Flight Vehicle Performance and Stability Analysis	1	1	2	2	3	90	No change
7	Autonomous Flight Control Systems	1	0	2	1	2	60	Use Matlab, python and SCILAB
8	Solid Mechanics and Structural Behaviour	1	1	2	2	3	90	No prerequisite need
9	Advanced Structural Analysis	1	1	2	2	3	90	No change
10	Theory of Plates & Shells	1	1	2	2	3	90	No change
11	Finite Element Analysis	1	1	2	2	3	90	Use Ansys based tools. Expand structured training on tools such as OpenFOAM, Ansys,

								Comments
								XFLR5, MATLAB, Python, and other CFD/FEA platforms.
12	Materials Testing, Quality, and Manufacturing	1	0	2	1	2	60	No change
13	Aero Engineering Thermodynamics	1	2	2	3	4	120	No prerequisite need
14	Aircraft Propulsion	1	1	2	2	3	90	No change
15	Rocket and Space Propulsion	1	1	2	2	3	90	No change
16	Computational Heat Transfer	1	2	2	3	4	120	No change
17	Fluid Mechanics	1	1	2	2	3	90	No prerequisite need
18	Low Speed Aerodynamics	1	1	2	2	3	90	No change
19	Low Speed Aerodynamics	1	1	2	2	3	90	Typo – change to High speed AD
20	Computational Fluid Dynamics	1	1	2	2	3	90	Use Ansys based tools
21	Aircraft Design & Regulatory Standards	2	0	0	2	2	60	Introduce modules on aerospace certification standards (FAA, EASA, DGCA CAR, MIL-STDs) Cover regulatory frameworks for drones, space platforms, and defense applications.

Program Elective

Course Name	L	T	P	A	C	TH	Comments by Experts
Light Weight Structural Design	1	1	2	2	3	90	Map to any of the specialization
Private Pilot Ground School	1	0	4	1	3	90	Courses from NPTEL, EDX and Coursera can be recommended.
Rocket Motor Testing Lab	1	0	4	1	3	90	
Flight Vehicle Development	1	1	2	2	3	90	

Autonomous Drone Technology – 18 credits required

Course Name	L	T	P	A	C	TH	Comments by Experts
Lighter Than Air System	1	1	2	2	3	90	Keep 10 Electives in each category of specialization. Keep 21 credits for specialization.
Flapping Wing Dynamics	3	0	0	3	3	90	
Unmanned Systems	3	0	0	3	3	90	Autonomous Drone Technologies – Specific Feedback
Flight Testing	2	0	2	2	3	90	Rename & Focus: Replace the generic "Unmanned Systems" label with "Unmanned Aerial Systems (UAS)" to maintain aerospace-specific focus.
UAV Mapping & Monitoring	2	0	2	2	3	90	
Data Analysis & System Identification	2	0	2	2	3	90	1. Certification & Regulation · Add a UAS Certification Scheme module aligned with DGCA norms and global practices.

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						· Include drone laws, airspace usage rules, privacy, and compliance training. 2. UAV Propulsion Systems · Introduce a dedicated course on Electric Propulsion, Hydrogen Fuel Cells, Hybrid and Solar UAVs, and related performance modeling. 3. UAV Communication & Control Systems · Add in-depth modules on UAV telemetry, SATCOM, LTE control, redundancy protocols, and ground station communication. 4. AI Integration for Autonomous Operations · Offer electives on AI/ML in drone navigation, real-time decision-making, and autonomous mode switching.

Aerospace & Defence – 18 Credits required

Course Name	L	T	P	A	C	TH	Comments by Experts
Aerospace Sensors and Systems	2	0	2	2	3	90	Keep 10 Electives in each category of specialization. Keep 21 credits for specialization. Few courses may taught by DRDO, HAL, ISRO and Private Aerospace Firms Introduce eVTOL Technologies · Launch a subject on Electric VTOL Systems (Air Taxis, Air Ambulances) and urban air mobility design challenges. 2. Advanced Propulsion Systems · Include next-gen propulsion topics such as scramjets, ion propulsion, electric hybrid systems, and space launch innovations. 3. Artificial Intelligence in Aerospace · Create modules that explore AI in aerospace systems, including fault
Aerospace Structures and Materials	2	0	2	2	3	90	
Rocket Propulsion and Launch Systems	2	0	2	2	3	90	
Spacecraft Dynamics and Control	2	0	2	2	3	90	
Systems and warfare Platforms	3	0	0	3	3	90	
Test and Evaluation of weapon system	2	0	2	2	3	90	

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						detection, mission planning, and predictive maintenance.
						4. Holistic Defense Systems Requirements · Focus on military-grade system design, including ruggedization, EMI shielding, cybersecurity, and autonomous decision logic. **5. Courses by Industry Experts** · Implement 1–2 credit expert-led modules from professionals in aerospace R&D and defense industries with case studies and simulations.

Product Design & Development – 18 Credits

Course Name	L	T	P	A	C	TH	Comments by Experts
Design for Manufacturing and Assembly (DFMA)	2	0	2	2	3	90	Keep 10 Electives in each category of specialization. Keep 21 credits for specialization.
Computer-Aided Design (CAD) and Modelling	2	0	2	2	3	90	
Human Factors and Ergonomic Design	2	0	2	2	3	90	
Systems Engineering and Integration	2	0	2	2	3	90	
Rapid Prototyping and Additive Manufacturing	2	0	2	2	3	90	
Product Lifecycle Management (PLM)	2	0	2	2	3	90	

Internships and Capstone Requirements – 14 Credits

Course Name	L	T	P	A	C	TH	Comments by Experts
Industry Internship	0	0	4	0	2	60	
Community Service Project	0	0	2	0	1	30	
Aircraft Design Project 1	0	0	2	0	1	30	It shall be compulsory course – otherwise offer as compulsory elective
Aircraft Design Project 2	0	0	2	0	1	30	It shall be compulsory course – otherwise offer as compulsory elective
Capstone Project	0	0	18	0	9	270	

Industry/Higher Institute Learning (IHL) Requirement – 2 Credit

Course Name	L	T	P	A	C	TH	Comments by Experts
Special course by abroad expert	1	0	0	1	1	30	Add academic expert

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Special course by industry expert	1	0	0	1	1	30	

Skill Enhancement Requirement – 2 credit

Course Name	L	T	P	A	C	TH	Comments by Experts
Special Workshop on Design Engineering	0	0	2	0	1	30	Design & Analysis – Fluids & Structure
							Encourage certification-linked workshops or assessments to validate student tool proficiency.
Special Workshop on Analysis Tools	0	0	2	0	1	30	Digital Twin & AI/ML

Value Added Requirement – 2 credit

Course Code	Course Name	L	T	P	A	C	TH	Comments by Experts
AEValue1	Inclusive in Engineering	0	0	2	0	1	30	Offer as workshop – technical course
AEValue2	Sustainable Development Goals	0	0	2	0	1	30	Offer as workshop – technical course

Minor Degree on "GIS, Remote Sensing & UAS" – 18 Credits required

Course Name	L	T	P	A	C	TH	Comments by Experts
Introduction to Geographic Information Systems (GIS)	2	0	2	2	3	90	Change Minor Title as "Unmanned Aerial Systems or Drone Technology or Aerial Robotics and Remote Sensing"
Remote Sensing and Image Analysis	2	0	2	2	3	90	
Unmanned Aerial Systems (UAS) Fundamentals	2	0	2	2	3	90	
Aerial Photogrammetry and Mapping	2	0	2	2	3	90	
UAS-based Data Acquisition and Processing	3	0	0	3	3	90	
Remote Pilot Ground Classes	2	0	2	2	3	90	

Honours Degree on "Aerospace Engineering" – 18 Credits required

Course Name	L	T	P	A	C	TH	Comments by Experts
Advanced Aerodynamics	2	0	2	2	3	90	Change Title as "Aeronautical Engineering"
Aerospace Propulsion Systems	2	0	2	2	3	90	
Flight Dynamics and Control	2	0	2	2	3	90	
Spacecraft Systems Engineering	2	0	2	2	3	90	

Finite Element Methods in Aerospace Structures	3	0	0	3	3	90
Capstone Aerospace Design Project	0	0	4	2	3	90

Action:

The suggestions provided by the members have been duly incorporated and implemented in the B.Tech. Aeronautical Engineering curriculum and syllabus.

The Board has recommended the finalized curriculum and syllabus to the Academic Council for approval, as detailed in **Annexure – III.**

29.7 Introduction of Project Based Learning, Assessment procedures, and pedagogical Initiatives for B.Tech. - Aeronautical Engineering under upcoming new regulation in R2025.

The chair explained the status of PBL in VTR UGE 21 regulation. Members suggested to constitute the committee to scrutinize the project title and mapped with course outcomes and rubrics. No standard theory based / problem based shall be given. PBL assignment committee shall formed by Head to create, implement, monitor and evaluate the projects.

29.C   Items for Reporting

29.8 Details of Credit Transfer under MOOC, IPT & IHL category of courses

Credit Transfer Details are attached as **Annexure IV.**

Action : Members reviewed the credits transferred under various category of courses.

29.9 Budget Proposal 2025-26

The proposed budget is placed before the meeting for the member's information.

S.No	G Code	Description	Total	Re-appropriation	Total
		AERONAUTICAL ENGINEERING			
		Non - Recurring Expenses			
1	G06	Computer & Peripherals	3,00,000		3,00,000
2	G10	Science Equipment	11,25,000		11,25,000
		Sub-Total	**14,25,000**	0	**14,25,000**
		Recurring Expenses			
3	G15	Lab Expenses	7,35,000		7,35,000
4	G17	Events Organized	2,10,000		2,10,000

5	G18	Industry Relations Expenses	60,000		60,000
6	G20	Student Motivational Initiative	1,75,000		1,75,000
7	G24	Faculty Motivational Initiative	1,00,000		1,00,000
8	G25	Subscription Expenses	25,000		25,000
9	G40	Repairs & Maintenance	1,20,000		1,20,000
10	G63	Expert Remuneration	50,000		50,000
11	G70	International Relations Expenses	1,00,000		1,00,000
12	G27	General Academic Expenses	0		0
		Sub-Total	**15,75,000**	**0**	**15,75,000**
		Total	**30,00,000**	**0**	**30,00,000**

Action:

Members reviewed the Budget proposed by Department.

29.D   Items for Ratification, If any

29.10 Ratification of courses for for B.Tech. Aeronautical Engineering under VTR UGE 2021

and for M.Tech. Aeronautical Engineering under VTR PGE 2023.

The following IHL courses are ratified by the committee.

1. Multi-rotor UAV Technology

2. Introduction to NDT and Case Studies, 3rd to 5th Feb 2025

Resource Person: Professor of Pratice Mr. G. Madhusoodanan Nair, Assistant General Manager,

VCS Quality Services Pvt. Ltd., Mumbai – 400080

3. The following MOOC courses are ratified by the board.

MOOC NPTEL	10212AE406	Remote Sensing: Principles and Applications	3

Minutes of 29th Board of Studies, Aeronautical Engineering, Vel Tech.

MOOC Edx	10212AE407	Global Media, War, and Technology	3
NPTEL	10212AE410	Advanced Aircraft Control Systems with MATLAB/SIMULINK	3
MOOC Edx	10212AE402	Autonomous Mobile Robots	3
MOOC NPTEL	10212AE405	UAV in Engineering Applications	3
NPTEL	10212AE409	Lighter than Air Systems	3
MOOC Edx	10212AE401	Computational Thinking for Modeling and Simulation	3
NPTEL	10212AE408	Computational Science in Engineering	3
NPTEL	10212AE404	Software Engineering	3

Action:n The reported courses are ratified by the board.

29.E   Closing

28.11   Any other item with the permission of chair

No items discussed.

Vote of Thanks

The chairman proposed a vote of thanks to all the members for their valuable contributions and active participation in the meeting. Appreciation was extended to the Chairperson for effectively leading the discussions and guiding the decision-making process. The meeting concluded with gratitude to all attendees for their time and commitment.

Chairman – BOS Aero

MINUTES OF

28th BOARD OF STUDIES MEETING

on

25-01-2025

at

10.30AM

held in

Department Meeting Room

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL OF MECHANICAL AND CONSTRUCTION

MINUTES OF

28th BOARD OF STUDIES MEETING

on

25-01-2025

at

10.30AM

held in

Department Meeting Room

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL OF MECHANICAL AND CONSTRUCTION

VISION AND MISSION OF THE DEPARTMENT

Vision:

To impart knowledge and excellence in Civil Engineering with global perspectives to the student community and to make them ethically strong engineers to build the nation.

Mission:

M1: To produce Civil Engineers of high calibre with advanced technical skills and ethical values to serve the society and the nation.

M2: To make the department as a centre of excellence in the field of Civil Engineering and allied research activities.

M3: To provide knowledge base and consultancy services to the community in all areas of Civil Engineering

M4: To promote innovative ideas which original thinking in the minds of budding Engineers to face the future challenges.

PROGRAMME EDUCATIONAL OBJECTIVES OF THE DEPARTMENT

PEO1: Provide Engineering design solutions for the real world problems in Structures, Environmental, Geotechnical, Water Resources, Remote Sensing and Transportation Engineering.

PEO2: Succeed and excel in their chosen professional practice/research and pursue higher education in the field of Civil engineering in reputed Institutions in India/abroad

PEO3: Make ethical decisions and demonstrate a commitment to the profession and society.

PEO4: Acquire a position that values adaptability and innovation in their profession.

PEO5: Demonstrate leadership, both in their chosen profession and in other social responsibilities.

School of Mechanical and Construction
Department of Civil Engineering
28th Board of Studies Meeting of Civil Engineering
25th January 2025 @10.30 a.m.

Ref: -Civil/BoS -28/Agenda/2025

Agenda No.	**Agenda**

OPENING

27BoS01   To confirm the minutes of meeting of the 27th BoS, held on 22.06.2024

27BoS02   Action taken report on Minutes of 27th BoS meeting

27BoS03   To record leave of Absence of members

ITEMS FOR CONSIDERATION AND APPROVAL

27BoS04   Discussion on the Curriculum Structure for VTU 2025 for B.Tech. Civil Engineering

27BoS05   Discussion on the content of Programme Elective Course under section 7.2.3 on Building Information Modelling for the Winter Semester of AY 2024-2025.

ITEMS FOR DISCUSSION AND RATIFICATION

27BoS06   Value added Courses under section 7.2.9 of VTR UGE - 2021.

27BoS07   Students who completed NPTEL Exams in the Summer Semester 2024-25.

ITEMS FOR REPORTING AND RECORDING

27BoS08   Any other points

Attendance

Sl.No	Name	Designation	Remarks
1.	Dr. GEETHA SELVARANI. A.	Chairman –BoS, Professor &HOD/Civil	Attended
External Members			
2.	Dr. PALANISAMY. T.	Associate Professor, Department of Civil Engineering, National Institute of Technology Karnataka, Surathkal	Attended
3.	Er. SURESH KUMAR. L.	Assistant Engineer, Central Public Works Department.	Not Attended
Internal Members			
4.	Dr. SAMSON. S.	Professor	Attended
5.	Dr. ASWIN SIDHAARTH. K.R.	Professor	Attended
6.	Dr. VINODKUMAR. M.	Professor	Attended
7.	Dr. KANDASAMY. S.	Professor	Attended
8.	Dr. KUMAR. G.	Assoc. Professor	Attended
9.	Dr. LOGESHWARI. J.	Assoc. Professor	Attended
10.	Dr. TAMILARASAN. K.	Assoc. Professor	Attended
11.	Dr. SELVAKUMAR. S.	Asst. Professor	Attended
12.	Dr. SHANMUGAPRIYA. J.	Asst. Professor	Attended
Alumni			
13.	Mr. KUSHAL KUMAR	Alumni	Not Attended

SCHOOOL OF MECHANICAL AND CONSTRUCTION
DEPARTMENT OF CIVIL ENGINEERING

28th BOARD OF STUDIES MEETING

Summary

Venue: Department Meeting Room   **Date: 25-01-2025**

- BOS members have approved the action taken report on the minutes of 27th BOS Meeting, held on 22-06-2024.

- BOS Chairman presented the Proposed Curriculum Structure for B.Tech. Civil Engineering under "VTU 2025 Regulation". BOS Members have reviewed the Curriculum structure and Credit Split-up for each Course Category and specified the valuable suggestions and comments.

- BOS Chairman further pointed out the Proposed "List of Professional Core Courses (PCC)" under "VTU 2025 Regulation". BOS Members have reviewed the Curriculum Structure of PCC and their Credits for each Courses and stated the valuable recommendations and comments.

  Course Coordinator presented the Proposed Programme Elective Course for B.Tech. under section 7.2.3 of "VTR UGE - 2021" for the Winter Semester of AY 2024-2025 titled on "Building Information Modelling" syllabus associate with Industry Relations and approved by the Board members.

- Value added Courses under section 7.2.9 of VTR UGE - 2021 and MOOC courses recommended under Program Elective Category of section 7.2.3 were appreciated and approved by the Board members.

<u>**Minutes**</u>

Welcome Address: Chairman – BoS, welcomed the Special invitees and other members for the 28th BOS meeting.

<u>**Agenda 28.01**</u>	:	**Confirmation of the Minutes of Meeting of 27th BoS held on 22.06.2024.**
Discussion	:	Chairman – BoS, presented the minutes of the 27th BoS held on 22.06.2024.
Action	:	BoS members have approved the action taken report on the minutes of 27th BoS Meeting, held on 22.06.2024.

<u>**Agenda 28.02**</u>	:	**To review the Action Taken report on the Minutes of 27th BoS Meeting.**
Discussion	:	Chairman – BoS, highlighted the follow-up action taken on the suggestions given by the expert members. These are:

S.No	Points Discussed	Action Taken
1	A few modifications for the Programme Elective Courses Geopolymer Concrete and Special Concretes have been suggested by the Academic and Industrial Experts for M.Tech. Structural Engineering under VTR PGE 2023.	Suggested Modifications have been incorporated.
2	A few topics were suggested to be removed from the syllabus of Advanced Mathematics for M.Tech. Courses.	Suggested Topics were removed.

<u>**Agenda 28.03**</u>	:	**To record leave of absence of members.**
Discussion	:	Our external BOS member Er. SURESH KUMAR. L. and Alumni Mr. KUSHAL KUMAR was absent in view of personal constraint.
Action	:	The BoS members accepted and the same was recorded.
Action	:	BoS Members gone through the action taken report and approved the same.

		ITEMS FOR CONSIDERATION AND APPROVAL
<u>**Agenda 28.04**</u>	:	**Discussion on the Curriculum Structure for VTU 2025 for B.Tech. Civil Engineering**
Discussion	:	BOS Chairman presented the Proposed Curriculum Structure for B.Tech. Civil Engineering under "VTU 2025 Regulation". BOS Members have

reviewed the Curriculum structure and Credit Split-up for each Course Category and specified the valuable suggestions and comments.

Academic Expert: Dr. T. Palanisamy

i. Suggested to propose separate FME courses for first year civil engineering students based on departmental requirements.

ii. Suggested to offer more programme core courses in second year rather than programme elective courses.

iii. Suggested to offer programme elective form fourth semester or third year onwards.

iv. Advised to start capstone project from fifth semester onwards for meritorious students.

v. Suggested to remove capstone in major project.

vi. Advised to convert "Engineering Graphics" theory course as integrated course along with practical.

vii. Suggested to include list of Foundation Course such as Mathematics courses offering for lateral entry students.

In addition, the BOS Chairman presented the proposed the suggestion for specialization programme in B.Tech. Civil Engineering with Specialization in Smart Infrastructure and Artificial Intelligence.

Academic Expert: Dr. T. Palanisamy

BOS members advised to check the nomenclature of programme name with AICTE.

Refer: Annexure 1

Agenda 28.05	:	**Discussion on the Programme Elective Course on Building Information Modelling for B.Tech. under section 7.2.3 of VTR UGE - 2021 for the Winter Semester of AY 2024-2025.**
Discussion	:	BOS Chairman presented the Proposed Course Curriculum and Content for Programme Elective Course on Building Information Modelling.

Academic Expert: Dr. T. Palanisamy

BOS member appreciates the course content and approve the same.

Refer: Annexure 2

ITEMS FOR DISCUSSION AND RATIFICATION

Agenda 28.06 : **Value added Courses under section 7.2.9 of VTR UGE - 2021**

Discussion

: The Chairman – BOS presented the Courses offered Value added Courses under section 7.2.9 of VTR UGE - 2021.

List of Value-Added Courses

S.No.	No. OF DAYS	COURSE NAME	No. OF STUDENTS BENEFITTED
1	4	Advanced Structural Design & Detailing with Tekla Structures	32 (IV Year)
2	4	Land use Land Cover Mapping and its applications	22 (III Year)
3	4	Experimental learning on coordinate and elevation measurement by Electronic Total Station	22 (II Year)

Refer: Annexure 3

Action: : Members have noted and ratified.

Agenda 28.07 **Students who completed MOOC NPTEL Exams in the Summer Semester 2024-25.**

Discussion : The Chairman – BOS presented the students who completed MOOC NPTEL Exams in the Summer Semester 2024-25.

List of MOOC NPTEL Courses

S. No	Course Category	Course Code	Course Name	No. of Weeks	Recommended Credits
1	7.2.3	10212CE409	Geotechnical Earthquake Engineering	12	3
2	7.2.3	10212CE404	Geosynthetics and Reinforced Soil Structures	12	3
3	7.2.4	10213DS401	Introduction to Internet of Things	12	3
4	7.2.4	10213EN401	Public Speaking	12	3
5	7.2.4	10213EE404	Solar Energy Engineering and Technology	12	3
6	7.2.4	10213ME403	Sustainable Energy Technology	12	3

7	7.2.4	10213MG403	Project Management for Managers	12	3
8	7.2.4	10213EE402	Physics of Renewable Energy Systems	12	3
9	7.2.7.1	1156CE421	Sustainable Transportation Systems	12	2
10	7.2.4.1	20234CE401	Research Methodology	8	2
11	7.2.3	20233MG407	Entrepreneurship	12	3
12	7.2.3	20233MG405	Operations and Supply Chain Management	12	3
13	7.2.3	2163CE432	Municipal Solid Waste Management	12	2

Discussion   : Members have noted and ratified.

Refer: Annexure 4

ITEMS FOR REPORTING AND RECORDING

Agenda 28.08   :   **Any other Points**
Discussion   :   NIL
Action   :   NIL

Meeting ended with a Vote of thanks proposed by Dr. S. Samson, Professor, Department of Civil Engineering.

Submitted to Vice-Chancellor for approval

Dr. A. Geetha Selvarani – Chairman, BoS.

41st Board of Studies

10th May 2025, 10:00 a.m., CASA Lab

Minutes of Meeting

DEPARTMENT OF MECHANICAL ENGINEERING

SCHOOL OF MECHANICAL & CONSTRUCTION

School of Mechanical and Construction
Department of Mechanical Engineering

41ˢᵀ BOARD OF STUDIES

Date: 10-05-2025 (Saturday)   **Time: 10:00 A.M.**   **Venue: CASA Lab, Room No.2122**

AGENDA

ITEMS FOR CONFIRMATION

Agenda No.	Agenda
41.01	To confirm and approve the 40rd Board of Studies minutes of meeting held on 25ᵗʰ January 2025.
41.02	To Review the Action taken report on the 40ᵗʰ BoS meeting
41.03	To record the leave of absence of members.

ITEMS FOR DISCUSSION AND APPROVAL

41.04	B.Tech - VTRUGE 2025 regulations curriculum structure.
41.05	List of Ph.D. course work.
41.06	Summer semester (SS) course list for the academic year (AY) 2025-26.
41.07	Value-added courses for the AY 2025-26.
41.08	Self-learning courses (NPTEL/SWAYAM) course list for AY 2025-26.
41.09	Industry/Higher learning institute interaction courses AY 2025-26.

ITEMS FOR REPORTING

41.10	Interim feedback analysis of WS AY 2024-25.
41.11	Faculty and student accomplishments for CY 2025.

ANY OTHER POINTS

Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd u/s 3 of UGC Act, 1956)

School of Mechanical and Construction
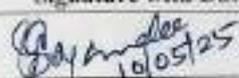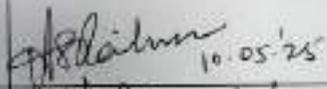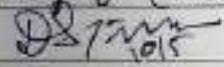### Department of Mechanical Engineering

41ˢᵗ Board of Studies Meeting

Date: 10ᵗʰ May 2025   Venue: CASA Lab (Room No 2122)   Time: 10.00 A.M

Attendance Sheet

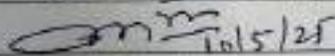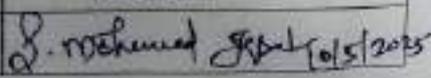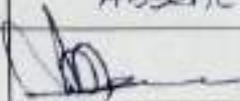| Sl. No.	Name of the BoS Member	Signature with Date
1.	Dr. Jayavelu.S, Chairman, Board of studies	*(signature)* 10/05/25
2.	Dr. G.L.Samuel, Professor, Manufacturing Engineering Section, Department of Mechanical Engineering IIT-Madras	online.
3.	Dr.M.Omkumar, Professor, Department of Manufacturing Engineering, Anna University.	*(signature)* 10/05/2025
4.	Mr. Ravikumar Samuthiram, Chief of R&I testing and validation, Iniciotek Pvt. Ltd.	*(signature)* 10.05.'25
5.	Dr.Dilip Raja.N, Professor	Dilip Raja (10/5/2025)
6.	Dr.Surrya Prakash. D, Professor	*(signature)* 10/5
7.	Dr.Venkatasudhakar.M, Professor	*(signature)*
8.	Dr.Babu.J.M, Professor	*(signature)* 10/5/25
9.	Dr.Amala Justus Selvam, Professor	*(signature)* 10/5/25
10.	Dr.Chandra Kumar.P, Professor	Absent
11.	Dr.Logesh.K, Professor	Absent
12.	Dr.Mohamed Iqbal.S, Professor	S. mohamed iqbal 10/5/2025

3

13.	Dr.Anand. P, Professor	Absent
14.	Dr.Ravichandran. A.T, Professor	
15.	Dr.Praveen. A.S, Professor	Absent
16.	Dr.Sivamurugan. P, Professor	
17.	Dr.Irudayaraj. S, Professor	
18.	Dr.Rajamani. D, Professor	
19.	Dr.Meikandan.M, Professor	
20.	Dr.Padmanaban.S, Professor	
21.	Dr.Sumathy Muniamuthu, Professor	
22.	Dr.Sathyaseelan.P, Associate Professor	
23.	Dr.Rathinasuriyan. C, Associate Professor	
24.	Dr.Balaji. V, Assistant Professor	
25.	Dr.Yogaraj. D, Assistant Professor	
26.	Alumni Representative	

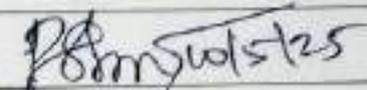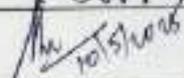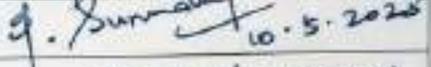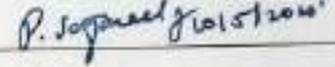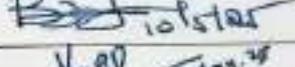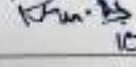**School of Mechanical and Construction**
Department of Mechanical Engineering

Minutes of 41ˢᵗ Board of Studies Meeting of Mechanical Engineering
10ᵗʰ May 2025 at 10.00 a.m. in CASA Laboratory

The Chairman welcomed all members and external experts to the 41st Board of Studies (BoS) meeting of the Department of Mechanical Engineering and expressed sincere appreciation for their continued support and valuable contributions to academic development.

He highlighted the importance of reviewing and updating the curriculum structure under the new VTRUGE 2025 regulations, ensuring it aligns with the National Education Policy (NEP) 2020 to promote flexibility, multidisciplinary learning, and academic innovation.

The Chairman outlined the key areas for discussion, including approval of the Ph.D. course work, summer semester offerings, semester long internships, value-added courses, self-learning (NPTEL/SWAYAM) courses, and industry-academia collaborative initiatives for the academic year 2025–26. He also noted the importance of reviewing feedback mechanisms and recognizing faculty and student achievements to drive continuous improvement.

Reaffirming the department's commitment to providing a future-ready and industry-relevant education, he invited all members to share their expert insights and constructive suggestions to guide the department's academic vision.

OPENING

41.01 **To confirm and approve the 40ᵗʰ Board of Studies minutes of meeting held on 25ᵗʰ January 2025.**

Discussion: The chairman –BoS briefed about the minutes of meeting of the 40ᵗʰ Board of Studies, held on 25ᵗʰ January 2025.

Action: The members noted and confirmed it.

41.02 Action taken report on Minutes of 40th BoS meeting

Discussion: The chairman –BoS presented the Action taken report on Minutes of 40th BoS meeting held on 25th January 2025.

S.No.	Agenda No.	Points Discussed	Action Taken
1.	40 BoS 01	To confirm the minutes of the 39th Board of Studies meeting, held on 22nd June 2024	Confirmed by the members of BoS
2.	40 BoS 02	To Review the Action taken report on the 39th BoS meeting	Reports were presented by the Chairman - BoS, and noted by the members.
3.	40 BoS 03	To record leave of Absence of member- Industry Expert - The leave of absence of internal members Dr. Surrya Prakash.D, Dr. Sivamurugan.P (Professors), Dr. Yogaraj.D (Assistant Professor), and the Alumni Representative Mr.Prabhu S	The member was absent for the 39th BoS meeting and the attendance has been recorded.
4.	40 BoS 04	To discuss the VTU 2025 Regulations - Curriculum structure for B.Tech Mechanical Engineering and energy resource management. Academic expert Dr. Om Kumar suggested separating Materials and Manufacturing into distinct domains instead of combining them. Regarding AI & ML electives, the Chairman of the BoS emphasized the importance of core technical courses while acknowledging that AI & ML could be introduced as electives to promote interdisciplinary learning and align with industry trends. Industry expert Mr.Ravikumar Samuthiram suggested the inclusion of Engineering Graphics (EG) for all freshman engineering students. Academic expert Dr. G.L. Samuel stressed the need to maintain consistency in the syllabus and structured content, emphasizing the inclusion of fundamental concepts to uphold the quality and coherence of the curriculum.	The Chairman ensured that the course contents would be revised as per the suggestions
5.	40 BoS 05	To discuss of courses recommended under Self Learning Courses (NPTEL/MOOC) for the winter semester 24-25	Approved NPTEL courses offered to the students

6.	40 BoS 06	Discussed the number of students awarded credits under IHL as per VTR_UGE2021 regulations (7.2.6.3)	Credits awarded to the students
7.	40 BoS 07	Discussed the number of students awarded credits under Project as per VTR_UGE2021 regulations (7.2.5.2)	Credits awarded to the students
8.	40 BoS 08	Presented the details of students participated in the Industrial visit and in-plant training	Noted by the members.
9.	40 BoS 09	Discussed the number of students awarded credits for independent learning - MOOC under Programme Elective Courses (7.2.3) and Open Elective Courses (7.2.4)	Credits awarded to the students

Resolution: The members have gone through the actions taken on the discussions and satisfied.

41.03   To record the leave of absence of members.

The Committee Resolved to record the leave of absence of the following members:

Dr. Chandra Kumar P., Professor

Dr. Logesh K., Professor

Dr. Anand P., Professor

Dr. Praveen A.S., Professor

41.04   **Discussion on the B.Tech. – VTRUGE 2025 regulations curriculum structure.**

Discussion: The **Chairman presented the proposed curriculum structure** for the **B.Tech. Mechanical Engineering program** under the **VTRUGE 2025 regulations**, spanning **Semesters 1 to 8**, for discussion and approval.

S.No.	Curriculum Component	Course Category	Total Credits
B.Tech. Curriculum - VTR UGE2025 Regulations		
	Curriculum Structure		
1	Basic Sciences	Foundation Courses	24
2	Basic Engineering		18
3	Humanities and Social Sciences		7
4	Programme Core	Programme Core	60
5	Programme Electives	Programme Electives	18
6	Multidisciplinary/Open Electives	Open Electives	9
7	Project(s)	Independent Learning (CSP/Minor Project/Internship/Major Project)	12
8	Internships		2
9	Project Work, Seminar and Internship in Industry or Appropriate Work Place/ Academic and Research Institutions in India//Aboard	Industry/Higher Institute Learning (IHL)	2
10	Any other (Please specify)	Ability Enhancement Courses (AEC)	4
		Skill Enhancement Courses (SEC)	4
		Value Added Courses (VAC)	4
11	Mandatory Non-CGPA Courses – Audit Course	Mandatory Courses	0
		Total	**164**

Curriculum for Freshman Engineering (FME) Students - R 2025 (Foundation Courses - 49 Cr.)

Sem.	Course Category	Course Name	Credit	L	T	P	SL	Hours/Week	Notional Cr. Hours
Semester 1	*Humanity & Social Science Course - 1*	Professional Communication - I	2	1	0	2	15	3	60
	Skill Enhancement Course - 1 (FC)	Conceive Design Implement Operate (CDIO)	2	0	0	4	0	4	60
	Basic Sciences Course - 1	Engineering Maths - I (Based on Schools)	4	3	0/1	2/0	45/60	4	120
	Basic Sciences Course - 2 (T)	Physics Theory	3	3	0	0	45	3	90
	Basic Sciences Course - 3 (P)	Physics Lab	1	0	0	2	0	2	30
	Basic Engineering Course - 1 (T)	Problem Solving using C	3	3	0	0	45	3	90
	Basic Engineering Course - 2 (P)	Problem Solving using C Lab	1	0	0	2	0	2	30
	Basic Science Course - 4 (SDG - 6/11)	Environmental Studies	2	2	0	0	30	2	60
	Basic Engineering Course - 3 (T+P)	Basic Electrical and Electronics	3	2	0	2	30	4	90
	Value Added Course - 1	Indian Knowledge System	1	1	0	0	15	1	30
		Total	**22**					**28**	**660**

Sem.	Course Category	Course Name	Credit	L	T	P	SL	Hours/Week	Notional Cr. Hours
Semester 2	*Humanity & Social Science Course - 2*	Professional Communication - II	2	1	0	2	15	3	60
	Basic Engineering Course - 4	Design Thinking	2	1	0	2	15	3	60
	Basic Sciences Course - 5	Engineering Maths - II (Based on Schools)	4	3	0/1	2/0	45/60	4	120
	Basic Sciences Course - 6	Chemistry Theory	3	3	0	0	45	3	90
	Basic Sciences Course - 7	Chemistry Lab	1	0	0	2	0	2	30
	Basic Engineering Course - 5	Python Programming	3	3	0	0	45	3	90
	Basic Engineering Course - 6	Python Programming Lab	1	0	0	2	0	2	30
	Basic Engineering Course - 8 (SDG - 6/11)	Renewable Energy Sources	2	2	0	0	30	2	60
	Basic Engineering Course - 7 (T+P)	Engineering Graphics and Computer Crafting	3	1	0	4	15	5	90
	Value Added Course - 2	Constitution of India	1	1	0	0	15	1	30
		Total	**22**					**28**	**660**

	Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Semester 3	Basic Sciences	Transforms Partial Differential Equations	3	3	0	0	45	3	90
	Programme Core	Engineering Mechanics	3	3	0	0	45	3	90
	Programme Core	Engineering Materials and Metallurgy	3	3	0	0	45	3	90
	Programme Core	Engineering Thermodynamics	3	2	0	2	30	4	90
	Programme Core	Fluid Mechanics and Machineries	3	2	0	2	30	4	90
	Programme Core	Manufacturing Technology	3	2	0	2	30	4	90
	Programme Elective	Program Elective 1	3	3	0	0	45	3	90
	Ability Enhancement Courses (AEC)	AEC 1 (Placement)	1	1	0	0	15	1	30
	Industry/Higher Institute Learning (IHL)	IHL 1 (Industry/International)	1	0	0	0	15	1	30
	Total		**23**					**26**	**690**

L – Lecture; T-Tutorial; P-Practical; SL- Self-Learning

	Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Semester 4	Basic Sciences	Numerical Methods	3	3	0	0	45	3	90
	Programme Core	Strength of Materials	3	2	0	2	30	4	90
	Programme Core	Thermal Engineering	3	2	0	2	30	4	90
	Programme Core	Machining and Machine Tools Technology	3	2	0	2	30	4	90
	Programme Core	Soft Computing for Mechanical Engineers	3	3	0	0	45	3	90
	Programme Elective	Program Elective 2(NPTEL)	3	3	0	0	45	3	90
	Open Elective	Open Elective 1 (NPTEL)	3	3	0	0	45	3	90
	Ability Enhancement Courses (AEC)	AEC 2 (Placement)	1	0	0	0	15	1	30
	Value Added Courses (VAC)	VAC 3 (Modelling Lab)	1	0	0	2	0	2	30
	Total		**23**					**27**	**690**

L – Lecture; T-Tutorial; P-Practical; SL- Self-Learning

Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Programme Core	Theory of Machines	3	3	0	0	45	3	90
Programme Core	Measurement and Control Systems	3	2	0	2	30	4	90
Programme Core	Heat and Mass Transfer	3	2	0	2	30	4	90
Programme Core	Machine Learning for Mechanical Engineers	3	3	0	0	45	3	90
Programme Core	Advanced Design and Manufacturing Process/ Non-Destructive Testing and Sustainable Development	3	3	0	0	45	3	90
Programme Elective	Program Elective 3 (NPTEL)	3	3	0	0	45	3	90
Open Elective	Open Elective 2 (NPTEL)	3	3	0	0	45	3	90
Independent Learning	Community Service Project	1	0	0	2	0	2	30
Ability Enhancement Courses (AEC)	AEC 3 (Placement)	1	1	0	0	15	1	30
Skill Enhancement Courses (SEC)	SEC 2 (PLM Software)	2	0	0	4	0	4	60
Total		**25**					**28**	**720**

Semester 5

L – Lecture; T-Tutorial; P-Practical; SL- Self-Learning

	Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Semester 6* / *** Semester Long Internship (Program Elective -3 credits + IL -2 credits + IHL – 1 Credit A total of 7 credits in the Semester Long Internships)**	Programme Core	Machine Design	3	3	0	0	45	3	90
	Programme Core	Additive Manufacturing	3	3	0	0	45	3	90
	Programme Core	Thermal Management	3	3	0	0	45	3	90
	Programme Core	Industry 5.0	3	3	0	0	45	3	90
	Programme Elective	Program Elective 4 *	3	3	0	0	45	3	90
	Programme Elective	Program Elective 5	3	3	0	0	45	3	90
	Independent Learning	Internship *	2	0	0	4	0	4	60
	Ability Enhancement Courses (AEC)	AEC 4 (Placement)	1	1	0	0	15	1	30
	Industry/Higher Institute Learning (IHL)	IHL 2 (Industry/International) *	1	1	0	0	15	1	30
	Humanity and Social Science Course-3	Universal Human Values	3	3	0	0	45	3	90
	Total		**25**					**27**	**660**

L – Lecture; T-Tutorial; P-Practical; SL- Self-Learning

* Semester Long Internship (Program Elective -3 credits + IL -2 credits + IHL – 1

Credit A total of 7 credits in the Semester Long Internships)

	Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Semester 7	Programme Core	Finite Element Analysis	3	3	0	0	45	3	90
	Programme Core	Process Planning and Cost Estimation	3	3	0	0	45	3	90
	Programme Elective	Program Elective 6	3	3	0	0	45	3	90
	Open Elective	Open Elective 3	3	3	0	0	45	3	90
	Independent Learning	Minor Project	2	0	0	4	0	4	60
	Value Added Courses (VAC)	VAC 4 (Ansys Lab)	1	0	0	2	0	2	30
		Total	**15**					**18**	**450**

L – Lecture; T-Tutorial; P-Practical; SL- Self-Learning

	Course Category	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
Semester 8	Independent Learning	Major Project	9	0	0	18	0	18	270
		Total	**9**					**18**	**270**

Proposal for Semester Long Internship (SLI) For the AY 2025-26, for 2023-27 Batch students (Second Year)

VTR UGE 2021 Regulations Curriculum
(for semester-long Internship opted students)

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	43	3	3	5		2	0
Programme Core (PC)		18	14	10	10	6	0
Programme Elective (PE)		3	3	9	3	3	0
Open Elective (OE)			3	3		3	0
Independent Learning (IL)			1	2	2		9
Industry/Higher Institute Learning Interaction (IHL)					1	1	0
Professional Proficiency Courses (PPC		1	1	1		1	0
Total	43	25	25	30	16	16	9

Foundation Courses (FC)	56
Programme Core (PC)	58
Programme Elective (PE)	18
Open Elective (OE)	12
Independent Learning (IL)	14
Industry/Higher Institute Learning Interaction (IHL)	2
Professional Proficiency Courses (PPC)	4
Total Credits	164

Proposed Semester Plan

III Semester			IV Semester		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Transformation and Partial Differential Equation	FC	3	Numerical Methods	FC	3
Engineering Mechanics	PC	4	Theory of Machines	PC	4
Manufacturing Technology	PC	4	Strength of Materials	PC	4
Engineering Thermodynamics	PC	3	Machining and Machine Tools Technology	PC	4
Fluid Mechanics and Machinery	PC	4	Applied Engineering Thermodynamics	PC	3
Materials and Metallurgy	PC	3	Computer Aided Design and Drafting	PC	1
Open Elective 1	PC	3	Community Service Project	IL	1
Soft Skills – I	PPC	1	Program Elective 1 (NPTEL)	PE	3
			Soft Skills – II	PPC	1
			IHL	IL	1
Total Credits		**25**	**Total Credits**		**25**

Proposed Semester Plan

V Semester			VI Semester (Intensive)		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Machine Design	PC	3	Finite Element Analysis	PC	3
Heat And Mass Transfer	PC	4	Thermal Engineering	PC	4
Measurements And Control	PC	3	Soft Computing for Mech. Engg.	PC	3
Mechatronics	PC	4	Programme Elective 4 (Semester-long Internship)	PE	3
Programme Elective 2	PE	3	Open Elective 3	OE	3
Programme Elective 3 (NPTEL)	PE	3	Minor Project – II (Semester-long Internship)	IL	2
Open Elective 2	OE	3			
Minor Project – I	IL	2			
Aptitude Skills – I	PPC	1			
FC	FC	3			
IHL / In-plant Training	IHL	1			
Total Credits		**30**	**Total Credits**		**16**

Proposed Semester Plan

VII Semester			VIII Semester		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Programme Elective 5	PE	3	Major Project		9
Programme Elective 6	PE	3			
Open Elective 4	OE	3			
Aptitude Skills – II	PPC	1			
FC	FC	2			
IHL	IHL	1			
FC	FC	2			
Total Credits		**15**	**Total Credits**		**9**

Proposal for Semester Long Internship (SLI) For the AY 2025-26, for 2023-27 Batch students (Third Year)

VTR UGE 2021 Regulations Curriculum
(for semester-long Internship opted students)

Course Category	1ˢᵗ Yr	3ʳᵈ Sem	4ᵗʰ Sem	5ᵗʰ Sem	6ᵗʰ Sem	7ᵗʰ Sem	8ᵗʰ Sem
Foundation Course (FC)	43	3	3	3		4	0
Programme Core (PC)		18	16	10	10	3	0
Programme Elective (PE)			3	6	3	6	0
Open Elective (OE)		3		3	3	3	0
Independent Learning (IL)			1	2	3		9
Industry/Higher Institute Learning Interaction (IHL)					1	1	0
Professional Proficiency Courses (PPC)		1	1	1		1	0
Total	43	25	25	30	16	15	9

Foundation Courses (FC)	56
Programme Core (PC)	58
Programme Elective (PE)	18
Open Elective (OE)	12
Independent Learning (IL)	14
Industry/Higher Institute Learning Interaction (IHL)	2
Professional Proficiency Courses (PPC)	4
Total Credits	164

Proposed Semester Plan

III Semester			IV Semester		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Transformation and Partial Differential Equation	FC	3	Numerical Methods	FC	3
Engineering Mechanics	PC	4	Theory of Machines	PC	4
Manufacturing Technology	PC	4	Strength of Materials	PC	4
Engineering Thermodynamics	PC	3	Machining and Machine Tools Technology	PC	4
Fluid Mechanics and Machinery	PC	4	Applied Engineering Thermodynamics	PC	3
Materials and Metallurgy	PC	3	Computer Aided Design and Drafting	PC	1
Open Elective 1	OE	3	Community Service Project	IL	1
Soft Skills – I	PPC	1	Program Elective 1 (NPTEL)	PE	3
			Soft Skills – II	PPC	1
			IHL	IL	1
Total Credits		**25**	**Total Credits**		**25**

Proposed Semester Plan

V Semester			VI Semester (Intensive)		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Machine Design	PC	3	Finite Element Analysis	PC	3
Heat And Mass Transfer	PC	4	Thermal Engineering	PC	4
Measurements And Control	PC	3	Soft Computing for Mech. Engg.	PC	3
Mechatronics	PC	4	Programme Elective 4 (Semester-long Internship)	PE	3
Programme Elective 2	PE	3	Open Elective 3	OE	3
Programme Elective 3 (NPTEL)	PE	3	Minor Project – II (Semester-long Internship)	IL	2
Open Elective 2	OE	3			
Minor Project – I	IL	2			
Aptitude Skills – I	PPC	1			
FC	FC	3			
IHL / In-plant Training	IHL	1			
Total Credits		**30**	**Total Credits**		**16**

Proposed Semester Plan

VII Semester			VIII Semester		
Course Name	**Course Category**	**Credit**	**Course Name**	**Course Category**	**Credit**
Programme Elective 5	PE	3	Major Project		9
Programme Elective 6	PE	3			
Open Elective 4	OE	3			
Aptitude Skills – II	PPC	1			
FC	FC	2			
IHL	IHL	1			
FC	FC	2			
Total Credits		**15**	**Total Credits**		**9**

The Chairman highlighted the integration of foundational and core courses, electives, value-added/self-learning components, and project-based learning, in alignment with the National Education Policy (NEP) 2020. A key highlight was the proposal for Semester-Long Internships (SLI) to be implemented during the second and third years of the program. This initiative is designed to enhance industry readiness, provide real-world exposure, and strengthen the link between academic learning and professional practice. The proposal was well received by all members.

Dr. Om Kumar, External Academic Expert, suggested renaming the CDIO course to a more engaging title such as "Maker's Space" or "End and End Product Lab" to reflect its practical, innovation-oriented nature. The Board agreed to consider the renaming, and it was decided that the final title will be confirmed after consultation with the first-year course handling faculty.

Dr. M. Venkatasudhahar was assigned responsibility for coordinating and finalizing the course name.

Resolution:

The Board approved the proposed curriculum structure for the B.Tech. Mechanical Engineering program with the recommended revisions, including the implementation of semester-long internships during the second and third years and the pending renaming of the CDIO course.

41.05   **Discussion on the list of Ph.D. Course work courses.**

Discussion: The Chairman presented the list of Ph.D. course work courses offered by the Department of Mechanical Engineering.

Sl. No.	Code	Course	L	T	P	C
		Programme Elective				
1	40211ME101	Advanced Fluid Mechanics	3	0	0	3
2	40211ME102	Failure Analysis of Engineering Components	3	0	0	3
3	40211ME103	Measurements in Thermal Engineering	3	0	0	3
4	40211ME104	Mechanical Behaviour of Materials	3	0	0	3
5	40211ME105	Material Characterization	3	0	0	3
6	40211ME106	High Temperature Materials	3	0	0	3
7	40211ME107	Polymers and Composite Materials	3	0	0	3
8	40211ME108	Advanced Additive Manufacturing	3	0	0	3
9	40211ME109	Industrial Safety, Health and Environmental Acts	3	0	0	3
10	40211ME110	Physical Metallurgy of alloys	3	0	0	3
11	40211ME111	Powder Metallurgy	3	0	0	3
12	40211ME112	Selection of Materials for Design	3	0	0	3
13	40211ME113	Sustainable Design	3	0	0	3

During the discussion, it was highlighted that sharing the same course codes for both PG and Ph.D. courses has been causing confusion during examinations, particularly due to the difference in evaluation schemes—PG courses being evaluated for 60 marks, and Ph.D. courses for 100 marks.

To address this issue, a new course code format for Ph.D. courses starting with 40211ME*** was proposed. The members acknowledged and appreciated this initiative to maintain clarity and proper academic distinction.

Resolution: The Board reviewed and noted the list of proposed Ph.D. courses with the updated course codes.

41.06   Discussion on the summer semester (SS) course list for the academic year (AY) 2025-26.

The Chairman presented the list of courses proposed for the Summer Semester (SS) for AY 2025–26, including core mathematics Courses and foundation-level courses handled by the Department of Mechanical Engineering.

LIST OF MATHEMATICS COURSES OFFERED FOR MECHANICAL ENGINEERING STUDENTS

Semester	Name of the Course
1st Semester	MATRICES AND CALCULUS
2nd Semester	PROBABILITY AND STATISTICS
3rd Semester	TRANSFORMS AND PARTIAL DIFFERENTIAL EQUATIONS
4th Semester	NUMERICAL METHODS

LIST OF COURSES OFFERED FOR FIRST YEAR BY MECHANICAL ENGINEERING DEPARTMENT

Semester	Name of the Course
1st Semester	CONCEIVE DESIGN IMPLEMENT OPERATE (CDIO) or END AND END PRODUCT LAB or MAKER'S SPACE
2nd Semester	DESIGN THINKING
2nd Semester	ENGINEERING GRAPHICS AND COMPUTER DRAFTING

41.07   **Value-added courses for the AY 2025-26.**

The Chairman presented the list of **proposed value-added courses** to be offered by the Department of Mechanical Engineering for AY 2025–26. These courses aim to enhance student skillsets beyond the regular curriculum and improve industry readiness.

The proposed courses focus on areas such as:

- 3D Printing and Additive Manufacturing
- Product Design Using SolidWorks/Creo
- Python Programming for Engineers
- Electric Vehicles and Battery Technology
- Industrial Automation using PLC/SCADA
- Ansys and Simulation Tools for Mechanical Analysis
- Product Life Cycle Software

Members appreciated the industry-oriented approach and encouraged including hands-on workshops and certification opportunities. It was also suggested to periodically review and update the list of value-added courses based on evolving industry trends and student feedback.

Resolution:
The Board approved the proposed value-added courses for AY 2025–26 and recommended continuous industry interaction to refine course content.

41.08   **Discussion on Self-learning courses (NPTEL/SWAYAM) course list for AY 2025-26.**

The Chairman presented the proposed list of NPTEL/SWAYAM self-learning courses for the July December 2025 session, primarily focusing on 12-week courses relevant to Mechanical Engineering and interdisciplinary skill development.

B.Tech Mechanical Specialized in Artificial intelligence (AI) and robotics		
Sl. No.	Name of the course	Course Duration
1.	noc25-me04-Advanced Robotics	12 Weeks
2.	noc25-me70-Robotics: Basics and Selected Advanced Concepts	12 Weeks
3.	noc25-me69-Robotics and Control : Theory and Practice	8 Weeks
4.	noc25-me84-Wheeled Mobile Robots	8 Weeks
5.	noc25-me85-Advanced Robotics Applications	8 Weeks

6.	noc25-me86-Collaborative Robots (COBOTS): Theory and Practice	8 Weeks
7.	noc25-ge35-Experimental Robotics	4 Weeks
8.	noc25-ee89-Intelligent Control of Robotic Systems	4 Weeks

B.Tech Mechanical Specialized in Mechatronics

Sl. No.	Name of the course	Course Duration
1	noc25-me38-Industrial Hydraulics and Automation	12 Weeks
2	noc25-ee42-Industrial Automation and Control	12 Weeks

B.Tech Mechanical Specialized in Energy Management

Sl. No.	Name of the course	Course Duration
1	noc23-ge41 -Solar Energy Engineering And Technology	12 Weeks
2	noc23-me122-Energy Conservation And Waste Heat Recovery	12 Weeks
3	noc23-me138 -Sustainable Energy Technology	12 Weeks

B.Tech Mechanical Engineering

Sl. No.	Name of the course	Course Duration
1.	noc25-me11 Computer Integrated Manufacturing	12 Weeks
2.	noc25-me32 Fundamentals Of Nuclear Power Generation	12 Weeks
3.	noc25-me33 Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	12 Weeks
4.	noc25-me38 Industrial Hydraulics and Automation	12 Weeks
5.	noc25-me43 Introduction To Mechanical Micro Machining	12 Weeks
6.	noc25-me47 Machinery Fault Diagnosis And Signal Processing	12 Weeks
7.	noc25-me56 Noise Management & Control	12 Weeks
8.	noc25-me58 Oil Hydraulics and Pneumatics	12 Weeks
9.	noc25-me62 Power Plant System Engineering	12 Weeks
10	noc25-me64 Principles of Industrial Engineering	12 Weeks
11	noc25-me67 Product Design and Manufacturing	12 Weeks
12	noc25-mm01 Advanced Manufacturing and Process Modelling	12 Weeks
13	noc25-ge24 Non-conventional energy Resources	12 Weeks

Resolution: The Board approved the proposed list of 12-week NPTEL/SWAYAM courses for the July–December 2025 semester and recommended it.

41.09 **Industry/Higher learning institute interaction courses AY 2025-26.**

The Chairman initiated a discussion on Industry and Higher Learning Institute (HLI) interaction courses for the academic year 2025–26. While the list of specific courses is yet to be finalized, the Board explored tentative areas of expertise to be covered through collaborations with industry professionals and faculty from reputed institutions.

The following tentative domains were suggested for expert-led interaction:

- Industry 4.0 and Smart Manufacturing
- Advanced Welding and Non-Destructive Testing (NDT)
- Robotics and Industrial Automation
- Sustainable Product Design
- Data Analytics for Mechanical Engineers

Resolution:

The Board took note of the discussion and advised the department to finalize the course list in coordination with industry/HLI partners. Dr. D.Surrya Prakash may be designated to consolidate expert areas and coordinate future planning.

ITEMS FOR REPORTING

41.10   Interim feedback analysis of WS AY 2024-25.

The Chairman presented a summary of the interim student feedback collected during the Winter

Semester (AY 2024–25). The analysis focused on teaching effectiveness, course delivery, and areas

for improvement across theory and lab components.

Feedback Analysis of the Faculty Based on Student Feedback on WS24 25
Course-Wise Feedback Summary:

Course	Strengths	Areas for Improvement
Thermodynamics	Excellent clarity in fundamental laws; strong conceptual teaching	More numerical problem walkthroughs during lectures
IC Engines	Real-world examples; clear explanation of cycles and components	Use of animated visuals to enhance understanding
Refrigeration & A/C	Solid explanation of processes and diagrams	More interactive demos or lab involvement
Fluid Mechanics	Strong explanation of theoretical flow concepts	Visual demonstrations/models needed for abstract concepts
Heat Transfer	Clear breakdown of modes of heat transfer	Application-based examples and industrial relevance requested
Machine Design	Well-structured notes; effective in design process explanations	Use of CAD software or mechanical models for better engagement
Manufacturing Processes	Good process flow explanation; strong theoretical base	Inclusion of factory case studies or shop-floor examples

Overall Student Perception:

Parameter	Average Rating (out of 5)
Subject Knowledge	4.7
Clarity of Explanation	4.5
Responsiveness to Questions	4.3
Use of Teaching Aids	3.8
Engagement in Class	4.2
Practical Relevance	3.9

Common Student Comments:
- *"Explains core concepts really well. Notes are concise and helpful."*
- *"Would have more real-world case studies and hands-on sessions."*
- *"Sometimes fast-paced in complex topics – could slow down slightly."*

Resolution:

The Board appreciated the feedback review and advised faculty members to address the suggestions in

upcoming semesters to enhance teaching-learning effectiveness.

41.11   Faculty and student accomplishments for CY 2025

The Chairman highlighted notable faculty and student achievements for the Calendar Year 2025, reflecting the department's continued focus on academic excellence, innovation, and industry engagement.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology Signs MoU with Ashok Leyland

On April 30, 2025, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology signed a Memorandum of Understanding (MoU) with Ashok Leyland. This strategic partnership aims to foster collaboration in the areas of training, consultancy, and academic initiatives.

The MoU is expected to significantly enhance industry-academic engagement, providing students with valuable exposure to real-world practices and contributing to their overall professional development.

ISUZU-Sponsored Automobile Engine Laboratory Inaugurated at Vel Tech

The Department of Mechanical Engineering at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology inaugurated the **ISUZU-Sponsored Automobile Engine Laboratory** on **March 27, 2025**.Established under the Corporate Social Responsibility (CSR) initiative of **Isuzu Motors India Pvt. Ltd.**, the lab is designed to strengthen hands-on learning in the field of automotive engineering.The inauguration ceremony was graced by **Mrs. Indhu S** and **Mr. Shivir Kumar Shukla** from Isuzu, who expressed their continued support for academic-industry collaboration.

ANY OTHER POINTS

The Chairman brought to attention the option of utilizing **NPTEL Plus courses** for **M.Tech scholars with pending credits**, as part of academic credit recovery and enrichment.

The following **12-week NPTEL Plus courses** were proposed for approval:

- **Organizational Behaviour**
- **Plastic Waste Management**
- **Introduction to Research**

These courses were chosen for their relevance to postgraduate learning objectives and interdisciplinary applicability.

Resolution:
The Board agreed with the proposal and recommended verifying course availability and academic mapping before approval. The department was advised to communicate the course registration process to eligible M.Tech scholars.

Dr. S. Jayavelu, Professor & Head of Mechanical Engineering and Chairman of the BoS, thanked all the members for their valuable contributions during the meeting. He expressed his appreciation for the insightful discussions and suggestions aimed at improving the department's curriculum, fostering industry collaborations, and enhancing student learning experiences. The Chairman emphasized the importance of continuous feedback and collaboration to maintain the department's commitment to excellence.

The meeting was adjourned with a note of thanks to all attendees for their participation and support in achieving the department's goals.

10-May-2025

Dr. S. Jayavelu
Chairman of the BoS
Professor & Head of Mechanical Engineering

Minutes of the 14th meeting

of

Board of Studies

DEPARTMENT OF BIOMEDICAL ENGINEERING

Date: 08/05/2025

Time: 10:00 AM

Venue: 1522

Vision and Mission of the Department of Biomedical Engineering

<u>**Vision**</u>

  To be recognized as an excellent centre in Biomedical Engineering for imparting quality technical education that leads to transformative advancements in healthcare industries.

<u>**Mission**</u>

M1: To infuse **critical thinking skills** by providing a strong foundation that enables the students for continuing education

M2: To create an ambience of academic excellence with **state-of-the-art** laboratories to compete globally

M3: To establish a **dynamic research environment** that integrates advanced healthcare technologies for innovation and progress

The Programme Educational Objectives (PEOs) of the Department of Biomedical Engineering are as follows:

PEO1: Exhibit proficiency in **designing and analyzing** healthcare solutions to cater to the needs of the medical industry and societal needs

PEO2: Demonstrate professional **networking** in a diverse team setting and **collaborate** among peers with ethical practices in the workplace, ensuring integrity

PEO3: Reinforce **lifelong learning** practices for professional advancement not limited to higher studies and research.

School of Electrical and Communication

DEPARTMENT OF BIOMEDICAL ENGINEERING

Minutes of Meeting for 14th BoS

Date: 08/05/2025

Time: 10:00 AM

Venue: Room No. 1522

AGENDA

Item for Confirmation
14.01 To confirm the MoM of the 13th BoS held on 27/12/24
14.02 To ratify the NPTEL open elective course offered for VTR UGE 2021
Items for Discussion
14.03 To review the Action Taken Report on the minutes of the 13th Board of Studies held on 27/12/2024
14.04 Discussion of R25 curriculum framework for the UG program to be offered from the Academic Year (AY) 2025 – 2026
14.05 Syllabi discussion for the UG program core to be offered in the AY 2025 - 2026 under VTR UGE 2025
14.06 List of the possible Value-Added Courses (VAC) to be offered for VTRUGE 2025
Items for Reporting
14.07 Student performance and placement details during the AY 2024 - 2025
14.08 Industrial Visits (IV) undertaken by the students during the AY 2024 – 2025
Any other items
14.09 Completion of course from program elective category, (2021-2025 Batch students) from the regular curriculum instead of MOOC under VTR UGE 2021 regulation.

The 14th BoS meeting for the Department of Bio-Medical Engineering was held on 08th May 2025 with external, internal BoS members and department faculty. The meeting started with the dissemination of vision and mission to the BoS members by the Chairman BoS and Head of the Department Dr. D. Balasubramaniam. Dr. Deepa presented the agendas, followed by a discussion of the respective agendas.

ITEM FOR CONFIRMATION

Agenda 14.01: To confirm the MoM of the 13th BoS held on 27/12/24

Discussion: The follow-up action taken on the suggestions given by the expert members for 13th BoS was presented

Action Taken: The members recommended the same.

Agenda 14.02: To ratify the NPTEL open elective course offered for VTR UGE 2021

Discussion: The following NPTEL course under the open elective course has been presented and discussed

S. No.	Course Code	Category	Course Name	Credit
1	10213BM404	Open Elective	Strength & Conditioning for Indian Population	3

Action Taken: The members recommended the same.

ITEMS FOR DISCUSSION

Agenda 14.03: To review the Action Taken Report on the minutes of the 13th Board of Studies held on 27/12/2024
Discussion: The follow-up action taken on the suggestions given by the expert members for 13th BoS was presented

Action Taken: The members recommended the same.

Agenda 14.04: Discussion of R25 curriculum framework for the UG program to be offered from the Academic Year (AY) 2025 – 2026
Discussion: The curriculum framework of R25 was discussed along with the proposed courses to be offered for VTR UGE 2025.

B.Tech. Curriculum - VTR UGE 2025 Regulations			
Curriculum Structure			
S. No.	**Curriculum Component**	**Course Category**	**Total Credits**
1	Basic Sciences	Foundation Courses	24
2	Basic Engineering		18
3	Humanities and Social Sciences		7
4	Programme Core	Programme Core	58
5	Programme Electives	Programme Electives	21
6	Multidisciplinary/Open Electives	Open Electives	9
7	Project(s)	Independent Learning (CSP/Minor Project/Internship/Major Project)	12
8	Internships		2
9	Project Work, Seminar and Internship in Industry or Appropriate Work Place/ Academic and Research Institutions in India//Aboard	Industry/Higher Institute Learning (IHL)	2
10	Any other (Please specify)	Ability Enhancement Courses (AEC)	4
		Skill Enhancement Courses (SEC)	4
		Value Added Courses (VAC)	4
11	Mandatory Non-CGPA Courses – Audit Course	Mandatory Courses	0
		Total	**165**

List of the courses

Foundation Courses of VTR UGE 2025

S. No	Course Name	Credit	L	T	P	SL	Hours/ Week	Notional Cr. Hours
1	Professional Communication – I	2	1	0	2	15	3	60
2	Engineering Maths - I (Based on Schools)	4	3	0/1	2/0	45/60	4	120
3	Physics Theory	3	3	0	0	45	3	90
4	Physics Lab	1	0	0	2	0	2	30
5	Problem Solving using C	3	3	0	0	45	3	90
6	Problem Solving using C Lab	1	0	0	2	0	2	30
7	Environmental Studies	2	2	0	0	30	2	60
8	Basic Electrical and Electronics	3	2	0	2	30	4	90
9	Professional Communication – II	2	1	0	2	15	3	60
10	Design Thinking	2	1	0	2	15	3	60
11	Engineering Maths - II (Based on Schools)	4	3	0/1	2/0	45/60	4	120
12	Chemistry Theory/ Biochemistry (Biomedical)	3	3	0	0	45	3	90
13	Chemistry Lab	1	0	0	2	0	2	30
14	Python Programming	3	3	0	0	45	3	90
15	Python Programming Lab	1	0	0	2	0	2	30
16	Renewable Energy Sources	2	2	0	0	30	2	60
17	Engineering Graphics and Design	3	2	0	2	30	4	90
18	Fourier Series and Transform Techniques	3	3	0	0	45	3	90
19	Statistics and Numerical Methods	3	3	0	0	45	3	90
20	Universal Human Values	3	3	0	0	45	3	90
	Total	49						

Program Core Courses of VTR UGE 2025 (58 credits)

	Program Core Theory Courses							
1	Human Anatomy and Physiology	3	3	0	0	45	3	90
2	Analog and Digital Electronics	3	2	1	0	45	3	90
3	Electric Circuit Analysis	3	2	1	0	45	3	90
4	Biomaterials	3	3	0	0	45	3	90
5	Engineering Mechanics	3	2	1	0	45	3	90
6	Biomedical Sensors and Measurements	3	3	0	0	45	3	90
7	Control System in Medicine	3	2	1	0	45	3	90
8	Processor and Controller Architectures	3	2	1	0	45	3	90
9	Fundamentals of Digital Signal Processing	3	2	1	0	45	3	90
10	Medical Instrumentation	3	3	0	0	45	3	90
11	Diagnostic and Therapeutic Equipment	3	3	0	0	45	3	90
12	Medical Imaging Systems	3	3	0	0	45	3	90

Program Core Integrated Courses

13	Applications of Pathology and Microbiology	3	2	0	2	30	4	90
14	Neural Networks	3	2	0	2	30	4	90
15	Image Processing and DICOM Standards	3	2	0	2	30	4	90
16	Brain Computer Interfacing systems	3	2	0	2	30	4	90
17	Biomechanics and Kinesiology	3	2	0	2	30	4	90

Laboratory Courses

18	Biochemistry and Physiology Laboratory	1	0	0	2	0	2	30
19	Analog and Digital Electronics Laboratory	1	0	0	2	0	2	30
20	Biomedical Sensors and Measurement Laboratory	1	0	0	2	0	2	30
21	Processor and Controller Architectures Laboratory	1	0	0	2	0	2	30
22	Digital Signal Processing Laboratory	1	0	0	2	0	2	30
23	Medical Instrumentation Laboratory	1	0	0	2	0	2	30
24	Diagnostic and Therapeutic Equipment Laboratory	1	0	0	2	0	2	30
	Total Credits	58						

Program Electives Courses of VTR UGE 2025 (21 credits)

	Stream: Advanced Healthcare devices							
1	BioMEMS	3	3	0	0	45	3	90
2	Human Assist Devices	3	3	0	0	45	3	90
3	Robotics in Medicine	3	3	0	0	45	3	90
4	Rehabilitation Engineering	3	3	0	0	45	3	90
5	Haptics	3	3	0	0	45	3	90
6	Medical Optics	3	3	0	0	45	3	90
	Stream: Medical Devices and Healthcare Management							
1	Hospital Management System (AR)	3	3	0	0	45	3	90
2	Medical Device regulations	3	3	0	0	45	3	90
3	Clinical Engineering	3	3	0	0	45	3	90
4	Medical Waste Management	3	3	0	0	45	3	90
5	Medical Device Design	3	3	0	0	45	3	90
	Stream: Advanced Healthcare devices							
1	Principles of Communication Systems	3	3	0	0	45	3	90
2	Internet of Medical things	3	2	0	2	30	4	90
3	Wearable devices	3	3	0	0	45	3	90
4	Body Area Network	3	3	0	0	45	3	90
5	Telehealth Technology	3	3	0	0	45	3	90
6	Introduction to AI and ML	3	3	0	0	45	3	90

B. Tech Biomedical - Specialization in AI in Healthcare Technology

1	Introduction to Machine Learning	4	3	1	0	60	4	120
2	Deep Learning Fundamentals	4	3	0	2	60	5	120
3	Programming Essentials in Python	2	1	0	2	15	3	60
4	Introduction to Computer Vision	4	3	0	2	60	5	120
5	GPU Architecture and Programming	4	3	0	2	60	5	120

Action Taken: The members recommended the curriculum.

Agenda 14.05: Syllabi discussion for the UG program core to be offered in the AY 2025 - 2026 under VTR UGE 2025

Discussion: The content of the courses to be offered for VTR UGE 2025 in the 3rd and 4th Semester were discussed

S. No.	Course Name	Discussion
1	Human Anatomy and Physiology	Recommended
2	Analog and Digital Electronics	Recommended
3	Electric Circuit Analysis	Suggested to include magnetic circuits
4	Biomaterials	Suggested to include one unit of Tissue Engineering
5	Engineering Mechanics	Recommended
6	Biomedical Sensors and Measurements	Recommended
7	Control system in Medicine	Recommended
8	Processor and Controller Architectures	Recommended
9	Application of Pathology and Microbiology	Suggested to include 2 units- Pathology, 2 units – Microbiology and 1 unit of applications
10	Neural Networks	Recommended
11	Biochemistry and Physiology Laboratory	Suggested to include blood glucose monitoring experiments
12	Analog and Digital Electronics Laboratory	Recommended
13	Biomedical Sensors and Measurement Laboratory	Recommended
14	Processor and Controller Architectures Laboratory	Recommended
15	Medical Optics	Suggested to include retinal stimulator, LINAC, Positron Emission Tomography (PET) for therapeutic
16	Principles of Communication Systems	Recommended
17	Programming Essentials in Python	Suggested to make it a Laboratory course

Action Taken: The given suggestions have been incorporated.

Agenda 14.06: List of the possible Value-Added Courses (VAC) to be offered for VTRUGE 2025

Discussion: The following list of possible value-added courses has been presented

S. No.	Course Name	Discussion

1	PCB Design	Recommended
2	LabVIEW for Biomedical Instrumentation	Recommended
3	Simulink for Physiological System Modeling	Recommended

Action Taken: The members recommended the above courses and suggested adding another course, **Industry 5.2 for Medical Applications,** as a VAC.

ITEMS FOR REPORTING

Agenda 14.07: Student performance and placement details during the AY 2024 – 2025

Discussion: Students achievements in Winter Semester of AY 2024–25 and placement details for final years have been presented

Action Taken: The members recommended and recorded

Agenda 14.08: Industrial Visits (IV) undertaken by the students during the AY 2024 – 2025

Discussion: The third-year and second-year students completed one-day hospital visit at Sudar Hospital, Velachery Tamil Nadu, on 26/02/2025 and at Bloom Life hospital on 21/02/2025 respectively.

Action Taken: The members recommended and recorded

ANY OTHER ITEMS

Agenda 14.09: Completion of course from program elective category, (2021-2025 Batch students) from the regular curriculum instead of MOOC under VTR UGE 2021 regulation.

Discussion: 2021-2025 batch students have completed all the courses under program/specialization electives from the existing department curriculum, instead of MOOC, which was also discussed. The mapping of the course, Introduction to Machine Learning, has been done with the NPTEL course. In addition, as the MOOC for the upcoming semester under VTR UGE 2021 was not confirmed, we have requested the member to get the approval through email for the courses to be offered in the upcoming semester for various categories, once the list of courses by NPTEL is received.

Action Taken: The members recorded the same and recommended it for approval

Dr. D. Balasubramaniam
BoS Chairman

**Minutes of the 14th meeting
of
Board of Studies**

DEPARTMENT OF BIOTECHNOLOGY

Date : 12/05/2025

Time : 10:30 AM

Venue : Department Seminar Hall - 3212

VISION & MISSION OF THE UNIVERSITY

Vision:

- To create, translate and disseminate frontiers of knowledge embedded with creativity and innovation for a positive transformation of emerging society.

Mission:

To nurture excellence in teaching, learning, creativity and research; translate knowledge into practice; foster multidisciplinary research across science, medicine, engineering, technology and humanities; incubate entrepreneurship; instill integrity and honor; inculcate scholarly leadership towards global competence and growth beyond self in a serene, inclusive and free academic environment.

VISION & MISSION OF THE DEPARTMENT

Vision

- To adopt viable strategies to address global socioeconomic challenges in Biotechnology.

Mission

M1:   To educate and nurture socially responsible Biotechnologists who can tackle global challenges.

M2:   To build vital state of the art research facilities that impart core skills to student and faculty.

M3:   To Promote Entrepreneurship and startups.

M4:   To collaborate with world class organizations to enhance the knowledge in Industrial and Research activities.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. Have a strong foundation in Biotechnology in order to gain competence towards active Research and Industrial career opportunities.

2. Have a thorough practical and problem-solving skills towards sustainable developmental goals.

3. Have confidence in technical communication skills with an extensive knowledge on sustained career advancement.

PROGRAM OUTCOMES (POs)

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

3. **Design/development of solution**s: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

1. Apply knowledge and analytical abilities in Biotechnology to solve the real-world problems.

2. Develop and implement biotechnology and allied biological sciences to meet the industrial demands and social needs.

3. Impart sustainable practices in environmental and biosafety principles.

AGENDA

Date: 12/05/2025

Time: 10:30 AM

Venue: Department Seminar Hall

14 BoS 01 To confirm the Minutes of Meeting of the 13th Board of Studies, which was held on 14/02/2025

14 BoS 02 To Review the Action Taken report on the Minutes of 13th BoS Meeting

14 BoS 03 To record the leave of absence of members

ITEMS FOR CONSIDERATION AND APPROVAL

14 BoS 04 List of courses offering for the AY SS 2025-26

14 BoS 05 Discussion on NEP 2020 based Curriculum and syllabus structure (VTR UGE 2025)

14 BoS 06 Syllabus revision and discussion of the course, 10212BT104 - Agricultural Biotechnology from VTR UGE 2021 regulations

14 BoS 07 Discussion on the addition of new courses for PhD course work with different domain and research expertise.

14 BoS 08 Discussion on the list of courses offering from NPTEL platform for Program elective, Open elective and Honors courses for the AY SS 2025-26.

14 BoS 09 Discussion on the Value-added/ IHL/ Industrial courses offering for the summer semester AY SS 2025-26

14 BoS 10 Discussion on offering Biology for Engineers course as Mandatory course for first year students under VTR UGE 2025.

14 BoS 11 Discussion on the introduction of New research Program MS by Research in Biotechnology.

ITEMS FOR REPORTING

14 BoS 12 Students/ Faculty achievements

14 BoS 13 Results of Previous semester

ANY OTHER ITEMS

14 BoS 14 Completion of the course from program elective category, (2021-2025 Batch students). The similar course "Nutraceuticals" has been offered instead of NPTEL course (Functional Food and Nutraceuticals) under VTR UGE 2021 regulation.

Minutes of Meeting for 14th BoS

OPENING CALL TO ORDER

The 14th BoS meeting for B. Tech for the Department of Biotechnology was held on 12th May 2025 with Chairman, Faculty members, Academic Expert (Dr. M. Sukumar), Industry Expert in Online (Dr. Shankar Subramaniam) and Miss. Nithya Shree (Alumni).

Welcome Address: Chairman – BOS (Dr. P. Azhagu Saravana Babu), welcomed the BOS members, Special invitees and other members for the 14th BOS meeting.

The Chairman called for the meeting to order and welcomed the members and invitees.

Dr. P. Azhagu Saravana Babu presented the agenda, followed by a discussion of the respective agendas.

14 BoS 01 To confirm the Minutes of Meeting of the 13th Board of Studies, which was held on 14/02/2025

Discussion : Chairman – BOS, presented the minutes of the 14th Board of Studies held on 14/02/2025.

Action : The members confirmed the minutes of the 13th BOS meeting.

- BoS members have approved the action taken report on the minutes of 12th BoS meeting held on 26/06/2024.

- Curriculum Revision - Syllabus discussion: Requested to Modify the syllabus of Stem Cell Technology (10212BT118), Herbal and Phytochemical Engineering (10212BT125), Food Safety, Quality and Regulation (10212BT135), Biomechanics (10212BT139).

- NPTEL courses are proposed for approval Biomedical Instrumentation & Sensors, Algorithms in Computational Biology and Sequence Analysis, Certificate course in Environmental Sustainability, Data Analysis for Biologists, I Think Biology

- Industrial /Higher Learning courses offered for the Summer Semester of AY 2024-2025 were approved by the Board members.

14 BoS 02 To Review the Action Taken report on the Minutes of 13th BoS Meeting

Discussion	:	Chairman – BoS, highlighted the follow-up action taken on the suggestions given by the expert members.
		Comments : A few modifications for the Programme Core and Elective Courses have been suggested by the Academic and Industrial Experts for B. Tech Biotechnology.
Action Taken	:	Suggested Modifications have been incorporated.

14 BoS 03 To record the leave of absence of members

Minutes of Meeting of the 13th Board of Studies meeting was confirmed and ratified by all the members.

Action	:	The BoS members accepted and the same was recorded.

ITEMS FOR CONSIDERATION AND APPROVAL

14 BoS 04 List of courses offering for the AY SS 2025-26

Discussion	:	The Chairman – BoS listed the Program core and Program elective courses to be offered by department, for the upcoming summer semester for the Academic Year: 2025-26

Action	:	Members accepted and recommended the different courses and their corresponding credits for the upcoming semester.

S. No	Year	Course Code	Course Title
1.	UG	10211BT113	Metabolic Engineering
2.	UG	10211BT109	Advanced Biochemistry
3.	UG	10211BT117	Plant & Animal Biotechnology
4.	UG	10211BT114	Green Biotechnology and pollution Abetment
5.	UG	10213BT105	Engineering advances in food preservation
6.	UG	10211BT108	Principles of Chemical Engineering
7.	UG	10212BT137	Instrumentation and Process Control (Honors)
8.	UG	10212BT131	Principles of functional food and application
9.	UG	10212BT117	Biopharmaceutical Technology
10.	UG	10212BT140	Bio nanotechnology (HONORS)
11.	UG	10211BT101	Microbiology
12.	UG	10212BT141	Biochemical Engineering
13.	UG	10211BT305	Bioprocess Engineering Lab
14.	UG	10211BT302	Biochemistry Lab
15.	UG	10211BT301	Microbiology Lab
16.	UG	10211BT303	Cell Biology lab
17.	UG	10211BT113	Metabolic Engineering
18.	UG	10211BT109	Advanced Biochemistry
19.	UG	10211BT117	Plant & Animal Biotechnology
20.	UG	10211BT114	Green Biotechnology and pollution Abetment
21.	UG	10213BT105	Engineering advances in food preservation
22.	PG	20231BT301	Microbiology Lab
23.	PG	20231BT101	Biochemistry

24.	PG	20231BT102	Cell and Molecular Biology
25.	PG	20231BT103	Introduction to Engineering principles
26.	PG	20231BT104	Microbiology
27.	PG	20231BT105	Plant & Animal Cell culture Technology
28.	PG	20231BT112	Bioprocess Equipment design and Economics
29.	PG	20231BT113	Bio entrepreneurship
30.	PG	20231BT114	Instrumentation and Process Control
31.	PG	20231BT115	Research Methodology and Scientific Communication Skills
32.	PG	20231BT116	Intellectual Property Rights
33.	PG	20231BT301	Biochemistry lab
34.	PG	20231BT305	Downstream Processing Lab
35.	PG	20232BT104	Enzyme Engineering & Technology
36.	PG	20232BT108	Nano biotechnology

14 BoS 05 : Discussion on NEP 2020 based Curriculum and syllabus structure

   (VTR UGE 2025)

Discussion : The Board discussed the revised undergraduate curriculum structure for the Biotechnology program as per the guidelines of the National Education Policy (NEP) 2020 and the VTR UGE 2025 framework. The proposed curriculum emphasizes interdisciplinary learning, skill development, research orientation, and flexibility in course choices to enhance employability and academic rigor.

(List is give below)

Action : Members accepted and recommended the new courses and their corresponding credits.

S.No.	Curriculum Component	Course Category	Total Credits
B.Tech. Curriculum - VTR UGE2025 Regulations			
Curriculum Structure			
1	Basic Sciences	Foundation Courses	24
2	Basic Engineering		18
3	Humanities and Social Sciences		7
4	Programme Core	Programme Core	58
5	Programme Electives	Programme Electives	21
6	Multidisciplinary/Open Electives	Open Electives	9
7	Project(s)	Independent Learning (CSP/Minor Project/Internship/Major Project)	12
8	Internships		2
9	Project Work, Seminar and Internship in Industry or Appropriate Work Place/ Academic and Research Institutions in India//Aboard	Industry/Higher Institute Learning (IHL)	2
10	Any other (Please specify)	Ability Enhancement Courses (AEC)	4
		Skill Enhancement Courses (SEC)	4
		Value Added Courses (VAC)	4
11	Mandatory Non-CGPA Courses – Audit Course	Mandatory Courses	0
Total			**165**

Program Core (58 Credits)

S.No.	Course Name	Credits	L	T	P	SL	Hours/

14th Board of Studies Minutes
Department of Biotechnology, School of Electrical and Communication, 12th May 2025

							Week	Notional Credit Hours
THEORY								
1.	Microbiology	3	3	0	0	45	3	90
2.	Biochemistry	3	3	0	0	45	3	90
3.	Genetic Engineering	3	3	0	0	45	3	90
4.	Chemical Process Calculation	3	3	0	0	45	3	90
5.	Plant and Animal Cell Culture Technology	3	3	0	0	45	3	90
6.	Enyme Kinetics and Application	3	3	0	0	45	3	90
7.	Fluid Mechanics and Heat Transfer Operations	3	3	0	0	45	3	90
8.	Bioprocess Engineering	3	3	0	0	45	3	90
9.	Mass Transfer Operations in Biological System	3	3	0	0	45	3	90
10.	Industrial Biotechnology for Sustainable Production	3	3	0	0	45	3	90
11.	Instrumentation and Analytical Techniques	3	3	0	0	45	3	90
12.	Chemical Reaction Engineering	3	3	0	0	45	3	90
13.	Bioseparation Technology	3	3	0	0	45	3	90
14.	Bioethics, Biosafety & IPR Regulations	2	2	0	0	30	2	60
INTEGRATED COURSE								
15.	Cell and Molecular Biology	4	2	0	2	60	4	120
16.	Bioinformatics	4	2	0	2	60	4	120
17.	Immunology	4	2	0	2	60	4	120
LABORATORY COURSE								
18.	Microbiology Laboratory	1	0	0	2	30	2	60
19.	Biochemistry Laboratory	1	0	0	2	30	2	60
20.	Genetic Engineering Laboratory	1	0	0	2	30	2	60
21.	Bioprocess Engineering Laboratory	1	0	0	2	30	2	60
22.	Bio separation Technology Laboratory	1	0	0	2	30	2	60

Program Elective (21 credits)

11

S.No.	Course Name	Credits	L	T	P	SL	Hours/ Week	Notional Credit Hours
Regenerative Medicine Domain								
1.	Biopharmaceutical Technology	3	3	0	0	45	3	90
2.	Stem Cell Technology and Tissue Engineering	3	3	0	0	45	3	90
3.	Disease Management and Diagnostics	3	3	0	0	45	3	90
4.	Drug Discovery and Clinical Trials	3	3	0	0	45	3	90
5.	Pharmacokinetics and Pharmacodynamics	3	3	0	0	45	3	90
6.	Molecular Medicine	3	3	0	0	45	3	90
7.	Signalling Mechanism in Cancer Biology	3	3	0	0	45	3	90
Food Biotechnology & Precision Agriculture Domain								
8	Food Process Engineering	3	3	0	0	45	3	90
9.	Food Packaging Technology	3	3	0	0	45	3	90
10.	Food Safety and Quality	3	3	0	0	45	3	90
11.	Nutraceuticals	3	3	0	0	45	3	90
12.	Precision Agriculture	3	3	0	0	45	3	90
13.	Smart Farming and Irrigation	3	3	0	0	45	3	90
14.	Fundamentals and Production of Horticulture Crops	3	3	0	0	45	3	90
Industrial Biotechnology Domain								
15	Bioimaging	3	3	0	0	45	3	90
16	Nanobiotechnology	3	3	0	0	45	3	90
17	Forensic Biotechnology	3	3	0	0	45	3	90
18	Environmental Biotechnology	3	3	0	0	45	3	90
19	Biomass Conversion and Utilization	3	3	0	0	45	3	90
20	Bioenergy and Biofuel Technology	3	3	0	0	45	3	90
21	Metabolic Engineering	3	3	0	0	45	3	90
22	Synthetic Biology	3	3	0	0	45	3	90
23	Algal Biotechnology	3	3	0	0	45	3	90
24	Human Anatomy and Physiology	3	3	0	0	45	3	90
25	Biomaterials and 3D printing	3	3	0	0	45	3	90

26	AI and ML Applications in Biotechnology	3	3	0	0	45	3	90
27	Systems Biology	3	3	0	0	45	3	90
28	Drug Design and Discovery	3	3	0	0	45	3	90
29	Bioreactor Analysis	3	3	0	0	45	3	90

S.No.	Course Name	Credits	L	T	P	SL	Hours/ Week	Notional Credit Hours
B.Tech - Biotechnology Specialization in Regenerative Medicine								
1.	Biopharmaceutical Technology	3	3	0	0	45	3	90
2.	Stem Cell Technology and Tissue Engineering	3	3	0	0	45	3	90
3.	Disease Management and Diagnostics	3	3	0	0	45	3	90
4.	Drug Discovery and Clinical Trials	3	3	0	0	45	3	90
5.	Pharmacokinetics and Pharmacodynamics	3	3	0	0	45	3	90
6.	Molecular Medicine	3	3	0	0	45	3	90
7.	Signalling Mechanism in Cancer Biology	3	3	0	0	45	3	90
B.Tech - Biotechnology Specialization in Food & Precision Agriculture								
1.	Food Process Engineering	3	3	0	0	45	3	90
2.	Food Packaging Technology	3	3	0	0	45	3	90
3.	Food Safety and Quality	3	3	0	0	45	3	90
4.	Nutraceuticals	3	3	0	0	45	3	90
5.	Precision Agriculture	3	3	0	0	45	3	90
6.	Smart Farming and Irrigation	3	3	0	0	45	3	90
7.	Fundamentals and Production of Horticulture Crops	3	3	0	0	45	3	90
B.Tech. Biotechnology with Honors								
1.	Modeling and Simulation in Biotechnology	3	3	0	0	45	3	90
2.	Optimization tools in Bioprocess Engineering	3	3	0	0	45	3	90
3.	Bioprocess instrumentation and Control	3	3	0	0	45	3	90
4.	Bioreactor Operations	3	3	0	0	45	3	90
5.	CRISPR-Cas9 Gene Editing	3	3	0	0	45	3	90

6.	Genome analysis using R programing	3	3	0	0	45	3	90
Open Elective Courses								
1	Data Science Applications in Biotechnology	3	3	0	0	45	3	90
2	Engineering Advances in Food Preservation	3	3	0	0	45	3	90
3	Biosensors	3	3	0	0	45	3	90
4	Biomechanics	3	3	0	0	45	3	90
5	Bioremediation	3	3	0	0	45	3	90
6	Biochips and Microarrays	3	3	0	0	45	3	90
7	AI Applications in Biotechnology	3	3	0	0	45	3	90
8	Bio fabrication and 3D Bioprinting	3	3	0	0	45	3	90
Minor Degree in Biotechnology								
1.	Data Science Applications in Biotechnology	3	3	0	0	45	3	90
2.	Biosensors	3	3	0	0	45	3	90
3.	Biomechanics	3	3	0	0	45	3	90
4.	Biochips and Microarrays	3	3	0	0	45	3	90
5.	AI Applications in Biotechnology	3	3	0	0	45	3	90
6.	Bio fabrication and 3D Bioprinting	3	3	0	0	45	3	90

14 BoS 06 Syllabus revision and discussion of the course 10212BT104 - Agricultural Biotechnology **of VTR UGE 2021**

Department of Biotechnology, School of Electrical and Communication, 12th May 2025

Discussion	:	The Board discussed the existing curriculum and proposed few modifications to 10212BT104 - Agricultural Biotechnology

- Deletion of some repeated topics from unit I and II - Agricultural Applications of Genetic Engineering, and Techniques for the addition of genes into plant cells.

Action	:	Members accepted modifications in the syllabus and recommended the revised syllabus.

Revised Syllabus

UNIT I	INTRODUCTION	9 hours

Basic concepts of Agriculture, Role of Genetic engineering for increasing crop productivity. Shoot - tip - cultures, shoot - tip - grafting, viricidal compound, Somatic hybridization : Protoplast isolation, culture and fusion, selection of hybrid cells and regeneration of hybrid plants. Introducing genes into pro-and eukaryotes using gene transfer methods, DNA mediated and Agrobacterium mediated transfers, microinjection, and electroporation.

UNIT II	GENETIC ENGINEERING TECHNOLOGIES IN AGRICULTURE	9 hours

Ti plasmid and vectors, Transgenic plants, Gene cloning, Restriction Fragment Length Polymorphisms, Transposons, and Insertional mutagenesis. Molecular Farming: Plants As factories for biopharmaceuticals, Transgenic value-added specialty crops, Use of antisense RNA and other technologies, developing stress tolerant varieties, vaccine and antibody producing plants. Terminator technology, Introduction of male sterility through genetic engineering. Genetic engineering in improving nitrogen fixation in plants.

UNIT III	BIOFERTILIZERS AND ORGANIC FARMING	9 hours

Biofertilizer: Mass cultivation of microbial inoculants, green manuring, algalization, Azolla. Microbial products and plant health: PGPR (plant growth promoting Rhizobacteria), significance of mycorrhizae, toxin producing microbes (antibiotics, aflatoxin, and others), microbial herbicides, Organic Farming: Introduction and sustainable use of natural and bioresources, Organic standards and certification of organic produce and products, Biological control, Global initiatives and future prospects.

UNIT IV	BIODIVERSITY AND ENVIRONMENTAL PRESERVATION	9 hours

Preservation of rare plant species germplasm collection and conservation, Soil Reclamation: Phytoremediation

UNIT V	ISSUES IN AGRICULTURE AND FOOD SECURITY	9 hours

World Food Security: Causes of food insecurity, social economic issues, ensuring food security, BIS regulations, GM food, GM Crops – Ethical challenges.

14 BoS 07 Discussion on addition of new courses for PhD course work

Discussion   :   Based on the request from various external RAC members, various courses have been included with different research domain which emphasis on the enhancement of research, scientific writing, novel approach, and advanced technologies will undoubtedly improve the quality of research output.

Action   :   Members accepted and recommended the PhD course work courses and their corresponding credits.

S. No	Course Code	Course Name	Credits
1	40211BT106	Biochemistry	3
2	40211BT107	Cell and Molecular Biology	3
3	40211BT108	Introduction to Engineering Principles	3
4	40211BT109	Microbiology	3
5	40211BT101	Plant and Animal Cell Culture Technology	3
6	40211BT110	Genetic Engineering	3
7	40211BT102	Immunology	3
8	40211BT103	Bioprocess Engineering and Technology	3
9	40211BT104	Downstream Processing in Biotechnology	3
10	40211BT111	Bioreactor Operations	3
11	40211BT105	Computational Biology	3
12	40211BT112	Bioprocess Equipment Design and Economics	3
13	40211BT114	Bioenterpreneurship	2
14	40211BT113	Instrumentation and Control	3
15	40211BT115	Research Methodology and Scientific Communication skills	2
16	40211BT116	Intellectual Property Rights, Biosafety and Bioethics	2
17	40211BT117	Bioreaction Engineering	3
18	40211BT118	Precision Agriculture	3
19	40211BT119	Environmental Biotechnology	3

20	40211BT120	Enzyme Engineering and Technology	3
21	40211BT121	Metabolic and Systems Biology	3
22	40211BT122	AI and ML in Medical Diagnostics	3
23	40211BT123	Molecular Diagnostics	3
24	40211BT124	Nano Biotechnology	3
25	40211BT125	Bio Therapeutics	3
26	40211BT126	OMICS Technologies	3
27	40211BT127	Neurobiology	3
28	40211BT128	Biopharmaceutical Technology	3
29	40211BT129	Food and Nutraceuticals	3
30	40211BT130	Packaging Technology & Quality assurance	3
31	40211BT131	Cancer Biology	3

14 BoS 08 List of course offering from NPTEL platform for Program elective, Open elective and Honors courses for the AY SS 2025-26

Discussion	:	The Chairman – BoS listed the various courses to be offered through NPTEL Platform, under MOOC option, for completing the credits **for Program elective, Open elective and Honors courses** category, during the Summer semester of the Academic Year: 2025-2026. Expert members recommended the approval of these NPTEL courses, subjected to continuous monitoring of course availability and ensuring alignment with institutional credit and assessment frameworks. (List is give below)
Action	:	Members accepted and recommended the courses and their corresponding credits for the forth coming semester.

List of courses offering as a NPTEL courses in Program elective category

Course Code	Course Name	No. of Weeks	Credits	Online Portal Swayam/NPTEL
10212BT401	Environmental Biotechnology	12	3	SWAYAM
10212BT402	Industrial Biotechnology	12	3	NPTEL
10212BT403	Introduction to Proteomics	12	3	SWAYAM
10212BT404	Functional Foods and Nutraceuticals	12	3	NPTEL
10212BT405	Engineering Aspects of Biofuels and Biomass Conversion Technologies	12	3	NPTEL
10212BT406	Overview and Integration of Cellular Metabolism	12	3	NPTEL

List of courses offering as a NPTEL courses in Open elective category

Course Code	Course Name	No. of Weeks	Credits	Online Portal Swayam/NPTEL
10213BT414	Polymeric Biomaterials: Structure, Properties, Function and Performance	12	3	SWAYAM
10213BT415	Biomechanics of Joints and Orthopaedic Implants	8	2	NPTEL
10213BT416	Biomedical Nanotechnology	4	1	SWAYAM

| 10213BT417 | Introduction to Biomedical Imaging Systems | 12 | 3 | NPTEL |
| 10213BT418 | Fundaments of Computational Biology | 12 | 4 | NPTEL |

List of courses offering as a NPTEL courses in Honors category

Course Code	Course Name	No. of Weeks	Credits	Online Portal Swayam/NPTEL
10212BT401	Advances in Instrumentation and Chemical Data Analysis	12	4	10212BT401
10212BT402	Molecular Modelling and Drug Design	12	3	10212BT402
10212BT403	Biomechanics of Joints and Orthopaedic Implants	8	2	10212BT403
10212BT404	Nanotechnology, Science and Applications	8	2	10212BT404
10212BT405	Advances in Omics	8	2	10212BT405

14 BoS 09 Value-added/ IHL/ Industrial courses offering for the AY SS 2025-26

Discussion	:	Relevant short-term industry-linked and value-added courses were proposed By the Charmian. The Board reviewed the proposed list of Value-Added Courses (VACs), Industry-Higher Learning (IHL) programs, and Industrial/Skill-based courses to be offered during the Summer Semester of the Academic Year 2025–26.
Action	:	The Board approved the proposed list of Value-Added, IHL, and Industry higher learning Courses for the Summer Semester 2025–26.

S.No.	Course Code / Type	Course Name	Industry/ International Details
1	**Value-added course**	Animal Cell Culture Techniques	AviGen Biotech, Chennai
2	**Industrial course**	Analytical Instrumentation Techniques-HPLC	Yet to be Decided

14 BOS 10 Discussion on offering Biology for Engineers course as Mandatory course for first year students under VTR UGE 2025

Discussion	:	The Board have discussed the proposal to introduce "Biology for Engineers" as a mandatory course for all first-year undergraduate students of all engineering disciplines under the VTR UGE 2025 curriculum. The initiative aligns with the National Education Policy (NEP) 2020, which encourages interdisciplinary learning and the integration of foundational sciences into engineering education.
Action	:	Resolved that "Biology for Engineers" be approved as a mandatory course for all first-year undergraduate students under the VTR UGE 2025 curriculum, starting from the Academic Year 2025–26.

14th Board of Studies Minutes
Department of Biotechnology, School of Electrical and Communication, 12th May 2025

ITEMS FOR REPORTING

14 BoS 12 Students/ Faculty achievements

Discussion : The Chairman – BOS presented the list of Students achievements in Winter Semester of AY 2024–25

Action : Members appreciated and recorded.

14 BoS 13 Results of Previous semester

Discussion : The end-semester examination results for Nov 2024 were presented during the meeting.

Action : The Members adviced to improve the results of II and III year and recorded.

COURSE CODE	COURSE TITLE	TOTAL STRENGTH	PRESENT	PASS	PASS %
10212BT115	Cancer Biology	17	15	15	100
10212BT135	Food Safety, Quality and Regulation	16	13	13	100
10212BT132	Nutraceuticals	31	28	28	100
10211BT117	Plant And Animal Biotechnology	31	27	27	100
10211BT109	Advanced Biochemistry	62	59	57	96.6
10211BT115	Analytical & Instrumentation Engineering	62	57	55	96.4
10212BT133	Food Preservation, Packaging Technologies	41	38	38	100
10211BT105	Genetic Engineering	62	58	57	98.2
10212BT125	Herbal And Phytochemical Engineering	37	35	35	100
10211BT107	Mass Transfer Operations In Biotechnology	62	58	56	96.2
10212BT142	Omics Technologies	2	2	2	100
10212BT118	Stem Cell Technology	21	20	20	100
10211BT102	Cell Biology	62	61	57	93.4
10211BT114	Green Biotechnology & Pollution Abatement	62	61	57	93.4
10211BT101	Microbiology	62	58	57	98.2

10211BT104	Molecular Biology: Concepts& Techniques	62	61	57	93.4
10211BT108	Principles of Chemical Engineering	62	60	53	88.3
10211BT301	Microbiology Laboratory	62	60	60	100
10211BT303	Cell Biology Laboratory	62	58	58	100
10211BT302	Biochemistry Laboratory	62	61	61	100
10211BT305	Bioprocess Engineering Laboratory	62	52	52	100

ANY OTHER ITEMS

14 BoS 13 Completion of course from program elective category, (2021-2025 Batch students). The similar course "Nutraceuticals" has been offered instead of NPTEL course (Functional Food and Nutraceuticals) under VTR UGE 2021 regulation.

Discussion	:	In program elective category, the current final year students (2021-2025 Batch students) have completed all the courses from the existing department curriculum instead NPTEL online course. The course mapping has been done with online NPTEL platform course.

- Nutraceutical course has been mapped with **Functional Food and Nutraceuticals**.

Action	:	The Board recommended the completion of a program elective courses done by students of the 2021–2025 batch. The course "Nutraceuticals" was offered instead of the NPTEL course "Functional Food and Nutraceuticals" under VTR UGE 2021 regulations.

The suggestions and recommendations given by all the BOS members will be incorporated and the Chairman closed the meeting with vote of thanks.

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Dr. P. Azhagu Saravana Babu

BoS Chairman

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SCHOOL OF ELECTRICAL & COMMUNICATION

MINUTES OF MEETING
34th BOARD OF STUDIES

For

B.TECH./M.TECH. DEGREE PROGRAMME
ELECTRICAL AND ELECTRONICS ENGINEERING

DATE: 10/05/2025

TIME: 08:30 AM

VENUE: SIMULATION LAB, Room No.2213

34th Board of Studies Meeting

School: School of Electrical and Communication

Department: Electrical and Electronics Engineering

Date of Meeting: 10-05-2025

S.No	Name of the Member	Responsibility
1	**Dr. K. Karunanithi** Professor and Head (i/c) Department of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Chairman, Board of Studies
External Experts		
2	**Dr. R. Thirumalaivasan** Professor and Assistant Dean (Academics) School of Electrical Engineering Vellore Institute of Technology Vellore	Academic Expert
3	**Mr. Gurusamy Subramanian** Senior General Manager - Engineering Schneider Electric Systems India Chennai – 32	Industrial Expert
Special Invitee		
4	**Mr. K. Sarath Babu** B.Tech. 2016 Batch & M. Tech. 2019 Batch, Project Manager, Centurion Mobility Pvt. Ltd., Chennai - 95.	Alumni Representative
Internal Experts		
5	**Dr. P. K. Dhal** Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai	Member

6	**Dr. P. Chandrasekar** Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
7	**Dr. S. Sivakumar** Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
8	**Dr. K. Vinoth** Associate Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
9	**Dr. K. Karthikumar** Associate Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
10	**Dr. N. K. Rayaguru** Associate Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
11	**Dr. S. Vinoth John Prakash** Assistant Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member
12	**Dr. P. Sivaraj** Assistant Professor Dept. of Electrical and Electronics Engineering Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology Chennai	Member

SCHOOL OF ELECTRICAL & COMMUNICATION

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

34th BOARD OF STUDIES MEETING

Date: 10-05-2025   Time: 8:30 A.M.   Venue: Simulation Lab, Room No.2213

AGENDA

Items for Confirmation

34.01   To confirm and approve the 33rd Board of Studies minutes of meeting held on 8th February 2025.

34.02   To record the leave of absence of members.

Items for Discussion and Approval

34.03   VT UER-2025 regulations curriculum structure.

34.04   Basic Electrical and Electronics Engineering course syllabus for FME.

34.05   List of Ph.D. course work.

34.06   Summer semester (SS) course list for the academic year (AY) 2025-26.

34.07   Value-added courses for the AY 2025-26.

34.08   Self-learning course (NPTEL/SWAYAM) list for AY 2025-26.

34.09   Industry/Higher learning institute interaction courses AY 2025-26.

Items for Reporting

34.10   Interim feedback analysis of WS AY 2024-25.

34.11   Faculty and student accomplishments for CY 2025.

34.12   Any other items.

Minutes of Meeting

The Chairman-Board of Studies welcomed all the members for the BoS meeting and thanks them for sparing their valuable time. The Chair introduced the External BoS members.

Items for Confirmation

AGENDA 34.01	**To confirm and approve the 33rd Board of Studies minutes of meeting held on 8th February 2025.**
DISCUSSION	33rd Board of Studies meeting minutes is presented to the members and it is confirmed for approval.
AGENDA 34.02	**To record the leave of absence of members.**
DISCUSSION	All the members attended the meeting.

Items for Discussion and Approval

AGENDA 34.03	**B.Tech new regulations "VT UER-2025" curriculum structure.**
DISCUSSION	The curriculum structure of new regulations "VT UER-2025" for B.Tech EEE Programme is presented for discussion. The experts given their recommendations for approval to the new regulations curriculum structure.
ACTION	B.Tech new regulations "VT UER-2025" curriculum structure is attached as Annexure – I.
AGENDA 34.04	**Basic Electrical and Electronics Engineering course syllabus for FME.**
DISCUSSION	The course contents of "Basic Electrical and Electronics Engineering" are presented for discussion. The experts have satisfied with the syllabus contents and approved the same.
ACTION	The syllabus contents for the "Basic Electrical and Electronics Engineering" course are attached as Annexure – II.
AGENDA 34.05	**List of Ph.D. course work.**
DISCUSSION	The list of courses to be offered as Ph.D. course work under VTR DR 2021 Regulations is presented. The expert members recommended the list of courses. Also, the syllabus contents for a course "40212EE134 - Machine Learning and Deep Learning - Fundamentals and Applications" are presented for discussion. The experts approved the course contents and suggested to offer it as a Ph.D. course work in the Program Elective category.
ACTION	The course list for Ph.D. course work and the syllabus content of "Machine Learning and Deep Learning - Fundamentals and Applications" are attached as Annexure – III.
AGENDA 34.06	**Summer Semester (SS) course list for the academic year (AY) 2025-26.**

DISCUSSION	The list of courses offered in the summer semester (SS) AY 2025-26 are presented to the experts. The expert members approved the list of courses.
ACTION	The list of SS course list is attached as Annexure – IV.
AGENDA 34.07	**Value-added courses for the AY 2025-26.**
DISCUSSION	The list of VAC to be offered for B.Tech. – EEE programme are presented. The expert members approved the list of VAC after the discussion.
ACTION	The list of VAC and the course contents are attached as Annexure-V.
AGENDA 34.08	**Self-learning course (NPTEL/SWAYAM) list for AY 2025-26.**
DISCUSSION	The probable list of self-learning courses to be offered from NPTEL/SWAYAM for B.Tech. – EEE and M.Tech. - Power Electronics programmes are presented for discussion. The experts have recommended the courses for approval.
ACTION	The list of recommended self-learning courses and course contents are attached in Annexure - VI.
AGENDA 34.09	**Industry/Higher learning institute interaction courses AY 2025-26.**
DISCUSSION	The probable list of Industry/Higher Learning Institute Interaction courses to be offered in the summer semester AY 2025-26 is presented for discussion. The experts approved the list of courses and also suggested to offer a courses related to "Human–machine interaction" and "Radial axis motor design".
ACTION	It is attached as Annexure - VII.

Items for Reporting

AGENDA 34.10	**Interim feedback analysis of Winter Semester AY 2024-25.**
DISCUSSION	The interim feedback analysis summary for winter semester courses offered in the AY 2024-25 are reported to the expert members.
ACTION	The feedback report summary is attached as Annexure-VIII.
AGENDA 34.11	**Faculty and student accomplishments for CY 2025.**
DISCUSSION	The accomplishments and recognitions of the faculty members and students for CY 2025 are presented. The expert members greatly appreciated the involvements of students and faculty members for their academic and research activities.
ACTION	The report is attached as Annexure - IX.
AGENDA 34.12	**Any other items**
DISCUSSION	IDP Academic Excellence plan for EEE programme is discussed in the meeting. The experts suggested to offer a new B,Tech programme in "Electrical and Computer Engineering". Also,

	suggested to offer project based courses in the new regulations curriculum. Further, the experts requested to consider credit transfer for Patent publications.
	The strategies for increasing the admission in the existing B.Tech - EEE and M.Tech – Power Electronics programmes are discussed with experts.
	The course codes for the independent learning courses of M.Tech. Power Electronics programme are presented for ratification and the experts have approved the ratification. The course code details are attached as Annexure X.
	Industry/Higher learning institute interaction course outcome for a course "Energy Storage Systems" conducted in WS AY 2025-26 is reported to the expert members. The summary of reports is attached as Annexure XI.
ACTION	The suggestions are recorded for possible implementation.

CHAIRMAN – BoS

SCHOOL OF ELECTRICAL AND COMMUNICATION

43rd BOARD OF STUDIES

on

07.05.2025

Venue: Smart Classroom (Hall No. 1522)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
Deemed to be University u/s 3 of UGC Act 1956

SCHOOL OF ELECTRICAL AND COMMUNICATION
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINERING

AGENDA – 43rd BOARD OF STUDIES MEETING

Item No.	Agenda
	Item for Confirmation
43.01	To confirm the minutes of meeting of the 42nd Board of Studies held on 19.12.2024.
	Items for Discussion
43.02	To review the **Action Taken Report** on the minutes of 42nd BoS Meeting held on 19.12.2024.
43.03	Discussion of **R25 curriculum framework** for the UG programme to be offered from the Academic Year (AY) 2025 – 2026.
43.04	Syllabi discussion of 3rd and 4th semesters for the **UG programme core and 1st semester foundation course** to be offered under VT UER 2025.
43.05	List of **Value Added Courses** to be offered during Summer Semester (SS) of AY 2025 - 2026 under VTR UGE 2021.
43.06	List of **one credit courses** to be offered during SS 2025 - 2026 under VTR UGE 2021.
43.07	List of **MOOC courses** to be offered as programme elective and open elective courses under VTR UGE 2021.
43.08	Syllabi discussion of **the specialization** in "Integrated Circuit Technology" and the specialization in "Internet of Things"
	Items for Reporting
43.09	Student performance and placement details during the AY 2024 - 2025.
43.10	Industrial Visits (IV) underwent by the students during the AY 2024 - 2025.
43.11	Any other points

BoS Chairperson

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical and Communication

Department of Electronics and Communication Engineering

Chapter Name	: 43rd BoS Meeting
Date/Time of Meeting	: 07.05.2025 /10.00 am
Location of Meeting	: Smart Classroom (Hall No. 1522)

Members of Board of Studies

Serial Number	Name of the member	Designation	Signature
1	**Dr. A. Selwin Mich Priyadharson** **Professor and Head,** Department of Electronics and Communication Engineering, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Chairperson, Board of Studies	*[signature]* 07/05/2025
External Experts			
2	**Dr. M. Manikandan** Professor, Department of Electronics Engineering, MIT Campus, Anna University, Chennai - 600044. Email: maniiz@annauniv.edu Mobile: 9080505050	Academic Expert	ONLINE
3	**Mr. Dhanapathy Krishnamoorthy** Principal Engineer - Silicon Technologist Intel Start-Up Mentor, Bangalore	Industry Expert	ONLINE
4	**Mr. P. Vinodhan** Graduation Year: 2015, VTU 2510, Alumni-ECE, Organization name : Barclays Designation: Devops Engineer Email: vinodhan90@gmail.com Mobile: 8300594668	Alumni Representative	ONLINE
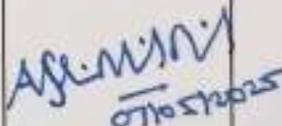
S.No.	Internal Members		Signature
1.	Dr. A. Selwin Mich Priyadharson Professor & Head of the Department	BoS Chairperson	
2.	Dr. R.S. Valarmathi Professor & Dean School of Electrical & Communication	Internal Member	
3.	Dr. P. Suresh Professor & Dean International Relations & HRDC	Internal Member	
4.	Dr. G. Sasikala Professor	Internal Member	
5.	Dr. V.S. Hemakumar Professor	Internal Member	
6.	Dr. K. Aanandha Saravanan Professor	Internal Member	
7.	Dr. C.R. Bharathi Professor	Internal Member	
8.	Dr. T. Kavitha Professor	Internal Member	
9.	Dr. S. Shiyamala Professor	Internal Member	
10.	Dr. J.L. Mazher Iqbal Professor	Internal Member	
11.	Dr. G. Aloy Anuja Mary Professor	Internal Member	
12.	Dr. J. Mohanraj Professor	Internal Member	
13.	Dr. S. Jana Professor	Internal Member	
14.	Dr. T. Kanimozhi Professor	Internal Member	
15.	Dr. P. Kalpana Devi Professor	Internal Member	
16.	Dr. L. Balaji Professor	Internal Member	
17.	Dr. Hari Krishana Paik Professor	Internal Member	
18.	Dr. E.D. Kanmani Ruby Professor	Internal Member	
19.	Dr. M. Lordwin Cecil Prabhakar Professor	Internal Member	
20.	Dr. M. Anto Bennet Professor	Internal Member	
21.	Dr. D. David Neels Ponkumar Professor	Internal Member	
22.	Dr. Beulah Jackson Professor	Internal Member	
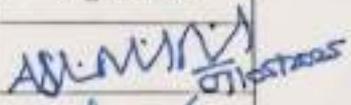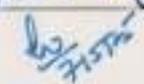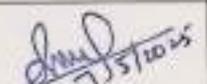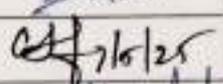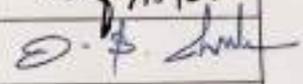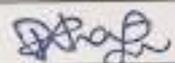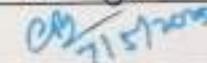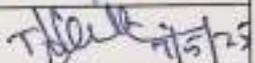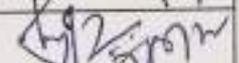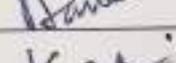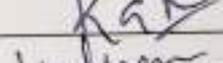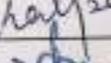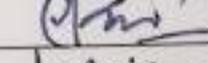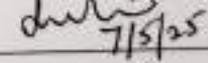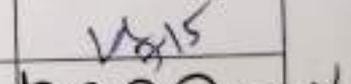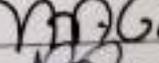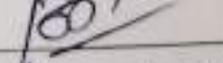
S.No.	Internal Members		Signature
23.	Dr. M. Sankar Professor	Internal Member	
24.	Dr. N. Vinodh Kumar Associate Professor	Internal Member	
25.	Dr. Helina Rajini Suresh Associate Professor	Internal Member	
26.	Dr. Sanjoy Debnath Assistant Professor	Internal Member	
27.	Dr. P.Rajendiran Assistant Professor	Internal Member	
28.	Dr. N. Vignesh Prasanna Associate Professor	PG Co-ordinator	
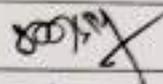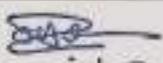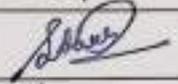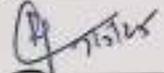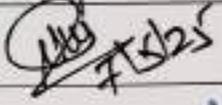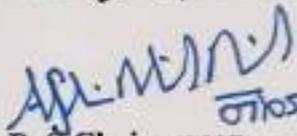
07/05/2025

BoS Chairperson

Dr.A. Selwin Mich Priyadharsan
Head of the Department
Electronics & Communication Engineering

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

MINUTES – 43rd BOARD OF STUDIES MEETING

Item No.	Agenda
	Item for Confirmation
43.01	To confirm the minutes of meeting of the 42nd Board of Studies held on 19.12.2024.
	Items for Discussion
43.02	To review the **Action Taken Report** on the minutes of 42nd BoS Meeting held on 19.12.2024.
43.03	Discussion of **VT UER - 2025 curriculum framework** for the UG programme to be offered from the Academic Year (AY) 2025 – 2026.
43.04	Syllabi discussion of **3rd and 4th semesters** for the **UG programme core and 1st semester foundation course** to be offered under VT UER - 2025.
43.05	List of **Value Added Courses** to be offered during Summer Semester (SS) of AY 2025 - 2026 under VTR UGE 2021.
43.06	List of **one credit courses** to be offered during SS 2025 - 2026 under VTR UGE 2021.
43.07	List of **MOOC courses** to be offered as programme elective and open elective courses under VTR UGE 2021.
43.08	Syllabi discussion of **the specialization** in "Integrated Circuit Technology" and the specialization in "Internet of Things"
	Items for Reporting
43.09	Student performance and placement details during the AY 2024 - 2025.
43.10	Industrial Visits (IV) underwent by the students during the AY 2024 - 2025.
43.11	Any other points

The 43rd BoS meeting started with a warm welcome by the Chairperson of the BoS. The meeting was held online and the board Chairperson briefed about the meeting proceedings and continued with the agenda.

Agenda #43.01: To confirm the minutes of meeting of the 42nd Board of Studies held on 19.12.2024.

Discussion #43.01: The BoS Chairperson briefed the action taken for the agenda points discussed in 42nd Board of Studies meeting held on 19.12.2024. The points are given below:

Item No.	Agenda
	Item for Confirmation
42.01	To confirm the minutes of meeting of the 41st Board of Studies held on 29.06.2024.

		Items for Discussion
	42.02	To review the Action Taken Report on the minutes of 41st BoS Meeting held on 29.06.2024.
	42.03	Syllabi discussion for the **UG programme elective courses** to be offered in the Academic Year (AY) 2024 - 25 under VTR UGE 2021.
	42.04	Revision in syllabi for the **UG programme core/elective courses** under VTR UGE 2021.
	42.05	List of **Value Added Courses (VAC)** to be offered during Winter Semester (WS) of AY 2024 - 25 under VTR UGE 2021.
	42.06	List of **one credit courses** to be offered during WS 2024 - 25 under VTR UGE 2021.
	42.07	List of **MOOC courses** to be offered as programme elective and open elective courses under VTR UGE 2021 and VTR PGE 2023.
	42.08	Discussion of **new specialization** in VLSI Domain – "Integrated Circuit Technology"
	42.09	Syllabi discussion for the **PG programme elective courses** to be offered in the AY 2024 - 25 under VTR PGE 2023.
	42.10	Syllabus discussion of newly introduced **Ph.D. course work.**
		Items for Reporting
	42.11	Student performance and placement details during the AY 2024 - 25.
	42.12	Student and faculty achievements in NPTEL course during July 2024 - October 2024.
	42.13	Industrial Visits (IV) underwent by the students during the AY 2024 - 25.
	42.14	Any other points

Action #43.01:　　Resolved, that the minutes discussed in the 42nd Board of Studies are hereby reviewed and shall be finalized.

Agenda #43.02:　　To review the Action Taken Report on the minutes of 42nd BoS Meeting held on 19.12.2024.

Discussion #43.02:　The following suggestions given by the BoS members during last meeting and the action taken were presented:

S.No.	Agenda Item No.	Action Taken
1.	**Item No. 42.03:** Syllabus discussion for the UG programme elective course to be offered in the Academic Year (AY) 2024 - 2025 under VTR UGE 2021. The suggestions given by Dr.O R Nandagopan, Director, (DIA-RCoE), IIT Madras, external member of ACM, regarding inclusion of project and research areas in CVRDE were discussed.	Based on the discussion, the syllabus for programme elective course for 3 credits on 'Electronic Warfare Radar Antenna Systems' and Value Added Course (VAC) on 'Photonic Technologies' were presented and has been approved in 48th ACM.
2.	**Item No. 42.04:** Revision in syllabi for the UG programme core/elective courses under VTR UGE 2021.	

		The following were the suggestions given by the BoS members:	1. The topic 'Real Time Clock' was retained in Unit IV - Peripheral Devices.
		1. Microprocessor and Microcontroller [10211EC109] – suggestion was given to retain the topic 'Real Time Clock'. **2. Microprocessor and Microcontroller Laboratory [10211EC304]** – experiments using 8085 and 8086 microprocessors can be removed and more experiments using PIC and microcontroller could be included.	2. Few introductory and basic experiments using 8085 and 8086 were retained and remaining programs were removed. In addition, experiment no. 11 and 12 were replaced with embedded C program to interface sensors and actuators with PIC microcontroller using MPLAB IDE. The syllabi have been updated and has been approved in 48th ACM.
3.		**Item No. 42.05:** List of VACs to be offered during Winter Semester (WS) of AY 2024 - 2025 under VTR UGE 2021. The BoS Chair discussed the list of 9 VACs to be offered during Winter Semester (WS) of AY 2024 - 2025 under VTR UGE 2021. The BoS members suggested to have fundamental programming skill course on Verilog rather than System Verilog. In addition, they suggested to include courses in VLSI having synthesizable codes and linking concepts of programming to tape out.	The following VACs are included for approval in the 43rd BoS meeting. • Tools for cyber security • Autonomous Navigation and SLAM using ROS2 • System verilog for RTL design • LTE & 5G Testing • AI for Drone Dynamics – Hands on Experience • Cloud Computing • RTL Design and Verification: An Interactive Workshop on Verilog, PCIE, and AXI Protocols • Photonic Technologies • Learn and Start building Verification Testbenches in System Verilog based Verification Methodologies - OVM and UVM • Embedded IOT and its applications • RTL Architect: Using RTL Restructuring
4.		**Item No. 42.06:** List of one credit courses to be offered during WS 2024 - 2025 under VTR UGE 2021. The BoS Chair discussed the list of 5 one credit courses to be offered by the office of the Industry Relations during WS 2024 - 2025 under VTR UGE 2021 based on the stake holders feedback obtained during summer semester of AY 2024-2025. The BoS members suggested to have more focus on emerging fields such as VLSI, Devops, Cloud Computing and Electric	The following one credit courses were offered during WS2024-2025 and are included for approval in the 43rd BoS meeting. Courses offered by office of Industry Relations 10215EC938 – Quantum Computing 10215EC939 – Digital Forensics with real case study 10215EC940 – Cloud Forensics 10215EC941 – Smart Automation

	Vehicles.	Courses offered by office of Internation Relations 10215EC935 - Technologies and Practice of the Internet of Thing 10215EC936 - Introduction and Practice of 5G/B5G Core Networks 10215EC937 - IoT: Architecture, Applications, and Challenges 10215EC942 - RF Energy Harvesting: Fundamentals, Design, and Simulation	
5.	**Item No. 42.07:** List of MOOC courses to be offered as programme elective and open elective courses under VTR UGE 2021 and VTR PGE 2023. The BoS Chair discussed the list of NPTEL courses to be offered as programme elective and open elective courses under VTR UGE 2021 and VTR PGE 2023 during WS 2024-2025.	Eight NPTEL courses were offered as programme elective courses and 4 NPTEL courses were offered as open elective courses and were recommended and approved in 48th ACM.	
6.	**Item No. 42.08:** Discussion of new specialization in VLSI Domain – 'Integrated Circuit Technology'. The list of 10 courses were suggested by the professors in the VLSI domain and also BoS-industry expert, that could be offered in the new specialization namely 'Integrated Circuit Technology'.	The course content of the below listed courses are to be prepared and submitted for the industry and academic expert feedback in the forthcoming BoS. • SOC Design and Verification • SOC Design through Physical Implementation leading to Tape-Out • CAD for VLSI • FPGA Programming • Microfabrication Semiconductor and Materials • AI and ML for VLSI CAD • Design for Testability • AI Circuits • IC Packaging • Verification Tools and Techniques	
7.	**Item No. 42.09:** Syllabi discussion for the PG programme elective courses to be offered in the AY 2024 - 2025 under VTR PGE 2023. The PG coordinator presented the syllabi for the following programme elective courses and the suggestions provided by the BoS members are as follows: 1. The BoS members suggested to include topics such as EV's as they are gaining high momentum.	1. Corrections were incorporated in the course 'Modern Automotive Electronics Systems [20232EC105]'. 2. The syllabus of the theory course 'Machine Learning and Deep Learning [20232EC106]' was converted to theory dominated.	

		2. In addition, converting theory course 'Machine Learning and Deep Learning [20232EC106]' to either lab dominated or theory dominated was suggested.	
8.	**Item No. 42.10:** Syllabus discussion of newly introduced Ph.D. course work. The BoS Chair presented the syllabus of newly introduced Ph.D. course work 'IoT for Smart Farming Systems [40211EC132]'.	The recommendations to include the course have been forwarded and approved in 48th ACM.

All the members reviewed the action taken for the points discussed above and suggested to move on to next agenda.

Action #43.02: Resolved, that the action taken for the points discussed in the 42nd Board of Studies are hereby recommended for approval in the ACM.

Agenda #43.03: Discussion of R25 curriculum framework for the UG programme to be offered from the Academic Year (AY) 2025 – 2026.

Discussion #43.03: The R25 curriculum framework for UG programme with 165 credits was discussed in addition to the semester–wise course list, briefing the individual credit components L-T-P-C. The framework is structured covering foundation sciences, core engineering, electives, project-based learning, internships, and skill/value enhancement components to ensure comprehensive academic and professional development.

The semester–wise courses discussed during the meeting is attached as Annexure. The industry expert insisted to provide soft skill training from second year onwards with more concentration to communication skills to crack placement and also suggested to include components like mock interviews and resume building. The components of curriculum 2025 is given below.

S. No.	Curriculum Component (AICTE)	Course Category	Total number of credits
1	Basic Sciences	Foundation Courses	26
2	Basic Engineering		16
3	Humanities and Social Sciences		7
4	Programme Core	Programme Core	58
5	Programme Electives	Programme Electives	21
6	Multidisciplinary / Open Electives	Open Electives	9
7	Project(s)	Independent Learning (CSP/MiP.1/Internship/Major Project)	12
8	Internships		2

9	Project work, seminar and internship in industry or appropriate work place/ academic and research institutions in India/abroad	Industry/Higher Institute Learning (IHL)	2
10	Any other (Please specify)	Ability Enhancement Courses (AEC)	4
		Skill Enhancement Courses (SEC)	4
		Value Added Courses (VAC) (Including IKS)	4
11	Mandatory Non CGPA Courses – Audit Course	Mandatory Courses	0
		Total number of Credits	**165**

Action #43.03:   Resolved that the R25 curriculum framework for UG programme with 165 credits is hereby recommended for approval in the ACM.

Agenda #43.04:   Syllabi discussion of 3rd and 4th semester UG programme core and 1st semester foundation course to be offered under VT UER - 2025.

Discussion #43.04:   (i) The syllabi of the first semester foundation course and the 3rd and 4th semester UG programme core courses under VT UER - 2025 were discussed and the suggestions given by the BoS members for the below listed courses are as follows:

S.No.	Course Title	L	T	P	C
First year foundation course [Semester I]					
1.	Basics of Electrical and Electronics Engineering	2	0	2	3
List of programme core courses [Semester: III]					
2.	Analog Integrated Circuits	3	0	2	4
3.	Digital Electronics	2	0	2	3
4.	Signals and Systems	2	1	0	3
5.	Network Theory	2	1	0	3
List of programme core courses [Semester: IV]					
6.	Analog and Digital Communication	3	1	0	4
7.	Microprocessor and Microcontroller	3	0	0	3
8.	Electromagnetics and Transmission Lines	3	1	0	4
9.	Analog and Digital Communication Laboratory	0	0	2	1
10.	Microprocessor and Microcontroller Laboratory	0	0	2	1

The BoS members suggested to include the fundamentals of RISC architecture, protocols and instruction set either as a separate unit in the 4th semester programme core course 'Microprocessor and Microcontroller' upon combining 8085 and 8051 units together or to introduce a separate programme elective course on RISC.

(ii) During the syllabi discussion of 1st semester foundation course 'Basics of Electrical and Electronics Engineering', BoS members suggested to include a topic on CMOS if possible, so that even other department students will be aware of the latest technology and its application.

Action #43.04: The suggested topic 'CMOS' for first year foundation course Basic Electrical and Electronics Engineering could be included in program specific higher semester courses. The foundation course is common to the students of all the UG programs. Resolved that the suggestions to introduce RISC as a programme elective in R25 curriculum is hereby recommended for approval in the ACM.

Agenda #43.05: List of Value Added Courses (VACs) to be offered during Summer Semester (SS) of AY 2025 - 2026 under VTR UGE 2021.

Discussion #43.05: The BoS Chair discussed the list of 12 VACs to be offered during SS of AY 2025 - 2026 under VTR UGE 2021. Following is the list of VACs.

S.No.	Course Title
1.	Anomaly detection security enhancements and AI powered chatbots for IoT
2.	Mastering Python: From Basics to Pro
3.	Physical Design using Synopsys IC Compiler II
4.	IoT and embedded system for agriculture applications to satisfy SDG
5.	5G-Enabled Drones
6.	PCB design and testing
7.	Building Smart Cities with IoT: Applications & Challenges
8.	Data Analytics using python
9.	Mixed-Signal Simulation with Synopsys AMS Designer
10.	IoT and embedded system for health care applications to satisfy SDG
11.	Design and simulation of Antennas, RF & Microwave components using ANSYS HFSS
12.	Data Analytics using Python

Action #43.05: Resolved that the course list is hereby recommended by the members of the BoS for approval in the ACM.

Agenda #43.06: List of one credit courses to be offered during SS 2025 - 2026 under VTR UGE 2021.

Discussion #43.06: The BoS Chair presented the list of 4 one credit courses that were offered by the Office of Industry Relations and the list of 4 one credit courses that were offered by the Office of International Relations during WS 2024 - 2025 under VTR UGE 2021 based on the stake holders feedback obtained during SS 2024-2025.

List of 4 one credit courses offered by the Office of Industry Relations:

S.No.	Course Code	Course Name
1.	10215EC940	Cloud Forensics
2.	10215EC939	Digital Forensics with real case study
3.	10215EC938	Quantum Computing
4.	10215EC941	Smart Automation

List of one credit courses offered by the Office of International Relations:

S.No.	Course Code	Course Name
1.	10215EC937	IoT: Architecture, Applications, and Challenges
2.	10215EC936	Introduction and Practice of 5G/B5G Core Networks
3.	10215EC935	Technologies and Practice of the Internet of Thing
4.	10215EC942	RF Energy Harvesting: Fundamentals, Design, and Simulation

Action #43.06: Resolved that the course list is hereby recommended by the members of the BoS for approval in the ACM.

Agenda #43.07: List of MOOC courses to be offered as programme elective and open elective courses under VTR UGE 2021.

Discussion #43.07: The BoS Chair discussed the list of NPTEL courses to be offered as programme elective and open elective courses under VTR UGE 2021 during SS 2025-2026.

S.No.	Course Title	Duration (weeks)	Credits	Category
1.	Cloud Computing	12	3	PE
2.	Analog VLSI Design	12	3	PE
3.	Microsensors & Nanosensors	12	3	PE
4.	Problem Solving Through Programming in C	12	3	PE

S.No.				
5.	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	12	3	PE
6.	Pattern Recognition and Application	12	3	PE
7.	Introduction to Adaptive Signal Processing	8	2	PE
8.	5G Wireless Standard Design	12	3	PE
9.	Privacy and Security in Online Social Media	12	3	OE
10.	C- based VLSI design	12	3	OE
11.	Electronic Systems for Cancer Diagnosis	12	3	OE
12.	System Design for Sustainability	12	3	OE
13.	Real-Time Digital Signal Processing	12	3	OE
14.	Digital Speech Processing	8	2	OE

Action #43.07: Resolved that the inclusion of courses under Independent Learning (MOOC) category is hereby recommended for approval in the ACM, by the members of the BoS.

Agenda #43.08: Syllabi discussion of the specialization in "Integrated Circuit Technology" and the specialization in "Internet of Things"

Discussion #43.08: (i) The syllabi discussion for the proposed list of courses to be offered under the specialization 'Integrated Circuit Technology' for VTR UGE 2021 is given below.

S.No.	Course Name
1.	SOC Design and Verification
2.	SOC Design through Physical Implementation leading to Tape-Out
3.	CAD for VLSI
4.	FPGA Programming
5.	Microfabrication Semiconductor and Materials
6.	AI and ML for VLSI CAD
7.	Design for Testability
8.	AI Circuits
9.	IC Packaging
10.	Verification Tools and Techniques

The following are the suggestions given by BoS members for inclusion in the syllabus of the listed courses:

1. SOC Design and Verification – Introduce fundamentals of System Verilog prior to the topic on RTL. Specific IPs must be specified in the unit. Bridges and networking

concepts are mandatory before learning about IP. Since the course is about designing SoC, few design topics shall be included. Experiment 1 shall be modified for better clarity whether it is theory or practical.

2. SOC Design through Physical Implementation leading to Tape-Out – Detailed topic must be included for Unit 5. CO2 and CO5 under list of experiments shall be considered for removing the INCISIVE simulator and instead to include few experiments on floor planning, micro placement and routing.

3. CAD for VLSI, FPGA Programming and AI and ML for VLSI CAD – The courses shall be considered for the category 'Theory dominated Integrated Course' rather than theory course. Prerequisite of AI and ML for VLSI CAD course shall be specified as Python.

4. Microfabrication Semiconductor and Materials – Few advanced topics such as UVd and FINFET shall be considered for inclusion in the syllabus.

5. AI Circuits – Unit 3 on neuromorphic computing shall be elaborated by giving an evolution of architectures from Von Neumann in comparison to advanced AI architectures. Execution and computing algorithms in CPU vs. GPU could be included. The following topics must be available such as execution, memory and SoC bandwidth.

6. Verification Tools and Techniques – System Verilog related topics shall be introduced in the syllabus.

(ii) The syllabi discussion for the proposed list of 2 courses to be offered under the specialization "Internet of Things" for VTR UGE 2021 is given below.

S.No.	Course Name
1.	ARM System Architecture
2.	Embedded Linux

Action #43.08:   Resolved that the syllabi discussed for the above listed courses are hereby recommended by the members of the BoS for approval in the ACM.

Agenda #43.09:   Student performance and placement details during the AY 2024 - 2025.

Discussion #43.09:   The BoS Chair reported the student performance and placement details for the AY 2024-2025. The members reviewed the percentage of results.

Action #43.09:   Resolved that the performance and placement details were reported to the members of BoS.

Agenda #43.10:   Industrial Visits (IV) underwent by the students during the AY 2024 - 2025.

Discussion #43.10: The BoS Chair presented the IVs underwent by the students during the WS 2024-2025. The BoS members appreciated the initiatives taken by the department for arranging IVs in good companies.

Action #43.10: Resolved more industrial collaboration will be initiated during the forthcoming academic year by way of IVs.

Agenda #43.11: Any other points:

Discussion #43.11: The BoS Chair represented that the one credit course '10215EC931-Sensor Integration with IoT' has to be renamed as 'Sensor Integration with Internet of Things' and the same be approved

Action #43.11: Resolved that the change of course name shall be approved in ACM as recommended by BoS members.

The meeting ended with a formal thanks by the Chair of BoS. The suggestions given by the external BoS members are incorporated and further it is submitted for approval in ACM.
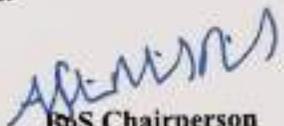
BoS Chairperson

Priyadharson
Head of the Department
Communication Engineering

Vel Tech
Rangarajan Dr. Sagunthala
Institute of Science and Technology

Dr. Valarmathi. R.S
Dean - School of Electrical & Communication

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

8th MEETING of BOARD of STUDIES

Minutes

for

B.Tech.

Artificial Intelligence and Data Science

Programme

[CBCS]

On

09.05.2025

B.Tech. Artificial Intelligence and Data Science
School of Computing

8th MEETING of BOARD of STUDIES

Index

B.TECH. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

SCHOOL OF COMPUTING

8TH MEETING OF BOARD OF STUDIES

Date: 09.05.2025   **Venue: SOC Block**

AGENDA

Item No	Agenda
A. Opening	
1.	Confirmation of 7th BoS meeting minutes held on 13.12.2024 (**Annexure-I**).
2.	To review the Action Taken Report on the minutes of the 7th meeting of the Board of Studies (**Annexure-II**).
B. Items to be considered	
3.	To discuss and approve the **curriculum structure** for B.Tech. Artificial Intelligence and Data Science **VTR UGE 2025** (**Annexure-III**)
4.	To discuss and approval of Online MOOCs platform course under Program Elective and Open Elective category under regulation VTR UGE 2021 with effect from Summer Semester 2025-26 (**Annexure-IV**)

Program Elective category

S.No.	Course Code	Course Name	Course Provider	Duration in weeks	Credits
1	10212AD405	Cloud Computing	NPTEL	12	3
2	10212AD406	Block Chain and its Applications	NPTEL	12	3

Open Elective category

S.No.	Course Code	Course Name	Course Provider	Duration in weeks	Credits
1	10213AD440	Introduction to Soft Computing	NPTEL	8	2
2	10213AD441	Machine Learning for Engineering and Science Applications	NPTEL	12	3

5.	Approval of Courses offered under the category of Industry / Higher Institute Learning Interaction (IHL) during Summer Semester 2025-26 (**Annexure-V**).						
	Sno	Course code	Course Name	L	T	P	C
	1	****	AI-IoT Innovation Sprint Program	1	0	1	2
6.	To discuss the Stakeholders feedback on curriculum of B.Tech. Artificial Intelligence and Data Science taken for the Winter Semester 2024-25 (**Annexure-VI**).						
7	Any other cognate item To Present the Revised Stakeholders Format. (**Annexure-VII**).						

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

NAAC A++

CATEGORY-1 DEEMED TO BE UNIVERSITY by the UGC

School of Computing
8th Meeting of Board of Studies
for
B.Tech. - Artificial Intelligence (AI) And Data Science

Date: 09.05.2025
Venue: 33023

Timings: 10:00 AM – 12.00PM

Members Present:

Sl.No.	Name and Designation	Nominee	Signature
1	Dr. S. P. Chokkalingam, Professor and Dean, School of Computing, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Chairman	
2	Prof.Dr.P.Radha Krishna Professor, Dept of CSE National Institute of Technology, Warangal	Academic Expert Nominee	online
3	Prof.Dr.Debdatta Kandar Professor, Dept of IT, North-Eastern Hill University, Shillong	Academic Expert Nominee	online
4	Mr. G. Roy Antony Arnold Senior Consultant, Infosys, Chennai	Industry Expert Nominee	online
5	Ms.Pathipati Saranya Engineer to - Software Development, Verizon, Hyderabad	Alumni Nominee	online
6	Dr.V.Dhilip Kumar Professor & Associate Dean, School of Computing, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Professor Nominee	
7	Dr.P.Santhi Professor & Head Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Professor Nominee	
8	Dr.R.Anandh Associate Professor Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and	Associate Professor Nominee	

	Technology		
9	Dr.John T Mesia Dhas Associate Professor Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Associate Professor Nominee	
10	Dr.M.Sam Navin Assistant Professor Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
11	Dr.S.Maheswari Assistant Professor Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
12	Ms.R.Tejashree Third Year (2022-2026) Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Student Nominee	
13	Ms.K.Lekha Third Year (2022-2026) Department of AI&DS, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Student Nominee	

Vel Tech
Rangarajan Dr. Sagunthala
RSD Institute of Science and Technology

NAAC
A++

Recognised as
CATEGORY-1
DEEMED TO BE UNIVERSITY
by the
UGC

Invited Members:

Sl.No.	Name and Designation	Signature
1	Dr.M.Kavitha Professor CSE	
2	Dr.N.Vijayaraj Professor & Head of CSE	
3	Dr.M.S.Muralidhar Associate Professor & Asst. Head of CSE	
4	Dr.R.Parthasarathy Associate Professor & Head of CSD	
5	Dr.M.Gokuldhev Professor & Head Department of CSE (Data Science)	
6	Dr.S.Lalitha Associate Professor & Head of CSE (AIML)	
7	Dr.S.Alex David Professor & Head of AIML	
8	Dr.T.Rajendran Professor & Head of CSE (Cyber Security)	
9	Dr.J.Visumathi Professor & Head of IT	

Dean SoC
Dr.SP.Chokkalingam
Dean,
School of Computing

Vel Tech
Rangarajan Dr. Sagunthala

Minutes of the Meeting

The Chair expressed his happiness in welcoming all the members for the 8th meeting of BOS and thanked them for sparing their valuable time.

08-BoS-01	Confirmation of 7th BoS meeting minutes held on 13.12.2024.
Action taken	Chairman of BoS presented the confirmation of 7th BoS meeting minutes held on 13.12.2024 in the programme B.Tech. Artificial Intelligence and Data Science under the regulation VTR UGE 2021. **(Annexure-I)**
08-BoS-02	To review the Action Taken Report on the minutes of the 7th meeting of the Board of Studies.
Action Taken	Chairman of BoS presented the action taken report on the 7th BoS meeting minutes held on 13.12.2024 in the programme B.Tech. Artificial Intelligence and Data Science under the regulation VTR UGE 2021. **(Annexure-II)**
08-BoS-03	To **discuss** and **approve** the new curriculum design keeping in view of National Education Policy (NEP) 2020, ACM IEEE, AICTE Model Curriculum, NASSCOM and Digital India Skill for B.Tech. Artificial Intelligence and Data Science - Regulation 2025. (**Annexure III**)
Discussion	An industry expert recommended including the Agent Systems course either as a Program Core or a Program Elective. They also suggested introducing the Massive Data Mining course as a Program Elective. Committee members proposed integrating Agile Methodology into the Software Engineering course and recommended moving the Blockchain Technology course from the Core Elective category to a General Elective. Additionally, they suggested adding Data Visualization and User Interface Design to the Open Elective offerings. The industry expert also recommended using the Julia programming language for Data Science, if feasible.
Resolution	The suggestions provided by the members have been incorporated into the curriculum, and the curriculum structure for Regulation 2025 has been approved. **(Annexure III)**
08-BoS-04	To discuss and approval of Online MOOCs platform course under Program Elective and Open Elective category under regulation VTR UGE 2021 with effect from Summer Semester 2025-26.
Discussion	BoS Chairman presented the Program Elective Course like Cloud Computing, Block Chain and its Applications, Introduction to Soft Computing and Machine Learning for Engineering and Science Applications were presented to the members.
Resolution	The members approved the Program Elective Courses, Open Elective Courses and course contents offered under MOOC category during Summer semester 2025-2026. **(Annexure-IV)**
08-BoS-05	To discuss and approval of Courses offered under the category of Industry / Higher Institute Learning Interaction (IHL) during Summer Semester 2025-26 **(Annexure-V).**
Discussion	Chairman of BoS presented the AI-IoT Innovation Sprint program course and the course content under IHL category.

Resolution	The members approved the course under IHL category during Summer Semester 2025-26 (**Annexure-V**).
08-BoS-06	To discuss the **feedback on curriculum** of B.Tech. Artificial Intelligence and Data Science taken for the Winter semester 2024-2025. (**Annexure- VI**).
Discussion	The members reviewed the action taken based on Stakeholder`s feedback on curriculum of B.Tech. Artificial Intelligence and Data Science for the Winter semester 2024-2025.
Resolution	The members approved the courses included in the curriculum under various category based on the Stake holder feedback analysis. (**Annexure- VI**).
08-BoS-07	Any other cognate item To discuss and approve the new format of Stakeholders feedback on Curriculum. (**Annexure-VII**)
Discussion	The members suggested including a **remarks column** for each item in the curriculum particulars.
Resolution	The members approved the new format of Stakeholders feedback analysis on Curriculum. The suggestions will be communicated to the office of the Dean Academics for further discussion. The next *Board of Studies (BoS)* meeting will be held in the month of *December 2025*.

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai-600062, Tamil Nadu, India

8th MEETING of BOARD of STUDIES

Agenda

for

B.Tech

Artificial Intelligence and Machine Learning

[CBCS]

On

25.04.2025

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai-600062, Tamil Nadu, India

B.Tech Artificial Intelligence and Machine Learning

School of Computing

8th MEETING of BOARD of STUDIES
For
B.Tech Artificial Intelligence and Machine Learning

Index

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai-600062, Tamil Nadu, India

8th MEETING of BOARD of STUDIES
For
B.Tech Artificial Intelligence and Machine Learning

Date: 25.04.2025

Venue: SOC Block

AGENDA

Item No	Agenda
A. Opening	
1.	Confirmation of 7th BoS meeting minutes held on 14.12.2024 **(Annexure-I).**
2.	To review the Action Taken Report on the minutes of the 7th meeting of the Board of Studies **(Annexure-II).**
B. Items to be considered	
3.	To discuss and approve the **curriculum structure** for B.Tech Artificial Intelligence and Machine Learning **VTR UGE 2025** (Annexure-III)
4.	To discuss and approval of Online MOOCs platform course under Program Elective category under regulation VTR UGE 2021 with effect from Summer Semester 2025-26 (**Annexure-IV**)

Program Elective category

S.No.	Course Code	Course Name	Course Provider	Duration in weeks	Credits
1	10212AM405	Human Computer Interaction	NPTEL	12	3

5.	Approval of Courses offered under the category of Industry / Higher Institute Learning Interaction (IHL) during Summer Semester 2025-26 (**Annexure-V**).

Sno	Course code	Course Name	L	T	P	C
1						

6.	To discuss the Stakeholders feedback on curriculum of B.Tech Artificial Intelligence and Machine Learning taken for the Winter Semester 2025-26 (**Annexure-VI**).

Items to be Ratified

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai-600062, Tamil Nadu, India

7.	Ratification of **courses offered under the category of Industry / Higher Institute Learning Interaction (IHL)** offered by Industry and Higher Institute Experts for B.Tech Artificial Intelligence and Machine Learning in summer Semester 2024-25. **(Annexure-VII).**						
		Sno	Course code	Course Name	L	T	P	C
		1		Exploring Machine learning - tools, techniques, trends	30			2
8.	Any other cognate item						

41st MEETING of BOARD of STUDIES

Minutes

For

B.Tech(Computer Science & Engineering)

M.Tech(Computer Science and Engineering)

M.Tech(Big Data Analytics)

[CBCS]

On

26.04.2025

Department of Computer Science & Engineering

School of Computing
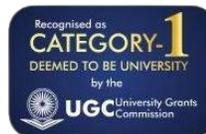
School of Computing

Department of Computer Science and Engineering

41ˢᵗ MEETING of BOARD of STUDIES

For

B.Tech(CSE), M.Tech(CSE) and M.Tech(BDA)

INDEX

School of Computing
40th MEETING of BOARD of STUDIES

For
B.Tech(CSE),M.Tech(CSE) and M.Tech(BDA)

Date: 30.12.2024 – 2.00 PM, Venue: 33023

Sl.No	Name and Designation	Nominee	Signature
1	Dr. SP Chokkalingam Professor& Dean(SoC)VelTech	Chairperson	
2	Dr. Debasis Samanta Associate Professor Department of Computer Science and Engineering, IIT Kharagpur,	Academic Expert Nominee	
3	Dr.Sarma Venkataraman (Retired as Group Director from ISRO/DoS inJune2020) Director, CRRao AIMSCS. University of Hyderabad Campus, Gachibowli, T elangana.	Academic Expert Nominee	
4	Mr. Ashwin Raghunatha Chari Vice President, Global Insurance Capgemini, India	Industry Expert Nominee	
5	Dr. Arish Senior Associate in Innovation Hub, PWC, Bangalore	Industry Expert Nominee	
6	Mr.Praneeth Senior data scientist Impetus technologies Hyderabad	Alumni	
7	Dr.V.Dhilipkumar Professor & Associate Dean(SoC), Vel Tech	Professor Nominee	
8	Dr.N.Vijayaraj, Professor & Head, CSE, Vel Tech	Professor Nominee	
9	Dr. M. S. MuraliDhar, Associate Professor &AsstHead, CSE, Vel Tech	Associate Professor Nominee	
10	Dr. E. Kannan, Professor, CSE, VelTech	Professor Nominee	
11	Dr. N. Malarvizhi, Professor, CSE, VelTech	Professor Nominee	
12	Dr. R. Suguna, Professor, CSE, VelTech	Professor Nominee	
13	Dr. N. Gomathi, Professor, CSE, VelTech	Professor Nominee	

14	Dr. M. Kavitha, Professor, CSE, VelTech	Professor Nominee	
15	Dr. N. R. Rajalakshmi, Professor, CSE, VelTech	Professor Nominee	
16	Dr. R. Srinivasan, Professor, CSE, VelTech	Professor Nominee	
17	Dr. S. Sridevi, Professor, CSE, VelTech	Professor Nominee	
18	Dr. A. Bhagyalakshmi, Professor, CSE, VelTech	Professor Nominee	
19	Dr. S. Jagan, Professor, CSE, VelTech	Professor Nominee	
20	Dr.T. Kamaleshwar, Associate Professor, CSE, Vel Tech	Associate Professor Nominee	
21	Dr.Sundaranarayana, Associate Professor, CSE, Vel Tech	Associate Professor Nominee	
22	Dr.T.Kujani, Assistant Professor(Sr.Grade), CSE, Vel Tech	Assistant Professor Nominee	
23	Dr.S.Saranraj, Assistant Professor(Sr.Grade), CSE, Vel Tech	Assistant Professor Nominee	

Invited Members

| SI NO	NAME	DESIGNATION	SIGNATURE
1.	Dr. J. Visumathi	Professor & Head, Dept of B.Tech(IT)	
2.	Dr. Alex David	Professor & Head, Dept of AI&ML	
3.	Dr. R. Parthasarathy	Associate Professor & Head, Dept of CSD	
4.	Dr.Shanthi	Professor & Head, Dept of AI&DS	
5.	Dr. GokulDhev	Associate Professor & Head, Dept of CSE(DS)	
6.	Dr. T. Rajendran	Associate Professor & Head, Dept of CSE(CS)	
7.	Dr. S. Lalitha	Associate Professor & Head, Dept of CSE(AI&ML)	
8.	Dr.R.Aruna	Professor & Head, PG	
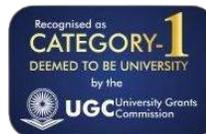
School of Computing

Department of Computer Science and Engineering
41st MEETING of BOARD of STUDIES
For
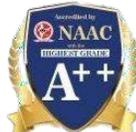**B.Tech(CSE), M.Tech(CSE) and M.Tech(BDA)**

Date: 26.04.2025
Venue: SoC Block/33023

AGENDA

Item No	Agenda
A. Opening	
40-BoS-1	Confirmation of 40th BoS meeting minutes held on 30.12.2024. (Annexure-I)
Action Taken:	The minutes of 40th BoS meeting minutes held on 3012.2024 was circulated to members through e-mail, the members confirmed the minutes. [Annexure - I]
40-BoS-2	To review the Action Taken Report on the minutes of the 40th meeting of the Board of Studies.
Action Taken:	The members reviewed the action taken report on the decisions of 40th BoS meeting minutes held on 30.12.2024 [Annexure - II]
B. Items to be considered	
40-BoS-3	To discuss the stakeholders feedback on curriculum of B.Tech CSE taken during the Winter Semester 2024-2025
Discussion	The Chair presented the Feedback on curriculum received from various stake holders and action taken with respect to feedback. Members appreciated the efforts taken for collecting the feedback and also for the action taken by including the suggested courses in the Curriculum
Resolution	The Suggested courses will be offered and included in the curriculum of B.Tech CSE. [Annexure - III]
C. Items for Approval	
40-BoS-4	To discuss and approve the new curriculum structure to be offered for B.Tech CSE under the new Regulation 2025 keeping in view of National Education Policy (NEP) 2020, ACM IEEE, AICTE Model Curriculum, NASSCOM and Digital India Skills to be implemented with effect from the academic year Summer 2025-2026.
Discussion	The Chair presented the new Curriculum Structure of regulation 2025 to members. It was informed that curriculum category is framed by taking inputs from NEP 2020, ACM/IEEE 2023 Curricula, AICTE Model Curriculum and from various stakeholders. The NBA Graduate Attributes (POs/PSOs), Vision, Mission and PEOs were also taken as input. SWOC analysis was made to identify the Strengths, Weakness, Opportunity and Challenges of the programme and
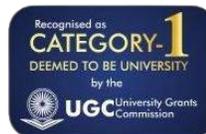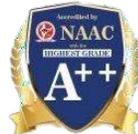
	Curriculum Structure was framed. The draft curriculum is placed in the Department Advisory Committee for further discussion. The experts suggested that System Design course shall be introduced as Program Core.
Resolution	The member approved the Curriculum Category and suggestions made by the members will be considered for framing of Curriculum under the regulation 2025. The Curriculum Category is defined in (Annexure –IV)
5	To discuss and approve the new course to be offered under the foundation category for B.Tech CSE under the new Regulation 2025 with effect from the Academic Year 2025-2026.
Discussion	The Chair informed that at present Problem Solving Using C Theory and Laboratory course syllabus is framed under Foundation Core category and placed before the members for approval, the same will be offered during Summer 2025-2026. The members suggested that case studies shall be included in all the Units, Storage Class and detailing of Union shall be done.
Resolution	The member approved and suggestions made by the members will be incorporated in the syllabus of Problem Solving Using C. Course Content is available in (Annexure –V)
6.	To discuss and approve the new courses to be offered under Program Elective category in various specialization for existing B.Tech CSE under the regulations VTR UGE 2021 during the Summer Semester 2025-2026.
Discussion	The Chair presented the new courses under the Program Elective Category to be offered under various specialization for existing B.Tech CSE Dr.Arish suggested that Quantum Machine Learning Syllabus shall be reframed and asked to forward the syllabus, so that he will modify and send.
Resolution	As per the suggestions made by Dr.Arish Quantum Machine Learning Syllabus will be forwarded to him. The member approved the other two industry suggested

S. No	Course Code	Course Title	L	T	P	C
1	10212CS278	Quantum Machine Learning	3	0	2	4
2	10212CS279	Application Development And Maintenance	3	0	2	4
3	10212CS280	Low code Development	1	0	2	2
4	10212CS281	Intelligent Internet of Things	3	0	2	4
5	10212CS282	Robotics & Automation	3	0	2	4
6	10212CS283	Industrial Automation	3	0	0	3

|	
	courses. The Same will be offered during the Summer Semester 2025-2026. Course Content is available in (Annexure-VI)
7.	To discuss and approve the revision of courses under Program Elective category in various specialization for existing B.Tech CSE under the regulations VTR UGE 2021 and to be offered during the Summer Semester 2025-2026.
Discussion	The Chair presented the revision of courses done under the Program Elective Category to be offered under various specialization for existing B.Tech CSE <table><tr><td>S. No</td><td>Course Code</td><td>Course Title</td><td>L</td><td>T</td><td>P</td><td>C</td></tr><tr><td>1</td><td>10212CS277</td><td>Deep Learning</td><td>3</td><td>0</td><td>2</td><td>4</td></tr></table> Members suggested to include PyTorch Framework in the Laboratory Tasks.
Resolution	The suggestions made by the members will be incorporated and the same will be offered during the Academic Year 2025-2026. Course Content is available in (Annexure –VII)
8	To discuss and approve the **Value-added Courses to be** offered during the Summer Semester of academic year 2025-2026 for B.Tech CSE programme.
Discussion	The Chairman presented the Value added Courses to be offered for B.Tech CSE for Skill enhancement and Employment opportunities under the regulation VTR UGE 21 during the Summer Semester of academic year 2025-2026.
Resolution	Experts approved the **Value added Courses** to be offered during Summer Semester of academic year 2025-2026. Course Content is available in (Annexure-VIII)
9	To discuss and approve the new courses under Program Elective category, to be offered in following PG programmes during the Summer Semester 2025-2026 under the regulation VTR PGE 2023 (Annexure-IX) **M.Tech -CSE** a) 20232CS105 Image Processing Technique **M.Tech – BDA** a) 20232CS103 - Medical Image Processing
Discussion	The Chair presented the new courses under the Program Elective Category to be offered in the PG programmes during the Summer Semester 2025-2026 under the regulation VTR PGE 2023.
Resolution	The members approved the courses and the same will be offered during the Summer Semester 2025-2026. Course Content is available in (Annexure-IX)
D. Item for Ratification	
10.	To ratify the courses offered by **Industry Experts** for B.Tech CSE for **Skill enhancement and Employment opportunities** under Industry/Higher Institute Interaction Learning Category during the Winter Semester of academic year 2024-2025 for B.Tech CSE.
Discussion	The Chairman presented the courses offered by **Industry Experts** for B.Tech CSE for **Skill enhancement and Employment opportunities** under

	Industry/Higher Institute Interaction Learning Category during the **Winter Semester of academic year 2024-2025** for B.Tech CSE
Resolution	Experts ratified the courses offered by **Industry Experts** for B.Tech CSE for **Skill enhancement and Employment opportunities** under Industry/Higher Institute Interaction Learning Category during the **Winter Semester of academic year 2024-2025** for B.Tech CSE. Course Content is available in [Annexure-X]
11.	To discuss and approve the list of courses to be offered for Ph.D Research scholars.
Discussion	The Chair presented the list of courses to be offered for Ph.D Research scholars.
Resolution	The members discussed and approved the list of courses. (Annexure-XI)
12.	To ratify the new courses under Program Elective category, offered in following PG programmes during the Winter Semester 2024-2025 under the regulation VTR PGE 2023 **M.Tech -CSE** 20232CS209 Quantum Computing
Discussion	The Chair presented the new courses offered under the Program Elective Category for M.Tech CSE during the Winter Semester 2024-2025 under the regulation VTR PGE 2023.
Resolution	The members ratified the course offered under the Program Elective Category for M.Tech CSE during the Winter Semester 2024-2025. Course Content is available in (Annexure-XII)
13.	Any other cognate item
Discussion	The Chair presented the various new stakeholder feedback formats to the members for their suggestions. 1. Employer / External Project Expert 2. Students 3. Alumni 4. Parents 5. Industry Experts 6. Academic Faculty Experts
Resolution	The members suggested to give some space for writing comments. For respective questions. The formats are available in (Annexure-XIII)

ANNEXURE - I

Confirmation of 40th BoS meeting minutes held on 30.12.2024.

8th MEETING of BOARD of STUDIES

Minutes

for
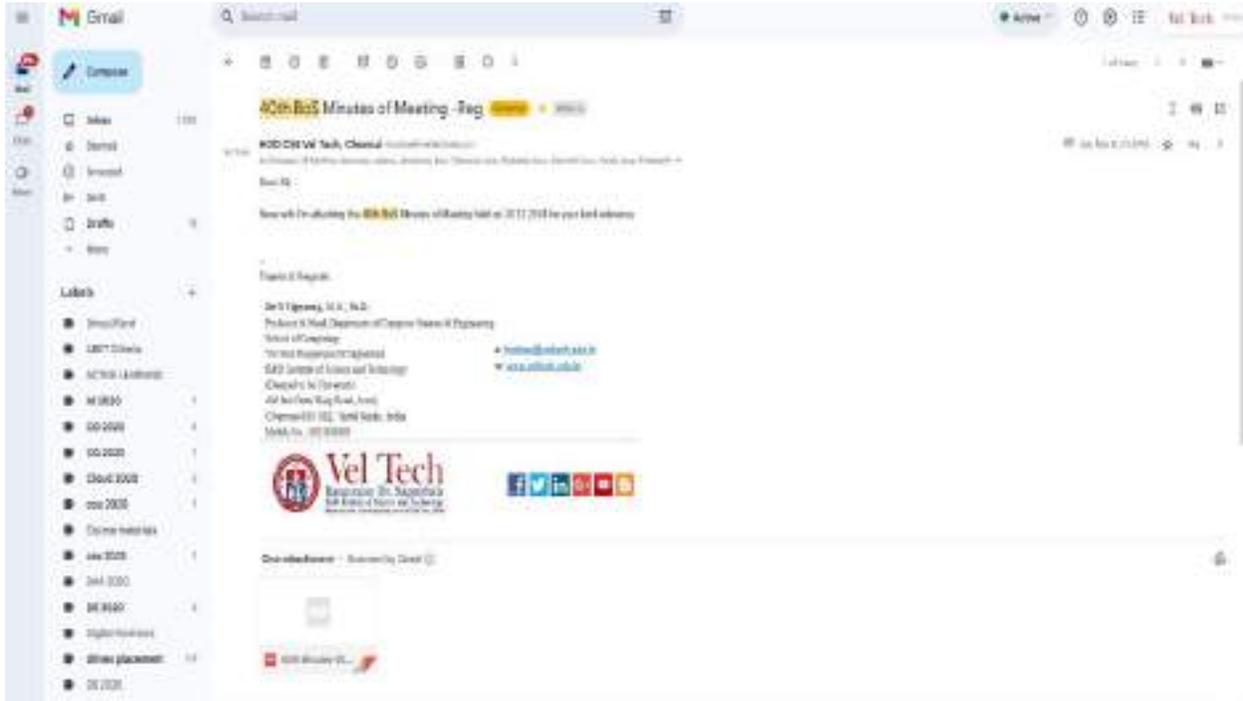
B.Tech Computer Science and Design Programme

[CBCS]

On

26.04.2025

B.Tech Computer Science and Design

School of Computing

Department of Computer Science and Design
School of Computing
8th MEETING of BOARD of STUDIES
For
B.Tech Computer Science and Design
Index

8th MEETING of BOARD of STUDIES
For
B.Tech Computer Science and Design

Date: 26.04.2025
Venue: SoC Block

AGENDA

Item No	Agenda
A. Opening	
1.	**Confirmation** of 7th BoS meeting minutes held on 12.07.2024
2.	To review the **Action Taken Report** on the minutes of the 7th meeting of the Board of Studies
B. Items to be considered	
3.	To **discuss** and **approve** the new curriculum design keeping in view of National Education Policy (NEP) 2020, ACM IEEE, AICTE Model Curriculum, NASSCOM and Digital India Skills
4.	To **discuss** the **stakeholders feedback** on curriculum of B.Tech Computer Science and Design taken for the academic year Winter 2024-2025
C. Items to be ratified	
5.	To **ratify** the course offered by Industry Experts for B.Tech CSD for Skill enhancement and Employment under the Industry/Higher Institute Interaction Learning category during Winter Semester 2024- 2025 <table><tr><th>S. No</th><th>Course Code</th><th>Course Name</th><th>L</th><th>T</th><th>P</th><th>C</th></tr><tr><td>1.</td><td>10215CD958</td><td>Design Thinking Computer Science Perspective</td><td>1</td><td>-</td><td>-</td><td>1</td></tr><tr><td>2.</td><td>10215CD968</td><td>IT Project Delivery Essentials: From Concept to Completion</td><td>1</td><td>-</td><td>-</td><td>1</td></tr><tr><td>3.</td><td>10215CD966</td><td>Structured Problem Solving Skills</td><td>1</td><td>-</td><td>-</td><td>1</td></tr></table>
6.	Any other cognate item To **present** the revised Stakeholders feedback

School of Computing
8th MEETING of BOARD of STUDIES
for
B.Tech Computer Science and Design

Date: 26.4.2025
Venue: SoC Block

Members Present:

S. No	Name and Designation	Nominee	Signature
1	Dr. SP. Chokkalingam, Professor, Dean (SoC)	Chairperson	
2	Dr. C. Mala Professor Department of Computer Science Engineering NIT, Tiruchirapalli, Tamil Nadu	Academic Expert Nominee	
3	Dr. Komondoor V.Raghavan Associate Professor Department of Computer Science and Automation Indian Institute of Science, Bangalore, Karnataka	Academic Expert Nominee	
4	Mr. Sivaprakasam Perumal Software Engineer, Hewlett-Packard Enterprise, Chennai, Tamil Nadu	Industry Expert Nominee	
5	Mr. E. Sunil, Assistant General Manager, ATRIA Convergence Technologies Ltd, T.Nagar, Chennai, Tamil Nadu	Industry Expert Nominee	
6	Ms. Malini Consultant- Data Analytics Det Norske Veritas (DNV)	Alumni	
7	Dr. M. Kavitha, Professor	Professor Nominee	
8	Dr. G. Govinda Rajulu, Professor	Professor Nominee	
9	Dr. R. Parthasarathy, Associate Professor and Head – CSD	Associate Professor Nominee	
10	Dr. J. Kavitha, Associate Professor	Associate Professor Nominee	
11	Dr. R. M. Dilip Charan, Associate Professor	Associate Professor	

S. No	Name	Designation	Signature
		Nominee	
12	Dr. M. Kalaimani, Assistant Professor	Assistant Professor Nominee	
13	Mr. V. Karthikeyan, Assistant Professor	Assistant Professor Nominee	
14	Ms. Poola Venkata Chinmayee	Student Nominee Batch: 2022-2026	
15	Ms. S. Abi Ayswariya	Student Nominee Batch: 2022-2026	

Invited Members

S. No	Name	Designation	Signature
1.	Dr. V. Dhilip Kumar	Professor and Associate Dean – SoC	
2.	Dr. N. Vijayaraj	Professor and Head - CSE	
3.	Dr. M. S. Murali Dhar	Associate Professor and Assistant Head – CSE	
4.	Dr. J. Visumathi	Professor and Head – IT	
5.	Dr. S. Alex David	Professor and Head – AI&ML	
6.	Dr. P. Santhi	Professor and Head – AI&DS	
7.	Dr. T. Rajendran	Associate Professor – Head – CSE (CS)	
8.	Dr. S. Lalitha	Associate Professor – Head – CSE (AIML)	
9.	Dr. M. Gokuldhev	Associate Professor – Head – CSE (DS)	
10.	Dr. R. Aruna	Professor and Head – PG Programme	

Minutes of the Meeting

The Chair expressed his happiness in welcoming all the members for the 8th meeting of BOS and thanked them for sparing their valuable time.

08-BoS-01	Confirmation of 7th BoS meeting minutes held on 14.12.2024
Action Taken:	The minutes of 7th BoS meeting minutes held on 14.12.2024 was circulated to members through e-mail, the members confirmed the minutes. [Annexure - I]
08-BoS-02	To review the Action Taken Report on the minutes of the 7th meeting of the Board of Studies
Resolution	The members reviewed the action taken report on the decisions of 7th BoS meeting minutes held on 14.12.2024 [Annexure - II]
08-BoS-03	To discuss the Stakeholders feedback on curriculum of B.Tech Computer Science and Design taken for the academic year Winter 2024-2025
Resolution	The members reviewed the stakeholders feedback on curriculum of B.Tech Computer Science and Design [Annexure - III]
08-BoS-04	To discuss and approve the new curriculum design for B.Tech Computer Science and Design under the Regulation 2025
Discussion	The members reviewed the new curriculum design and Prof. Dr. C. Mala suggested not to provide more than three labs per semester and Mr. Sunil, Industry Expert suggested to add program elective courses like Cloud Computing and Data Centric Technology
Resolution	As per the experts suggestion, the Regulation 2025 courses list will be prepared
08-BoS-05	To ratify the course offered by Industry Experts for B.Tech CSD for Skill enhancement and Employment under the Industry/Higher Institute Interaction Learning category during Winter Semester 2024- 2025
Discussion	Experts reviewed the courses offered by Industry Experts for B.Tech Computer Science and Design for Skill enhancement and Employment opportunities under Industry/Higher Institute Interaction Learning Category during the Winter 2024-2025 for B.Tech Computer Science and Design
Resolution	The members ratified the courses offered by Industry Experts for B.Tech Computer Science and Design for Skill enhancement and Employment opportunities under Industry/Higher Institute Interaction Learning Category during the Winter 2024-2025 for B.Tech Computer Science and Design [Annexure - V]
08-BoS-06	Any other Cognate Item To **present** the revised Stakeholders feedback Next BoS Meeting Date
Discussion	Experts reviewed the revised the stakeholder feedback and suggested to add the rating with the number rather than the specified category

Resolution	The Experts suggestions will be taken forward to the knowledge of the office of the Dean Academics and the next BoS meeting will be conducted in the month of December 2025

6th MEETING of BOARD of STUDIES

Minutes

for

B.Tech Computer Science and Engineering

(Cyber Security)

Programme

[CBCS]

On

10.05.2025

School of Computing
Department of Computer Science and Engineering
(Cyber Security)

Department of Computer Science and Engineering (Cyber Security)
School of Computing

6th MEETING of BOARD of STUDIES

Index

Department of Computer Science and Engineering (Cyber Security)

School of Computing

6th MEETING of BOARD of STUDIES

For
B.Tech. Computer Science and Engineering (Cyber Security)

Date: 10.05.2025   Venue: School of Computing, Block 33
Time: 11.00 AM

AGENDA

Item No	Agenda
	A. Opening
1.	Confirmation of 5th Board of Studies meeting minutes held on 14.12.2024 **(Annexure-I)**
2.	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies **(Annexure-II)**
	B. Items to be considered
3.	To discuss and approve the **new curriculum structure** for B.Tech. CSE (Cyber Security) **Regulation 2025 VTR UGE25** (Annexure-III)
4.	To discuss and approve the new **Program Electives** proposed in this BoS as per the list attached, to be offered in the programme B.Tech. Computer Science and Engineering (Cyber Security) under the regulation VTR UGE 2021 with effect from Summer Semester 2025-2026. **(Annexure-IV)**

S.No	Course Code	Course Name	L	T	P	C
1	10212CC230	Forensics in Cyber Security	3	0	2	4
2	10212CC232	Vulnerability Analysis and Penetration Testing	3	0	2	4

Item No	Agenda
5.	To discuss and approval of Online MOOCs platform course under **Program Elective and Open Elective category** under regulation VTR UGE 2021 with effect from Summer Semester 2025-26 (**Annexure-V**) **Program Elective category** 	S.No.	Course Code	Course Name	Course Provider	Duration in weeks	Credits
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1.	10212CC403	Privacy and Security in Online social media	NPTEL	12	3
2.	10212CC404	Introduction to Machine learning	NPTEL	12	3
3.	10212CC405	Secure Computation: Part I	NPTEL	12	3 | **Open Elective category** | S.No.	Course Code	Course Name	Course Provider	Duration in weeks	Credits
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1.	10213CC404	Foundations of Cryptography	NPTEL	12	3
2.	10213CC405	Computer Networks and Internet Protocol	NPTEL	12	3
3.	10213CC406	Information Security - 5 - Secure Systems Engineering	NPTEL	8	2	
6.	To discuss the **feedback on curriculum** of B.Tech. Computer Science and Engineering (Cyber Security) taken for the academic year 2024-2025. (**Annexure-VI**)
7.	Ratification of Industry / Higher Institute Learning Interaction (IHL) Courses offered in Winter Semester 2024-25. (**Annexure – VII**) 	S.No.	Course code	Course Name	L	T	P	C
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1	10215CC952	Cloud Security	1	0	0	1
2	10215CC953	Cyber Threat Intelligence using Splunk	1	0	0	1	
8.	To Present the Revised Stakeholders Format. (**Annexure-VIII**).
9.	Any other cognate item

School of Computing

6TH MEETING OF BOARD OF STUDIES

For

B.Tech. Computer Science and Engineering (Cyber Security)

Date: 10.05.2025
Timings: 11:00 AM – 12.30 PM
Venue: 33023, School of Computing, Block-33

Members Present:

Sl.No.	Name and Designation	Nominee	Signature
1	Dr. S.P. Chokkalingam Professor and Dean, School of Computing Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology.	Chairperson	
2	Dr. Sibi Chakkaravarthy Sethuraman Associate Professor & Research Head - AI, VIT-AP University, Andhra Pradesh	Academic Expert Nominee	
3	Mr. Vinod Senthil, CEO, InfySec, Chennai, Tamil Nadu	Industry Expert Nominee	—
4	Mr. Anupam Mathur, Software Engineer, CISCO, Bengaluru.	Alumni	
5	Dr.V.Dhilipkumar Professor and Associate Dean, School of Computing, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Professor Nominee	
6	Dr.M.Kavitha, Professor, Department of CSE, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Professor Nominee	
7	Dr.R.Srinivasan Professor, Department of CSE, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology.	Professor Nominee	
8	Dr. Rajendran T, Professor & Head, Department of CSE (Cyber Security), Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Professor Nominee	

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R&D Institute of Science and Technology
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CATEGORY-1
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UGC

Sl.No.	Name and Designation	Nominee	Signature
9	Dr.T. Kamaleshwar Associate Professor, Department of CSE, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Associate Professor Nominee	
10	Dr.S.Ramamoorthi Assistant Professor (SG), Department of CSE(Cyber Security), Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
11	Dr.R.Saranya Assistant Professor, Department of CSE(Cyber Security), Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
14	Mohib Rasool VTU 23503, Batch 22-26 Department of CSE(Cyber Security), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Student Nominee	
15	Matta Santhi VTU23503, Batch 22-26 Department of CSE(Cyber Security), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Student Nominee	

Invited Members

S.No	Name and Designation	Signature
1	Dr. N. Vijayaraj Professor & Head CSE	
2	Dr. J. Visumathi, Professor & Head IT	— A B —
3	Dr. S. Alex David Professor & Head AI& ML	
4	Dr. R. Aruna Professor & Head PG	
5	Dr. P. Shanthi Professor & Head AI & DS	
6	Dr. M S. Muralidhar Professor & Asst. Head CSE	
7	Dr. R. Parthasarathy Professor and Head of CSD	
8	Dr. M. Gokuldhev Professor & Head of CSE (Data Science)	
9	Dr.S.Lalitha Associate Professor & Head CSE(AIML)	
10	Dr. D. Sundara Narayanan Associate Professor, Department of CSE	
11	Dr .K. Prema Assistant Professor (SG) , Department of CSE	

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
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Avadi, Chennai-600062, Tamil Nadu, India

Invited Members

S.No	Name and Designation	Signature
1.	Dr. S. Priya AP(SG)	
2.	S.A Mohammed Uvaise /AP	
3.	Dr. M. Mohamed Sathik / AP(sen)	
4.	TV. Abirami / AP	
5.	B. Aishwarya	
6.	P. Boopraksf	
7.	Dr. N. Gomath	

Minutes of the Meeting

The Chair expressed his happiness in welcoming all the members for the 6th meeting of BOS and thanked them for sparing their valuable time.

06-BoS-01	Confirmation of 5th BoS meeting minutes held on14.12.2024
Action Taken	Chairman of BoS presented the confirmation of 5th BoS meeting minutes held on 14.12.2024 in the programme B.Tech Computer Science and Engineering (Cyber Security) under the regulation VTR UGE 2021. **(Annexure-I)**
06-BoS-02	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies.
Action Taken	Chairman of BoS presented the action taken report on the 5th BoS meeting minutes held on 14.12.2024 in the programme B.Tech Computer Science and Engineering (Cyber Security) under the regulation VTR UGE 2021. **(Annexure-II)**
06-BoS-03	Discussion and Approval of the New Curriculum Structure for B.Tech. CSE (Cyber Security) – Regulation 2025
Action Taken	1. The Chairman BoS presented the proposed **new curriculum structure** for the B.Tech. Computer Science and Engineering (Cyber Security) program under Regulation 2025. The structure outlined in **Annexure-III** has been developed in alignment with the latest industry standards, academic benchmarks, and NEP 2020 guidelines. The Board is requested to review, discuss, and grant approval for implementation starting from the academic year 2025-26. 2. The curriculum has been reviewed by the Board of Studies (BoS) Experts, and the following suggestions were made in Program Core Category to include Secure Coding and Big Data Analytics as a core subject to strengthen foundational security practices and to address emerging data analysis needs in cybersecurity. Then the Program Elective Course Category they suggest to include API Security and Cloud Security as elective subjects to broaden the scope of specialized security domains. 3. During the discussion, the Board of Studies (BoS) experts recommended that the course **"Ethical Hacking"** to be moved from the Program Elective category to the Program Core, conversely, the course **"Software Project Management"** was shifted from Program Core to Program Elective to allow students greater flexibility in

	selecting domain-specific electives that align with their academic interests and career aspirations.
Resolution	The suggestions provided by the members have been incorporated into the curriculum, and the curriculum structure for Regulation 2025 has been approved. **(Annexure-III)**
06-BoS-04	To discuss and approve the new **Program Elective Courses** proposed in this Board of Studies (BoS) meeting, as listed in Annexure-IV**.** These electives are to be offered under the B.Tech. Computer Science and Engineering (Cyber Security) programme in accordance with Regulation VTR UGE 2021, effective from the **Summer Semester of the academic year 2025–2026.**
Discussion	1. The Chairman of the Board of Studies (BoS) presented the proposal to introduce new **Program Elective Courses** as detailed in Annexure-IV. These electives are to be offered under the B.Tech. Computer Science and Engineering (Cyber Security) programme as per Regulation VTR UGE 2021, with effect from the Summer Semester of the academic year 2025–2026. 2. An expert from the Board of Studies highlighted that in the subject **"**Forensics in Cyber Security", under Unit 3, the topic *"*Creating a forensic duplicate of a hard drive" may be removed, as the concept has already been covered in a previous module. 3. The experts suggested modifying the course title *"*Vulnerability Analysis and Penetration Testing*"* to **"Vulnerability Management and Penetration Testing"**, as the current course content predominantly focuses on vulnerability-related topics. It was noted that only one unit addresses penetration testing, while the remaining four units are dedicated to vulnerability concepts and management. The revised title would more accurately reflect the course content and learning outcomes
Resolution	The suggestions provided by the members have been incorporated and the members approved the courses under the Program Elective category during the Summer Semester 2025**-** 26**. (Annexure-IV**)
06-BoS-05	To discuss and approval of Online MOOCs platform course under Program Elective and Open Elective Category under regulation VTR UGE 2021 with effect from Summer Semester 2025-26. (**Annexure-V**)
Discussion	The Chairman of the Board of Studies (BoS) presented the proposed **Online MOOCs platform courses** to be offered under the **Program Elective** and **Open Elective**

	Categories for the B.Tech. Computer Science and Engineering (Cyber Security) program, as per Regulation VTR UGE 2021, with effect from the Summer Semester of 2025-2026. Under the Program Elective Category, the following courses were proposed: Privacy and Security in Online social media, Introduction to Machine Learning, and Secure Computation. Additionally, under the Open Elective Category, the following courses were introduced: Foundations of Cryptography, Computer Networks and Internet Protocol, and Information Security - 5: Secure Systems Engineering.
Resolution	The members approved the proposed **Online MOOCs platform courses** under the **Program Elective** and **Open Elective Categories** for the B.Tech. Computer Science and Engineering (Cyber Security) program, effective from the Summer Semester of 2025-2026. (**Annexure-V)**
06-BoS-06	To discuss the feedback on curriculum of B.Tech. Computer Science and Engineering (Cyber Security) taken for the academic year 2024-2025. (**Annexure-VI)**
Discussion	The Chairman of the Board of Studies (BoS) presented the **stake holders feedback** on the curriculum of the B.Tech. Computer Science and Engineering (Cyber Security) program, gathered for the academic year 2024-2025, as outlined in Annexure-VI.
Resolution	The members accepted the stake holders feedback on the curriculum of the B.Tech. Computer Science and Engineering (Cyber Security) program, gathered for the academic year 2024-2025. (**Annexure-VI)**
06-BoS-07	To discuss and ratification of Industry / Higher Institute Learning Interaction (IHL) Courses offered in Winter Semester 2024-25. (**Annexure – VII)**
Discussion	The Chairman of the Board of Studies (BoS) presented the Cloud Security and Cyber Threat Intelligence using Splunk courses, which are part of the Industry/Higher Institute Learning Interaction (IHL) Courses, offered during the Winter Semester 2024-25.
Resolution	The members ratified the Cloud Security and Cyber Threat Intelligence using Splunk courses, which are part of the Industry/Higher Institute Learning Interaction (IHL) Courses, offered during the Winter Semester 2024-25.

06-BoS-08	To present and discussion on the Revised Stakeholders Format. (**Annexure-VIII**).
Discussion	The Chairman of the Board of Studies (BoS) presented the revised stakeholder feedback format**,** which includes inputs from employers, students, alumni, parents, industry experts, and academic experts**.**
Resolution	The Board of Studies (BoS) approved the revised stakeholder feedback format**,** incorporating structured input from employers, students, alumni, parents, industry experts, and academic experts**,** to ensure comprehensive and continuous curriculum improvement.
06-BoS-09	Any other Cognate Item
Discussion	The Board of Studies (BoS) experts appreciated the overall curriculum structure of the B.Tech. Computer Science and Engineering (Cyber Security) program and expressed their support and encouragement for its effective implementation**.** The next **Board of Studies (BoS)** meeting will be held in the month of **December 2025**.

6ᵗʰ MEETING of BOARD of STUDIES

Minutes

for

B.Tech Computer Science and Engineering

(Artificial Intelligence and Machine Learning)

Programme

[CBCS]

On

28.04.2025

B.Tech Computer Science and Engineering

(Artificial Intelligence and Machine Learning)

School of Computing

6th MEETING of BOARD of STUDIES
For
B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Date: 28.04.2025   **Time: 02.00 pm**
Venue: 33023

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B.Tech Computer Science and Engineering

(Artificial Intelligence and Machine Learning)

School of Computing

6th MEETING of BOARD of STUDIES
For
B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Date: 28.04.2025
Time: 02.00 pm
Venue: 33023

AGENDA

Item No	Agenda
A.	**Opening**
1.	Confirmation of 5th BoS meeting minutes held on 19.12.2024 (**Annexure-I**)
2.	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies (**Annexure-II**)
B.	**Items to be considered**
3.	To **discuss** and **approve** the new curriculum design keeping in view of National Education Policy (NEP) 2020, ACM IEEE, AICTE Model Curriculum, NASSCOM and Digital India Skill for B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) Regulation 2025 (**Annexure-III**)

Item No	Agenda						
4.	To discuss and approve the **new course and course contents to be offered under Program Elective** category for the B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) programme under the regulation VTR UGE 2021 with effect from Summer Semester 2025 -2026. (**Annexure-IV**)						
	Sno	**Course code**	**Course Name**	**L**	**T**	**P**	**C**
	1	10212CA216	Natural Language Processing	3	0	2	4

Item No	Agenda				
5.	To discuss and approve the **new course and course contents to be offered under Program Elective** and **Open Elective** category in MOOC Platform for the B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) programme under the regulation VTR UGE 2021 with effect from Summer Semester 2025-2026. (**Annexure-V**)				
	Program Elective category				
	S.No.	**Course Code**	**Course Name**	**Course Provider**	**Duration in weeks**	**Credits**
	1	10212CA406	Cloud Computing	NPTEL	12	3
	2	10212CA407	Block Chain and its Applications	NPTEL	12	3

		Open Elective category			
S.No.	**Course Code**	**Course Name**	**Course Provider**	**Duration in weeks**	**Credits**
1	10213CA409	Introduction to Soft Computing	NPTEL	8	2
2	10213CA410	Machine Learning for Engineering and Science Applications	NPTEL	12	3

6.	To discuss the Stakeholders feedback on curriculum of B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) taken for the Winter Semester 2024-25 (**Annexure-VI**).

7.	To ratify the value added courses offered in Winter Semester 2024 - 25 for B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) under the regulation VTR UGE 2021. (**Annexure-VII**)

Sno	Course code	Course Name	L	T	P	C
1	10218CA905	Deep Learning with Python	3	0	0	0
2	10218CA924	Comptia it Fundamentals: Operating Systems	3	0	0	0
3	10218CA928	Design 3.0 : Design Life Cycle	3	0	0	0
4	10218CA973	Data Structures and Algorithms in Python	3	0	0	0
5	10218CA906	Computer Vision 101	3	0	0	0
6	10218CA985	Software Testing – Testing Techniques	3	0	0	0
7	10218CA941	Java Programming Fundamentals	3	0	0	0
8	10218CA925	Computer Assembling & Troubleshooting	3	0	0	0

8.	Any other cognate item To discuss and approve the new format of Stakeholders feedback on Curriculum. (**Annexure-VIII**)

Members Present:
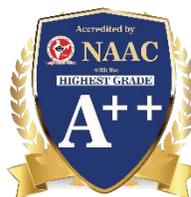
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Avadi, Chennai-600062, Tamil Nadu, India

School of Computing
6th MEETING of BOARD of STUDIES
For
B.Tech Computer Science and Engineering
(Artificial Intelligence and Machine Learning)

Date: 28.04.2025 – 02:00 pm
Venue: 33023

Members Present:

S.No.	Name and Designation	Nominee	Signature
1.	Dr.S.P.Chokkalingam Chairman Dean, School of Computing Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Chairperson	
2.	Dr.S.R.Sudarshan Iyengar Associate Professor and Head, CSE, IIT, Ropar, Punjab.	Academic Expert Nominee	ONLINE
3.	Dr. Manoj B Chandak Dean Academics and Professor, Department of CSE, Shri Ramdeobaba College of Engineering and Management, Nagpur.	Academic Expert Nominee	ONLINE
4.	Dr Dharhuneshwer Senior Data Scientist, Wallmart, Chennai, Tamil Nadu.	Industry Expert Nominee	S.J
5.	Mr. Muthukumar V Project Manager, Infosys, Chennai, Tamil Nadu.	Industry Expert Nominee	ABSENT

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6.	Mr. Sai Srinivas Vara Prasad Korlam, VTU 17342, B.Tech CSE Network Consulting Engineer - Cisco Systems India, Bengaluru.	Alumni	
7.	Dr. S. Lalitha Associate Professor & Head Department of CSE(AI & ML), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Associate Professor Nominee	
8.	Dr.V.Dhilipkumar Professor & Associate Dean, Department of CSE, School of Computing Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Professor Nominee	
9.	Dr.M. Kavitha Professor, Department of CSE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Professor Nominee	ABSENT
10.	Dr.M.S.Murali Dhar Professor & Assistant Head Department of CSE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Professor Nominee	

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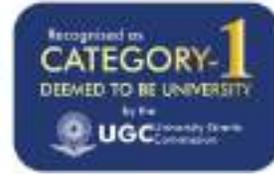
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11.	Dr.T.M.Thiyagu Associate Professor, Department of CSE(AI & ML), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Associate Professor Nominee	T.m.Thiqu
12.	Mrs.D.Mangaiyarkarasi Assistant Professor, Department of CSE(AI & ML), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Assistant Professor Nominee	D.M
13.	Habeeb Rahman K.T. VTU22336,Batch 22-26 Department of CSE(AI & ML), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Student Nominee	Habeeb
14.	V.V.S.Lakshmi Mokshitha VTU21712,Batch 22-26 Department of CSE(AI & ML), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.	Student Nominee	V.T.luth

Invited Members

S.No	Name and Designation	Signature
1.	Dr. N. Vijayaraj Professor & Head, CSE, Vel Tech.	
2.	Dr. P. Santhi Professor & Head, AI&DS, Vel Tech.	
3.	Dr. S. Alex David Professor & Head, AI&ML, Vel Tech.	
4.	Dr. R. Parthasarathy Professor & Head, CSD, Vel Tech.	
5.	Dr. T. Rajendran Professor & Head, CSE(CS), Vel Tech	
6.	Dr. Gokuldhev Professor & Head, CSE(DS), Vel Tech	
7.	Dr. J. Visumathi Professor & Head , Department of IT, Vel Tech	

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)
Avadi, Chennai-600062, Tamil Nadu, India

Invited Members

S.No	Name and Designation	Signature
1.	M. THIYAGARAJAN	M.
2.	Mrs. B.T. Thivya Dakchini	B.T.
3.	Ms. J. RAMALA	
4.	Mrs. A SATHYA	A Sathy

Dean – SoC

Sf. Chokkalingam
Dean,
School of Computing

Vel Tech

Vice Chancellor

Minutes Of the Meeting

The Chair expressed his happiness in welcoming all the members for the 6th meeting of BOS and thanked them for sparing their valuable time.

06-BoS-01	Confirmation of 5th BoS meeting minutes held on 19.12.2024.
Action taken	Chairman BoS presented the confirmation of 5th BoS meeting minutes held on 19.12.2024 in the programme B.Tech Computer Science and Engineering (Artificial Intelligence & Machine Learning) under the regulation VTR UGE 2021. **(Annexure-I)**
06-BoS-02	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies.
Action Taken	Chairman BoS presented the action taken report on the 5th BoS meeting minutes held on 19.12.2024 in the programme B.Tech Computer Science and Engineering (Artificial Intelligence & Machine Learning) under the regulation VTR UGE 2021. **(Annexure-II)**
06-BoS-03	To **discuss** and **approve** the new curriculum design keeping in view of National Education Policy (NEP) 2020, ACM IEEE, AICTE Model Curriculum, NASSCOM and Digital India Skill for B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) Regulation 2025.
Discussion	Dr. S. R. Sudarshan Iyengar, Associate Professor and Head, CSE, IIT, Ropar, suggested to give 160 credits instead of 165 credits to in line with the curriculum of National Importance Universities. In that 60% should be the Program Core and 40% should include Electives, Minor Project, Major Project, Self-learning and Hackathons. The members also suggested to refer ACM IEEE guidelines for the subject distribution and Prerequisite to initiate the development of an NEP-based curriculum and syllabus. The industry expert member suggested to add System Design and API fundamentals in the Program Core.
Resolution	The new curriculum design of B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) Regulation 2025 were framed based on the Computer science Curricula 2023 by ACM IEEE guidelines. The reduction of credit from 165 to 160 will be communicated to the Dean Academics for further discussion. The members approved the new curriculum design. **(Annexure-III)**
06-BoS-04	To discuss and approve the **new courses and course contents to be offered under Program Elective** category for the B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) programme under the regulation VTR UGE 2021 with effect from Summer Semester 2025 - 2026.
Discussion	Chairman BoS presented the Program Elective Course to be offered in Summer 2025-2026. Experts suggested to include the topics like LLM and Transformers in the Natural Language Processing.
Resolution	The members approved the courses and course contents of Program Elective courses to be offered in the programme B.Tech Computer Science and Engineering (Artificial Intelligence & Machine Learning) under the regulation VTR UGE 2021 with effect from 2023-2024. The changes given by the BoS members will be incorporated in the forthcoming curriculum Revision. Course details are shown in **(Annexure-IV)**

06-BoS-05	To discuss and approve the **new course and course contents to be offered under Program Elective** and **Open Elective** category in MOOC Platform for the B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) programme under the regulation VTR UGE 2021 with effect from Summer Semester 2025-2026.
Discussion	Chairman BoS presented the Program Elective Course like Cloud Computing, Block Chain and its Applications, Introduction to Soft Computing and Machine Learning for Engineering and Science Applications were presented to the members.
Resolution	**The members approved the Program Elective Courses, Open Elective Courses and course contents offered under MOOC category during Summer semester 2025-2026. (Annexure-V)**
06-BoS-06	To discuss the **feedback on curriculum** of B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) taken for the Winter semester 2024-2025.
Discussion	The members reviewed the action taken based on Stakeholder`s feedback on curriculum of B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) for the Winter semester 2024-2025.
Resolution	The members approved the courses included in the curriculum under various category based on the Stake holder feedback analysis for the Summer semester 2025-2026. (**Annexure- VI**).
06-BoS-07	To ratify the value added courses offered in Winter Semester 2024 - 25 for B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) under the regulation VTR UGE 2021.
Resolution	**The members ratified the value added course offered during Winter Semester 2024-2025. (Annexure-VII)**
06-BoS-08	Any other cognate item To discuss and approve the new format of Stakeholders feedback on Curriculum. **(Annexure-VIII)**
Discussion	The members suggested to consider only 3 parameters like High / Moderate / Low in the responses.
Resolution	The members approved the new format of Stakeholders feedback analysis on Curriculum. The suggestions will be communicated to the office of the Dean Academics for further discussion. The next *Board of Studies (BoS)* meeting will be held in the month of *December 2025*.

6th MEETING of BOARD of STUDIES

Minutes

for

B. Tech

Computer Science and Engineering (Data Science)

[CBCS and NEP 2020]

On

25.04.2025

B. Tech Computer Science and Engineering (Data Science)

School of Computing

6th MEETING of BOARD of STUDIES

Date : 25.04.2025
Time : 3.00 pm
Venue : 33023

Index

B. Tech Computer Science and Engineering (Data Science)

School of Computing

6th MEETING of BOARD of STUDIES
For
B. Tech Computer Science and Engineering (Data Science)

Date : 25.04.2025
Time : 3.00 pm
Venue : 33023

AGENDA

Item No.	Agenda
A. Opening	
1	Confirmation of 5th BoS meeting minutes held on 13.12.2024 (**Annexure-I**)
2	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies (**Annexure-II**)
B. Items to be considered	
3	To discuss and approve the **curriculum structure** for B.Tech Computer Science and Engineering (Data Science) **VTR UGE 2025** (**Annexure-III**)
4	To discuss and approve the new course and course contents to be offered under Program Elective category for the B.Tech Computer Science and Engineering (Data Science) programme under the regulation VTR UGE 2021. (**Annexure-IV**)

S. No	Course Code	Course Name	L	T	P	C
1	10212DS215	Deep Learning	3	0	2	4

	Approval of Courses offered under the category of Industry / Higher Institute Learning Interaction (IHL) during Summer Semester 2025-26 (**Annexure-V**).

S.No	Course code	Course Name	L	T	P	C
1	10215DS###	Boot Camp on Cloud Computing	1	0	2	2

6	To discuss the Stakeholders feedback on curriculum of B.Tech CSE(DS) taken for the Winter Semester 2024-25 (**Annexure-VI**).
C. Other Items	
7	Any other cognate item

Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Computing
Department of CSE (Data Science)
6th Meeting of Board of Studies

Date : 25.04.2025

Time: 03.00 PM – 04.45 PM

Venue - 33023

Members Present

S.No.	Name and Designation	Nominee	Signature
1	Dr.S.P.Chokkalingam, Professor and Dean, School of Computing, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Chairman	
2	Dr. Rajendra Prasath, Associate Professor, IIIT, Sri City, Chittoor	Academic Expert Nominee	25/4/25
3	Dr. Dilip Singh Sisodia, Associate Professor, NIT, Raipur	Academic Expert Nominee	ONLINE
4	Mr. Kolla Ravikanth Yadav, Data Scientist, APAC Business Operations, Hyderabad	Industry Expert	ONLINE
5	Mr. Raghav Rajvanshi, Network Consulting Engineer - Cisco Systems, Pune.	Alumni Nominee	ONLINE
6	Dr. V. Dhilip Kumar, Professor & Associate Dean, School of Computing, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Professor Nominee	
7	Dr.M.Gokuldhev, Associate Professor and Head, Department of CSE (Data Science), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Associate Professor Nominee	

8	Dr.P.Jose, Associate Professor, Department of CSE (Data Science), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Associate Professor Nominee	
9.	Dr.G.Anurekha, Assistant Professor, Department of CSE (Data Science), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
10.	Dr.A.Prathik, Assistant Professor, Department of CSE, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Assistant Professor Nominee	
11.	Kavi Haneesh Kumar, III Year Department of CSE (Data Science), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Student Nominee	
12.	Muskan Kumari, III Year Department of CSE (Data Science), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology	Student Nominee,	
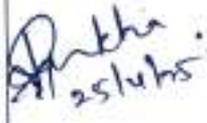
Invited Members

S.No	Name and Designation	Signature
1	Dr. M. Kavitha, Professor, CSE	
2	Dr. N. Vijayaraj, Professor & Head CSE	
3	Dr. J. Visumathi, Professor & Head IT	
4	Dr. S. Alex David Professor & Head AI& ML	
5	Dr. R. Aruna Professor & Head PG	
6	Dr. P. Shanthi Professor & Head AI & DS	
7	Dr. M S. Muralidhar, Associate Professor & Asst. Head CSE	
8	Dr. R. Parthasarathy, Associate Professor and Head of CSD	
9	Dr. T. Rajendran, Associate Professor and Head CSE(Cyber Security)	
10	Dr. S. Lalitha, Associate Professor & Head CSE(AIML)	

Minutes

The Chair expressed his pleasure in welcoming all members to the 6th meeting of BOS and thanked them for sparing their valuable time

06-BoS-01	Confirmation of 5th BoS meeting minutes held on 13.12.2024.
Action Taken:	The minutes of 5th BoS meeting minutes held on 13.12.2024 was circulated to members through e-mail, the members confirmed the minutes. **(Annexure -I)**
06-BoS-02	To review the Action Taken Report on the minutes of the 5th meeting of the Board of Studies.
Action Taken:	The members reviewed the action taken report on the decisions of 5th BoS meeting minutes held on 13.12.2024 **(Annexure - II).**
06-BoS-03	To discuss and approve the **curriculum structure** for B.Tech Computer Science & Engineering(Data Science)**VTR UER2025** (**Annexure-III**)
Discussion:	The members discussed the **curriculum structure** for B.Tech Computer Science & Engineering (Data Science) **VTR UER2025** and following suggestions were given regarding the curriculum structure. The committee members strongly emphasized the growing necessity of placing greater academic emphasis on internships, recognizing the evolving expectations of industries that increasingly demand graduates who are not only theoretically proficient but also practically equipped and industry-ready. It was recommended that the internship component be significantly enhanced to ensure it delivers meaningful hands-on experience, directly aligned with real-time industrial workflows, tools, and technologies. Members agreed that such exposure would bridge the gap between academic learning and professional practice, ultimately improving students' employability. Additionally, there was a consensus on the importance of establishing a well-structured and balanced credit distribution across all semesters. Members noted that students often experience academic burnout due to an overloaded course structure in specific semesters. Hence, the curriculum should be reviewed and restructured to promote a manageable and evenly distributed academic load throughout the program. This restructuring should also aim to incorporate more experiential learning, including laboratory sessions, industry-relevant projects, case studies, and practical modules, to cultivate robust technical and problem-solving skills. Regarding elective courses, domain experts suggested the introduction of advanced and emerging topics such as Data Science Fundamentals, Mathematical and Statistical Applications Integration within the Program Elective basket. These courses are expected to align with the evolving technological landscape and industrial demand. For the Open Elective category, the members recommended including introductory-level subjects such as Introduction to Artificial

Resolution	The members approved the inclusion of the proposed course in the Program Elective category to be offered during the Summer Semester, 2025-26, as part of the B.Tech Computer Science & Engineering (Data Science) curriculum. Detailed course descriptions, including duration and credits, are documented in (**Annexure-IV**).

06-BoS-04

To discuss and approval of course under Program Elective category under regulation VTR UGE 2021 with effect from Summer Semester 2025-26.

S. No	Course Code	Course Name	L	T	P	C
1	10212DS215	Deep Learning	3	0	2	4

Discussion: Under the Program Elective category, the inclusion of the course *Deep Learning (DL)* was discussed. Members acknowledged the relevance and importance of this course, especially in the context of emerging technologies and user-centric applications. The committee appreciated how such courses complement core Machine Learning subjects by emphasizing the human aspect of intelligent system design, thereby equipping students with a broader understanding of how to develop intuitive and accessible technology solutions. Understanding DL allows students to develop intuitive and accessible technologies, such as voice assistants and personalized recommendation systems. Integrating DL into the curriculum ensures that graduates possess both theoretical knowledge and practical skills, equipping them to tackle complex challenges in the evolving tech landscape.

Resolution The members approved the inclusion of the proposed course in the Program Elective category to be offered during the Summer Semester, 2025-26, as part of the B.Tech Computer Science & Engineering (Data Science) curriculum. Detailed course descriptions, including duration and credits, are documented in (**Annexure-IV**).

06-BoS-05

Approval of Courses offered under the category of Industry / Higher Institute Learning Interaction (IHL) during Summer Semester 2025-26 (**Annexure-V**).

S.No	Course code	Course Name	L	T	P	C
1	10215DS###	Boot Camp on Cloud Computing	1	0	2	2

	The members reviewed the proposed list of short-term courses to be offered under the **Industry / Higher Institute Learning Interaction (IHL)** initiative during the Summer Semester of 2025–26. These courses are designed to expose students to industry-relevant knowledge, tools, and practices in emerging areas such as Data Center Overview and Cloud Management and Monitoring. Members emphasized the need to strengthen the practical relevance of these offerings by facilitating structured interaction with industry professionals and subject-matter experts from reputed institutions. They recommended allocating dedicated time within the course schedule for expert sessions, real-world case discussions, and Q&A forums, which would allow students to gain firsthand insights into how theoretical concepts are applied in live industrial environments. Additionally, the importance of providing students with an early briefing about the objectives, scope, and structure of each course was highlighted. This would help students make informed enrolment decisions and better align their learning goals with industry expectations.
Resolution	The members approved the inclusion of the *Program* under the *Industry / Higher Institute Learning Interaction (IHL)* category for the Summer Semester 2025-26. (**Annexure-V**).
06-BoS-06	To discuss the Stakeholders feedback on curriculum of B.Tech Computer Science & Engineering (Data Science) taken for the Winter Semester 2024-25.
Discussion	The members reviewed the action taken based on Stakeholder`s feedback on curriculum of B.Tech Computer Science & Engineering (Data Science) for the academic year 2024-25 (Winter Semester).

13th MEETING OF BOARD OF STUDIES

Minutes

For

B.A.LL.B. (Hons.) and B.Com.LL.B. (Hons.)

On

24.04.2025

SCHOOL OF LAW

SCHOOL OF LAW

13TH MEETING OF BOARD OF STUDIES

Date: 24.04.2025
Venue: School of Law

AGENDA

Item No	Agenda
A. **Opening**	
13.1	To discuss action taken on the decisions made during the 12th BOS meeting and review progress.
Discussion	The Chairman presented the action taken on the decisions made during the 12th Board of Studies (BOS) Meeting. After a detailed review, the actions taken were found to be in alignment with the previously discussed plans and objectives. The Board approved the actions taken and commended the progress made in implementing the decisions**.**
13.2.	To discuss and acknowledge the academic and professional achievements of students and faculty. (Attached as Annexure I)
Discussion	The Chairman of the Board of Studies presented a detailed account of the academic and professional achievements of the faculty members for the period June 2024 to March 2025. The following achievements were highlighted: • Publications: 68 • Paper Presentations: 55 • Workshops Conducted: 24 • Faculty Development Programs (FDP): 41 • Research Projects: 2 • Books Published: 2 The members of the Board of Studies expressed their appreciation for the significant accomplishments of the faculty.

	Hon'ble Justice KBK Vasuki lauded the faculty's exemplary achievements, emphasizing the importance of continuous academic and professional development.

Dr. N. Kayalavizhi and Dr. G. Rajasekar further acknowledged the faculty's contributions and suggested efforts to increase the number of publications in the coming year.

There was a general consensus on the importance of encouraging and supporting faculty members to further enhance their scholarly output.

The Board of Studies acknowledged the exceptional achievements of the students during this period. The Board members expressed their admiration for the students' achievements across various fields, including law, sports, and extracurricular activities. They acknowledged the students' continuous dedication to excellence, which reflects the overall growth and success of the institution. |
| 13.3 | To discuss proposed syllabus revisions for certain subjects under the 2023 regulation for improvement.(Annexure II) |
| Discussion | The proposed revisions to the syllabus for the following subjects were discussed:

- Constitutional Law – I - **90231BL105/90231BC105**
- Constitutional Law – II - **90231BL108/90231BC108**
- Principles of Taxation - **90231BL123/90231BC123**
- Interpretation of Statutes - **90231BL116/90231BC116** |
| Action Taken | After a thorough discussion, the proposed syllabus revisions for each subject were reviewed and approved by the members of the Board of Studies. The revised syllabus will come into effect from the academic year 2025-2026. |
| 13.4 | To discuss the institution's performance in the IIRF ranking and strategies for enhancement. (Annexure III) |
| Discussion | The performance of the School of Law, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology in the IIRF 2025 Rankings was placed before the Board for discussion. The institution secured:

50th Rank at the National Level, and

4th Rank among Best Law Colleges under the IIRF 2025 Category. |

	The Board of Studies appreciated the significant achievement and acknowledged the collective efforts of the faculty, students, and administration. Strategies for further enhancement of institutional performance were also briefly discussed, with a focus on academic excellence, research output and industry collaboration.
13.5	To discuss the introduction of the BSc LLB course, its structure, and its alignment with academic goals. (Annexure IV)
Discussion	The Board verified the curriculum step by step to ensure academic rigor and relevance. After due deliberation, the following recommendations and decisions were made. Dr. N. Kayalvizhi suggested that certain course titles be reviewed and modified to ensure they reflect contemporary academic standards and clarity in subject content. The Board recommended the addition of a digital forensics module under the existing forensic science subject to address emerging trends in cybercrime and digital evidence handling. Dr. G. Rajasekar suggested to include Insolvency and Bankruptcy Code as fifth module in the Right to Information Law. Dr. N. Kayalvizhi and Hon'ble Justice KBK Vasuki proposed to incorporate Satta Tamizh (Legal Tamil) as a component within English courses to enhance students understanding of legal terminology and its usage in bilingual contexts. Dr. N. Kayalvizhi suggested to include Digital Currency and crypto currency as a part of the Banking Law. Dr. N. Kayalvizhi and Dr. G. Rajasekar suggested for the inclusion of international commercial law as a new subject to broaden students' understanding of global legal practices and cross-border commercial regulations. The Board suggested to include internship in IPR. It was decided to introduce a new course/module on artificial intelligence and machine learning to equip students with essential knowledge of emerging technologies relevant across various domains. The Board recommended to have the nomenclature of the course as B.Sc. (Computer Technology) LL.B. The Stakeholders feedback for introducing the B.Sc.LL.B. Course was collected and the same was submitted to the Board.
Action Taken	Digital Forensics has been added as Fifth Module in the Forensic Science And Medical Jurisprudence Robotics has been added as one Module in the Artificial Intelligence and Machine Learning subject.

	International Commercial Arbitration has been added as a Module in Alternate Dispute Resolution. Digital Currency has been added in the 5th Module of the Banking Law Subject.
13.6	To discuss the events conducted by the School of Law from June 2024 to April 2025, with feedback and suggestions.
	The Board reviewed the academic, co-curricular, and extracurricular events conducted by the School of Law during the period June 2024 to April 2025. The Chairman read out the list of events as follows: • 1st Intra-College Mock Parliament, 2024 – 18th October 2024 • Two-Day International Seminar on "Data Protection and Right to Privacy" – 10th –11th January 2025 • Dr. Sagunthala Memorial National Level 1st Tamil Moot Court Competition – 7th –9th February 2025 • Intra-Collegiate Crime Scene Investigation Competition – 15th February 2025 • ICSSR-SRC One Day National Conference on "Empowering Vulnerable Communities: Strategies for Inclusive Social Development" – 22nd February 2025 • Veritas Et Justitia Vincant – Intra College Moot Court Competition – 12th –14th March 2025 • Constitution Day Celebrations – 26th November 2024 • Guest Lectures – 10 sessions conducted The Board appreciated the efforts taken by the School of Law in organizing a wide range of academic and skill-enhancing activities. Dr. N. Kayalvizhi specifically applauded the successful conduct of Constitution Day celebrations throughout the year in accordance with the Government of India guidelines. Members offered positive feedback and encouraged the continuation and expansion of such initiatives to further enrich the academic environment and student engagement.
13.7	To discuss any other related matters concerning academic and institutional development
Discussion	The Board of Studies members congratulated the **School of Law** for its overall significant development in various academic and institutional areas. The continuous progress and commitment to excellence were acknowledged. The **Chairman** informed the Board that **Dr. Manoj Kumar Ganesh**, the first candidate from Vel Tech School of Law, had successfully secured his **PhD**. The

	Board members extended their heartfelt congratulations and best wishes to Dr. Manoj Kumar Ganesh for his future endeavors.

18th MEETING OF BOARD OF STUDIES

MINUTES

For

B.Sc. (VISUAL COMMUNICATION)
B.Sc. (MULTIMEDIA)

On

12.05.2025

SCHOOL OF MEDIA TECHNOLOGY AND COMMUNICATION

REGULATIONS - VTR UGAS2021

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

School of Media Technology & Communication

Department of Visual Communication
&
Department of Multimedia
Minutes of the 18th Board of Studies Meeting held on 12th May 2025

The 18th Board of Studies - B.Sc. (Visual Communication) and B.Sc. (Multimedia) under VTR UGAS2021 Regulation was held in Block 37, Room No, between 10.30am- 2.00 pm the following members were present during the meeting:

Chair Person

Dr. E. Suresh Paul, Dean & Professor - School of Media Technology & Communication.

Academic Expert

Dr. M. Shuhaib Mohammed Haneef, Professor – Department of Electronic Media and Mass Communication, Pondicherry University, Pondicherry.

Ms. Malini, Assistant Professor – Department of Multimedia and Animation, Loyola College, Chennai.

Internal Members

Dr. M. Saravanan, Associate Professor, School of Media Technology & Communication
Ms. S. Devilakshmi, Asst. Professor, School of Media Technology & Communication

Special Invitees

Mr. M. Dhanyanithi, Asst. Professor, School of Media Technology & Communication
Mr. S. Selvavinayagam, Asst. Professor, School of Media Technology & Communication.
Mr. J. Jabez David, Asst. Professor, School of Media Technology & Communication
Ms. S.P. Meenalochini, Asst. Professor, School of Media Technology & Communication
Dr. K. Ebiraj, Asst. Professor, School of Media Technology & Communication

Dr. E. Suresh Paul, Dean – School of Media Technology and Communication & Chairperson of theBoard of Studies welcomed the members.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

The following is the agenda of the 18th BoS.

Agenda No Agenda

18BoS – 01 Presentation by Chair of Board of Studies

18BoS – 02 Student's feedback about the Curriculum

18BoS – 03 Discussion on curriculum and 1st semester syllabus for B.Sc. Multimedia

18BoS – 04 Discussion on curriculum and 3rd semester syllabus for B.Sc. Multimedia

18BoS – 05 Discussion on curriculum and 5th-semester syllabus for B.Sc. Multimedia

18BoS – 06 Discussion on curriculum and 6th-semester syllabus for B.Sc. Multimedia

18BoS – 07 Discussion on curriculum and 1st semester syllabus for B.Sc. Visual Communication

18BoS – 08 Discussion on curriculum and 3rd semester syllabus for B.Sc. Visual Communication

18BoS – 09 Discussion on curriculum and 5th-semester syllabus for B.Sc. Visual Communication

18BoS – 10 Discussion on curriculum and 6th-semester syllabus for B.Sc. Visual Communication

18BoS – 11 Discussions on NPTEL/Swayam online courses to students

18BoS – 12 Discussions on 2nd Edition of International Conference

18BoS – 13 Any other items.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Vel Tech
Rangarajan Dr. Sagunthala
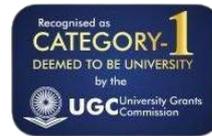R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

SCHOOL OF MEDIA TECHNOLOGY AND COMMUNICATION

18th BOARD OF STUDIES

(12th May 2025, Monday)

MEMBERS OF THE BOARD OF STUDIES

S. No	Name, Designation and Organization	Functional Designation	Signature
1	Dr. E. Suresh Paul Dean and Professor School of Media Technology and Communication, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.	Chair Person	
2	Dr. M. Shuaib Mohamed Haneef Professor, Department of Electronic Media and Mass Communication, Pondicherry University, Puducherry.	External Expert Member	
3	Ms. Malini Assistant Professor, Department of Animation, DDU Kaushal Kendra, Loyola College, Chennai.	External Expert Member	
4	Mr. R. Venkatesh Babu CEO, Global Villagers, Chennai	Industry Expert Member	—

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

SCHOOL OF MEDIA TECHNOLOGY AND COMMUNICATION
18th BOARD OF STUDIES
(12th May 2025, Monday)

MEMBERS OF THE BOARD OF STUDIES

S. No	Name, Designation and Organization	Functional Designation	Signature
1	Dr. M. Saravanan Associate Professor School of Media Technology and Communication	Internal Member	
2	Ms. Devi Lakshmi Assistant Professor School of Media Technology and Communication	Internal Member	
3	Mr. M. Dhayanithi Assistant Professor School of Media Technology and Communication	Special Invitee	
4	Mr. Selvavinayagam Assistant Professor School of Media Technology and Communication	Special Invitee	
5	Mr. Jabez David Assistant Professor School of Media Technology and Communication	Special Invitee	
6	Ms. Meenalochini S. P Assistant Professor School of Media Technology and Communication	Special Invitee	
7	Dr. Ebiraj K. Assistant Professor School of Media Technology and Communication	Special Invitee	

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

SCHOOL OF MEDIA TECHNOLOGY AND COMMUNICATION

18th BOARD OF STUDIES

(12th May 2025, Monday)

MEMBERS OF THE BOARD OF STUDIES

S. No	Name, Designation and Organization	Functional Designation	Signature
1	Mr. Lalith Raghavendar	Alumni	
2	Ms. Shiva Priya	Alumni	
3	Mr. Dilli Babu III – BSc Visual Communication	Current Student	
4	Ms. Ramyya A II – BSc Visual Communication	Current Student	
4	Ms. Gayathri K I – BSc Visual Communication	Current Student	
5	Mr. Lalith Kumar B III – BSc Multimedia	Current Student	
6	Mr. Rahul Krishna R II – BSc Multimedia	Current Student	
7	Mr. Manikandan P I – BSc Multimedia	Current Student	

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda 18 BoS – 01 Presentation by Chair of Board of Studies

The Chairperson introduced himself and explained the curriculum for B.Sc. (Visual Communication) and B.Sc. (Multimedia) under VTR UGAS2021Regulation. He also requested the members to give their open views on how to tune the curriculum and syllabus to the expectations of the industry.

Discussion:

Ms. Malini suggested offering more detailed Unreal Engine courses for Multimedia students to boost their skills in virtual production and gaming. She also recommended adding value-added courses like Blender for both Visual Communication and Multimedia students. These courses will help students learn important software and improve job prospects. The Board supports these ideas and encourages faculty to consider implementing them. Adding such courses will better prepare students for the media industry's evolving demands. This initiative aims to enhance student skills and employability.

Action:

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS – 02 Students' feedback about the Curriculum

Student Representatives:
1. Mr. Dilli Babu , III B.Sc. Visual Communication
2. Ms. Ramyya, II B.Sc. Visual Communication
3. Ms. Gayathri, I B.Sc. Visual Communication
4. Mr. Manikandan, I B.Sc. Visual Communication
5. Mr. Rahul Krishna, II B.Sc. Multimedia
6. Mr. Lalith Kumar, III B.Sc. Multimedia

Alumni Student Representative:
1. Ms. Shiva Priya – Pursuing M.A Journalism, M O P Vaishava College
2. Mr. Lalith Raghavendar – Lalith Studios, Chennai.

The BoS Chairperson asked the student representatives from each class to share their views on their curriculum. 6 students and 2 Alumni were participated in the Board of Studies meeting.

Discussion:

The following is the feedback given by the students

- Alumni : Ms. Shiva Priya (Visual Communication)

o The School of Media Technology and Communication has actively organized a range of initiatives aimed at enhancing student learning and industry readiness. These include workshops**,** industry expert talks**,** and industrial visits, which have proven to be valuable in supporting students as they pursue higher studies and professional growth.

o Alumni have expressed appreciation for the school's efforts in providing strong placement and internship opportunities, recognizing the importance of practical experience in building successful careers.

o Additionally, it has been suggested to establish various academic and creative clubs, including Art**,** Photography**,** Film**,** Podcasting**,** Language**,** and Dance clubs. These would serve as platforms for students to showcase their talents, build connections, and explore their creative potential alongside academic learning.

Alumni: Mr. Lalith Raghavendar (Multimedia)

o Alumni have emphasized the importance of increasing the number of industrial visits for students, recognizing these as valuable opportunities for real-world exposure and practical learning.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

o He suggested to offer specialized courses such as Virtual Production and Cinematography to better prepare multimedia students for the evolving demands of the industry.

o To address the growing demand for cutting-edge technology in media, alumni have highlighted the need to incorporate training in Unreal Engine software, double-column script writing, and AI-based editing as part of the curriculum.

Currently pursuing students shared feedback about the curriculum and learning experience at the School of Media Technology and Communication:

Mr. Lalith Kumar
He said that our syllabus is more up-to-date compared to other institutions, giving them a competitive edge. And also he highlighted that the workshops conducted by the department were highly beneficial, offering practical insights and hands-on experience that complemented their academic learning.

Mr. Dilli babu
He expressed satisfaction with the current curriculum and teaching approach, stating that they had no further suggestions for improvement.

Mr. Rahul Krishna
He said that multimedia students are gaining exposure to a wider range of software tools compared to Visual Communication students, reflecting the program's focus on cutting-edge industry skills.

Ms. Manikandan
He expressed an interest in having workshops specifically focused on 2D and 3D subjects.

Ms.Ramyya
She expressed that their curriculum would be more comprehensive if it included an advanced photography course than what is currently available in Multimedia.

Ms.Gayathri
She expressed about laboratory courses required more lab hours to complete the exercises.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
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12th May 2025.

Action

o The Board notes with satisfaction that the current syllabus is considered up-to-date by students when compared to other institutions, providing them with a distinct competitive advantage. The emphasis on continuous curriculum review is encouraged to maintain this standard.

o Students have expressed interest in additional workshops focused on 2D and 3D subjects, including a specific request for 3D craft workshops. The Board supports the expansion of such practical sessions, recognizing their importance in developing hands-on skills vital for the media industry.

o Feedback from Visual Communication students highlighted a need for a more advanced photography course in their curriculum. The Board recommends assessing the feasibility of introducing an advanced photography module tailored specifically for Visual Communication students.

o Students appreciate the broader exposure to various software tools compared to other similar programs. The Board encourages the continuation and expansion of software training to keep pace with industry demands.

The members have noted and moved on to the next agenda.

The chairperson Dr. E. Suresh Paul explained the course curriculum to the panel.

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School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda 18 BoS - 03 Discussion on curriculum and 1st semester syllabus for B.Sc. Multimedia

The BoS Chairperson discussed the curriculum and the course structure of the 1st Semester for B. Sc. Multimedia. The Courses offered in 1st semester are: Tamil (50210MM101), Basic Tamil (50210MM102), General English (50210MM103), Fundamentals of Multimedia (50211MM118), Photography Framing & Composition (50211MM219), Drawing (50211MM303), Environmental Studies (50211MM302) and Creative thinking (50211MM307).

Discussions:

Course Code	Course Category	Course Name	Changes
50210MM101	Foundation I	Tamil	No changes
50210MM102		Basic Tamil	No changes
50210MM103	Foundation II	General English	No changes
50211MM118	Programme Core I	Fundamentals of Multimedia	No changes
50211MM219	Programme Core II	Photography - Framing & Composition	No changes
50211MM303	Programme Core III	Drawing	No changes
50218MM302	Ability Enhancement Courses	Environmental Studies	No changes
50218MM307	Ability Enhancement Courses	Creative Thinking	

The members of the BoS approved the curriculum and the syllabus for the other 1st semester coursesfor B.Sc. Multimedia.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda 18 BoS - 04 Discussion on curriculum and 3rd semester syllabus for B.Sc. Multimedia

The BoS Chairperson discussed the curriculum and the course structure of the 3rd Semester for B. Sc. Multimedia. The Courses offered in 3rd semester are: UI/UX Design for Web Application (50211MM209), Sound Design for Animation (50211MM210), 2D Digital Animation (50211MM311), 3D Character Modeling (50211MM312), Stop Motion Animation (50213VC301), and Visual Analysis Techniques (50218MM304).

Discussions:

Course Code	Course Category	Course Name	Changes
50211MM209	Programme Core IX	UI/UX Design	No changes
50211MM210	Programme Core X	Sound Design for Animation	No changes
50211MM311	Programme Core XI	2D Digital Animation	No changes
50211MM312	Programme Core XII	3D Character Modeling	No changes
50213VC301	Open Elective I	Stop Motion Animation	No changes
50218MM304	Ability Enhancement Courses	Visual Analysis Techniques	No changes

The members of the BoS approved the curriculum and the syllabus for the other 3rd semester coursesfor B.Sc. Multimedia.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS – 05 Discussion on curriculum and 5th semester syllabus for B.Sc. Multimedia

The BoS Chairperson discussed the curriculum and the course structure of the 5th Semester for B The BoS Chairperson discussed the curriculum and the course structure of the 5th Semester for B. Sc. Multimedia. The Courses offered in 5th semester are: Visual Effects (50211MM314), 3D Environmental Design (50211MM315), Video Editing (50211MM316), Digital Intermediate (50212MM204), Augmented Reality Virtual Reality (50212MM205), 3D Stereoscope (50212MM206), 3D Animation (50212MM207) and Portfolio Presentation (50218MM306).

Discussions:

Course Code	Course Category	Course Name	Changes
50211MM314	Programme Core XIV	Visual Effects	No changes
50211MM315	Programme Core XV	3D Environmental Design	No changes
50211MM316	Programme Core XVI	Video Editing	No changes
50212MM204	Programme Elective I	Digital Intermediate	No changes
50212MM205	Programme Elective II	Augmented Reality Virtual Reality	This course Augmented Reality and Virtual Reality shifted to 6th semester from 5th semester. Instead of the course the game design and development course offered here.
50212MM206	Programme Elective III	3D Stereoscope	No changes
50212MM207	Programme Elective IV	3D Animation	No changes
50218MM306	Ability Enhancement Courses	Portfolio Presentation	No changes

The members of the BoS approved the curriculum and the syllabus for the other 5th semester courses for B.Sc. Multimedia.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
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12th May 2025.

Agenda18 BoS – 06 Discussion on curriculum and 6th semester syllabus for B.Sc. Multimedia

The BoS Chairperson discussed the curriculum and the course structure of the 5th Semester for
B. Sc. Multimedia. The Courses offered in 4th semester are: Game Design and Development
(50211MM217), Internship (50214MM901) and Major Project (50214MM801).

Discussion:

Course Code	Course Category	Course Name	Changes
50211MM217	Programme Core XVII	Game Design and Development	The BOS members was discussed and approved to move the Game Design and development course will be moved from the 6th semester to the 5th semester. This change is due to the 6th semester internship period, which leaves insufficient time to complete the project works effectively. The Augmented Reality and Virtual Reality course will be shifted from the 5th semester to the 6th semester.
50214MM901	Independent Learning	Internship	No Changes
50214MM801	Independent Learning	Major Project	No Changes

The members of the BoS approved the curriculum and the syllabus for the other 6th semester
coursesfor B.Sc. Multimedia.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda 18 BoS - 07 Discussion on curriculum and 1st semester syllabus for B.Sc. Visual Communication

The BoS Chairperson discussed the curriculum and the course structure of the 1st Semester for B. Sc.Visual Communication. The Courses offered in 1st semester are: Tamil (50210VC101), Basic Tamil (50210VC102), Hindi (50210VC104), General English (50210VC103), Visual Communication Concepts & Principles (50211VC101), Visual Literacy (50211VC318), Graphic Design (50211VC303), Creative Thinking (50218VC307) and Environmental Studies (50218VC302).

Discussions:

Course Code	Course Category	Course Name	Changes
50210VC101	Foundation I	Tamil	No changes
50210VC102	Foundation I	Basic Tamil	No changes
50210VC104	Foundation I	Hindi	No changes
50210VC103	Foundation II	General English	No changes
50211VC221	Programme Core I	Visual Communication Concepts and Principles	No changes
50211VC318	Programme Core II	Visual Literacy	No changes
50211VC303	Programme Core III	Graphic Design	No changes
50218VC302	Ability Enhancement Courses	Environmental Studies	No changes
50218VC307	Ability Enhancement Courses	Creative Thinking	No changes

The members of the BoS approved the curriculum and the syllabus for the other 1st semester courses forB.Sc. Visual Communication.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda 18 BoS - 08 Discussion on curriculum and 3rd semester syllabus for B.Sc. Visual Communication

The BoS Chairperson discussed the curriculum and the course structure of the 3rd Semester.

The Courses offered in 3rd semester are: Advertising (50211VC209), Media Laws and Ethics (50211VC222), Writing for Media (50211VC211), UI/UX Design (50211VC223), Performing Skills(50213MM301) and Visual Analysis Techniques (50218VC304).

Discussion:

Course Code	Course Category	Course Name	Changes
50211VC209	Programme Core IX	Advertising	No Changes
50211VC222	Programme Core X	Media Laws and Ethics	No Changes
50211VC211	Programme Core XI	Writing for Media	No Changes
50211VC223	Programme Core XII	UI/UX Design	No Changes
50213MM301	Open Elective I	Performing Skills	No Changes
50218VC304	Ability Enhancement Courses	Visual Analysis Techniques	No Changes

The members of the BoS approved the curriculum and the syllabus for the other 3rd semester courses for B.Sc. Visual Communication.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS - 09   Discussion on curriculum and 5th semester syllabus for B.Sc. Visual Communication

The BoS Chairperson discussed the curriculum and the course structure of the 5th Semester for B. Sc. Visual Communication. The Courses offered in 5th semester are: Television Production(50211VC315), Media Management(50211VC116), Advertising Photography(50212VC204), Sound Design(50212VC205), PR Campaign(50212VC206), E-Content Development(50213MM103) and Portfolio presentation(50218VC306).

Discussions:

Course Code	Course Category	Course Name	Changes
50211VC315	Programme Core XV	Television Production	No Changes
50211VC116	Programme Core XVI	Media Management	No Changes
50212VC204	Programme Elective III & IV	Advertising Photography	No Changes
50212VC205		Sound Design	No changes
50212VC206		PR Campaign	No changes
50213MM304	Open Elective III	E-Content Development	As part of the ongoing curriculum enhancement, it has been decided to shift the E-Content Production course from the 5th semester to the 6th semester, replacing the Media Research Methods course. The Bos members was approved the changes.
50218VC306	Ability Enhancement Courses	Portfolio Presentation	No changes

The members of the BoS approved the curriculum and the syllabus for the other 5th semester courses for B.Sc. Visual Communication.

Action

The members have noted the changes and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS - 10   Discussion on curriculum and 6th semester syllabus for B.Sc. Visual Communication

The BoS Chairperson discussed the curriculum and the course structure of the 5th Semester for B. Sc. Visual Communication. The Courses offered in 4th semester are: Media Research Methods (50211VC317), Internship (50214VC901) and Major Project (50214VC801).

Discussion:

Course Code	Course Category	Course Name	Changes
50211VC317	Programme Core XVII	Media Research Methods	The BOS members was discussed and approved to move the Media Research Methods course from the 6th semester to the 5th semester. This change is due to the 6th semester internship period, which leaves insufficient time to complete the research course effectively. Consequently, the E-Content Production course will be shifted from the 5th semester to the 6th semester to balance the curriculum. The Board agreed that this swap will help students manage their workload better and complete both courses successfully.
50214VC901	Independent Learning	Internship	No Changes
50214VC801	Independent Learning	Major Project	No Changes

The members of the BoS approved the curriculum and the syllabus for the other 6th semester coursesfor B.Sc. Visual Communication.

Action

The members have noted and moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS – 11 Discussion on NPTEL/ Swayam Online Courses Enrollment

The Board discussed the initiative to integrate online learning platforms such as NPTEL and SWAYAM into the curriculum.

The BOs members were suggested that online courses provide students with access to a wide range of specialized courses and enhancing their subject knowledge. The Board encouraged the faculty to explore suitable courses from these platforms and incorporate them into the academic framework for both Visual Communication and Multimedia students. In addition, the BOS members were approved in the list of online courses for the students.

The online courses are Developing Soft Skills and Personality, Creative Writing, Visual Communication Design for Digital Media, Design Thinking and Innovation, Photojournalism and Online communication in digital the age.

Discussions:

S. No	Course Name	Course Category	Credits	Weeks	Changes
1	Developing Soft Skills and Personality	Elective	2	8	Approved
2	Creative Writing	Elective	4	12	Approved
3	Visual Communication Design for Digital Media	Elective	4	16	Approved
4	Design Thinking and Innovation	Elective	4	16	Approved
5	Photojournalism	Elective	5	15	Approved
6	Online communication in digital the age	Elective	3	12	Approved

Action

The members of the BoS approved to offer the list of online courses to the students. Then, the members moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
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12th May 2025.

Agenda18 BoS – 12 Discussion on 2nd Edition International Conferences

The BOS Chairperson discussed the proposed themes for the 2nd Edition of the International Conference with the BOS members. The Chairperson emphasized the importance of selecting themes that reflect current industry trends, emerging technologies, and innovative practices in the fields of media, communication, and creative arts. The Board members were encouraged to provide their inputs and suggestions to ensure the conference themes align with both academic goals and industry expectations, fostering meaningful discussions and knowledge exchange. The 2nd Edition of the International Conference planned to organize in the upcoming academic year.

Action

The members of the BoS accepted and approved to organize the international conference. Then, the members moved on to the next agenda.

Minutes of 18th Board of Studies - B.Sc. (Visual Communication) & B.Sc. (Multimedia)
School of Media Technology & Communication,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
12th May 2025.

Agenda18 BoS – 13 any other items

The Chairperson discussed with the BOS members about workshops, industrial visits, and value-added courses as part of the department's ongoing efforts to enhance practical learning and industry exposure for students.

The Chairperson also reviewed the overall department progress, highlighting recent achievements, department infrastructure development and formulation of both short-term and long-term plans for strengthening the department. The BOS members were appreciated the department recent achievements, infrastructure development and students positive feedback.

Discussions:

The BOS External members unanimously approved to organize workshops, guest lectures, industrial visits, and value-added courses for students, with the involvement of industry resource persons. This initiative aims to enhance practical knowledge, industry exposure, and professional skills, aligning the curriculum with current industry standards.

Action:

The BoS Chairperson has assured to include the suggestions as recommended and appropriate.

As there were no further points for discussion, the meeting ended with vote of thanks.

Date: 12 May 2025   **Chairman – BOS**

SCHOOL OF COMMERCE

6th BOARD OF STUDIES

on

06th May, 2025

Summer Semester 2025-26

FOR

Bachelor of Commerce (B.Com)

Ph.D. Commerce

School of Commerce

6th Board of Studies Meeting – Agenda

Date: 06.05.2025   **Time:10.00 am**

The following items for Confirmation, discussion, and approval on the Board of Studies Meeting:

Agenda	Items for Confirmation
6 BoS 01	Welcome address
6 BoS 02	To Confirm the minutes of meeting of the 5th BoS held on 14.02.2025
6 BoS 03	Action taken report on minutes of 5th BoS meeting.
6 BoS 04	To record leave of absence of members

Agenda	Items for Consideration and Approval
6 BoS 05	To discuss B.Com. Programme **Course Contents for V Semester** under Regulations VTR UGAS-2021. (For Batch: 2023-2026 Academic Year: 2025-2026).
6 BoS 06	To discuss B.Com. Programme **Course Contents for the III Semester** under Regulations VTR UGAS-2021, (For Batch: 2024-2027 Academic Year: 2025-2026).
6 BoS 07	To discuss B.Com. Programme **Course Contents for I Semester** under Regulations VTR UGAS-2021. (For Batch: 2025-2028 Academic Year: 2025-2026).
6 BoS 08	To discuss and approve the Commerce Ph.D. Coursework
6 BoS 09	To discuss and approve the commerce-related courses available in Massive Open Online Courses (MOOCs)
6 BoS 10	To discuss and approve for the credits total relating to Extracurricular courses and value-added courses based on the student's choice at the end of the semester examination.
6 BoS 11	To discuss and approve the Interdisciplinary courses.
	ITEMS FOR REPORTING AND RECORDING
26 BoS 12	Programme conducted/Faculty and Students achievements
26 BoS 13	Any other items
26 BoS 14	Vote of Thanks
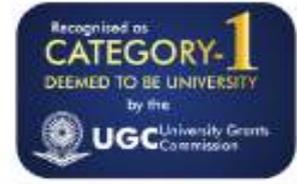
SCHOOL OF COMMERCE
5th BOARD OF STUDIES

Action Taken Report

The 5th Board of Studies (BoS) meeting for the B.Com. Programme was convened on 14th February 2025 to review and enhance the academic framework for the Winter Semester of the Academic Year 2024–2025. The primary focus of the meeting was to ensure the curriculum remains in sync with contemporary educational practices and evolving industry expectations. Prof. Dr. P. Maria Doss, PG & Research Department of Commerce, Presidency College, Chennai, recommended the targeting skill development and career preparedness. He also emphasized the need to broaden Open Elective Courses to promote interdisciplinary exposure and enhance Learning and Teaching Activities through blended learning, case-based pedagogy, and continuous assessments. Ms. J. Kavitha Vettrikumar, Industrial Expert and Director at Deloitte India, highlighted the significance of incorporating Value-Added Courses that build industry-relevant skills such as data analytics, financial modeling, effective business communication, and digital tool proficiency, thus improving the employability quotient of graduates. Ms. Rama Ranjani, Alumna, Comcast India Engineering Center, Chennai, appreciated the current curriculum and proposed the integration of technology-driven modules focusing on digital finance, fintech innovations, and data interpretation. She also advocated for deeper alumni engagement through mentorship, guest lectures, and career support initiatives. The final recommendations from the 5th Board of Studies (BoS) meeting were incorporated to and approved by the Academic Council.

School of Commerce
6th Board of Studies
Minutes of the Meeting as on 06-05-2025

The 6th Board of Studies meeting for the School of Commerce was held on May 6, 2025, at 10:00 a.m. in hybrid mode at the Dean's Chamber, with online participation facilitated via Google Meet (https://meet.google.com/tin-tsmz-aqk).

Agenda	Items for Confirmation
6 BoS 01	Welcome Address
Welcome address by	Dr.A.Arumugam, Head and Chairman of BoS, commenced the session by extending a warm welcome to the panel members in his opening remarks before proceeding with the agenda.
6 BoS 02	To Confirm the minutes of meeting of the 5th BoS held on 14.02.2025
Discussion	The 5th Board of Studies of the Department was held on 14th February 2025 for the B.Com. Programme for the Summer semester of the Academic Year 2024 – 2025 were presented. To Confirm and Approve the B.Com. Programme (General / Corporate Secretaryship / Accounting and Finance / Professional Accounting) Course Contents for the VI Semester under Regulations VTR UGAS-2021, (For Batch: 2022-2025/ Academic Year: 2024-2025). To Confirm and Approve B.Com. Programme (General / Corporate Secretaryship /Accounting and Finance/ Professional Accounting/ Computer Applications) Course Contents for IV Semester under Regulations VTR UGAS-2021. (For Batch: 2023-2026/ Academic Year: 2024-2025). B.Com. Programme (General / Corporate Secretaryship /Accounting and Finance / Professional Accounting/ Computer Applications) Course Contents for II Semester under Regulations VTR UGAS-2021. (For Batch: 2024-2027/ Academic Year: 2024-2025).
6 BoS 03	Action taken report on minutes of 5th BoS meeting.
Discussion	Items for Consideration and Approval
6 BoS 04	To record leave of absence of members
Discussion	All the members are present

6 BoS 05	To discuss B.Com. Programme **Course Contents for V Semester** under Regulations VTR UGAS-2021. (For Batch: 2023-2026 Academic Year: 2025-2026).
Discussion	No changes were made to the course contents, and the syllabus was discussed and approved.

SEMESTER- V
B.Com. - General / Corporate Secretaryship/ Accounting and Finance/ Professional Accounting

Course Category	Course Code	Courses	L	T	P	C
Programme Core-16	80211GE1 16	Management Accounting	3	1	0	4
Programme Core-17	80211GE117	Research Methodology	3	1	0	4
Programme Elective 4	80212GE108	Retail Management	3	0	0	3
	80212CR108	Corporate Law	3	0	0	3
	80212AF106	Micro Finance	3	0	0	3
	80212PA108	Accounting Information Systems	3	0	0	3
	80212CA108	Programming with C++	3	0	0	3
Open Elective 2	80213GE102	Personal Finance and Planning	3	0	0	3
Open Elective 3	80213GE103	Artificial Intelligence for Business	3	0	0	3
Ability Enhancement Course 5	80218GE302	Tally –Lab	1	0	1	2
		TOTAL CREDITS	**19**			

6 BoS 06	To discuss B.Com. Programme **Course Contents for the III Semester** under Regulations VTR UGAS-2021, (For Batch: 2024-2027 Academic Year: 2025-2026).
Discussion	No changes were made to the course contents, and the syllabus was discussed and approved.

SEMESTER III
B.Com. - General / Corporate Secretaryship / Accounting and Finance / Professional Accounting / Computer Applications

Course Category	Course Code	Course Title	L	T	P	C
Programme Core 8	80211GE108	Corporate Accounting	3	1	0	4
Programme Core 9	80211GE109	Business Statistics	3	1	0	4
Programme Core 10	80211GE110	Company Law	3	1	0	4
Programme Core 11	80211GE111	Total Quality Management	3	1	0	4
Programme Elective 1	80212GE101	Rural Marketing	3	0	0	3
	80212CR101	Practical Auditing	3	0	0	3
	80212AF101	Forex Management	3	0	0	3
	80212PA101	Indirect Taxation	3	0	0	3
	80212CA101	Computer Application in Business	3	0	0	3
Programme Elective 2	80212GE102	Event Management	3	0	0	3
	80212CR102	Risk Management	3	0	0	3
	80212AF102	Merchant Banking	3	0	0	3
	80212PA102	Accounting for Decision Making	3	0	0	3
	80212CA102	Data Base Management System	3	0	0	3
Ability Enhancement Course 3	80218GE102	India's Diversity and Business	2	0	0	2
		TOTAL CREDITS		**24**		

6 BoS 07	To discuss B.Com. Programme **Course Contents for I Semester** under Regulations VTR UGAS-2021. (For Batch: 2025-2028 Academic Year: 2025-2026).
Discussion	No changes were made to the course contents, and the syllabus was discussed and approved.

SEMESTER I

B.Com. [General / Corporate Secretaryship / Accounting and Finance/ Computer Applications]

Course Category	Course Code	Course Title	L	T	P	C
Foundation 1	80210GE101	Tamil - I	3	0	0	3
	80210GE102	Basic Tamil - I				
	80210GE103	Hindi - I				
Foundation 2	80210GE104	English - I	3	0	0	3
Programme Core 1	80211GE101	Financial Accounting - I	3	1	0	4
Programme Core 2	80211GE102	Business Economics	3	0	0	3
Programme Core 3	80211GE103	Business Communication	3	0	0	3
Ability Enhancement Course 1	80218GE101	Environmental Studies	2	0	0	2
		TOTAL CREDITS	**18**			

6 BoS 08	To discuss and approve the Commerce Ph.D. Coursework
Discussion	The members emphasized the need to align Ph.D. coursework with emerging specializations such as fintech, sustainable finance, and digital commerce. They highlighted the importance of integrating recent research trends to keep pace with global academic and industry developments.

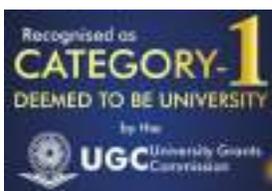| S.No	Course Code	Course Name	Specialization
1	40211BC101	Ethics and Data Privacy in Tech-Enabled Marketing	Marketing
2	40211BC102	Neuro-Marketing and Consumer Psychology	
3	40211BC103	AI and Big Data Applications in Marketing Analytics	
4	40211BC104	Integrated Marketing Communications & Brand Strategy	
5	40211BC105	Green, Ethical and Sustainable Marketing	
6	40211BC106	Advanced Research Methods in Marketing	
7	40211BC107	Strategic Human Resource Management	HRM
8	40211BC108	Organizational Development and Change Leadership	
9	40211BC109	Talent Management and Succession Planning	
10	40211BC110	Human Capital Development in Logistics and Supply Chain Management	
11	40211BC111	Emotional Intelligence and Mindful Leadership	
12	40211BC112	AI-Powered Performance Management and Workforce Analytics	
13	40211BC113	Advanced Corporate Finance and Risk Management	Finance
14	40211BC114	Sustainable Finance and Environmental Risk Assessment	
15	40211BC115	Derivatives and Financial Engineering	
16	40211BC116	International Financial Systems and Policy Frameworks	
17	40211BC117	Fintech Innovations and Digital Financial Ecosystems	
18	40211BC118	Banking Technology and Digital Innovations	
19	40211BC119	Advanced Theories of Entrepreneurship and Innovation	Entrepreneurship and Development
20	40211BC120	Entrepreneurial Finance and Venture Capital	
21	40211BC121	Social Innovation and Impact Entrepreneurship	
22	40211BC122	Policy Framework for MSMEs and Start-up Ecosystems	
23	40211BC123	Women Entrepreneurship and Inclusive Development	
24	40211BC124	Case-Based Research Methods in Entrepreneurship	
25	40211BC125	International Financial Reporting Standards (IFRS) and Convergence	Accounting and Taxation
26	40211BC126	Forensic Accounting and Corporate Fraud Detection	
27	40211BC127	Strategic Cost Management and Performance Evaluation	
28	40211BC128	Advanced Auditing Standards and Risk-Based Audit	
29	40211BC129	Corporate Taxation and Transfer Pricing Regulations	
30	40211BC130	Conceptual Framework and Evolution of GST in India	
31	40211BC131	Global Trade Theories and International Economic Relations	International Business and Trade
32	40211BC132	Cross-Cultural Management and Global HR Practices	
33	40211BC133	Global Logistics and Supply Chain Resilience	

34	40211BC134	Foreign Exchange Markets and International Risk Hedging	
35	40211BC135	International Strategic Alliances and Mergers	
36	40211BC136	Empirical Research Methods in International Business	

6 BoS 09	To discuss and approve the commerce-related courses available in Massive Open Online Courses (MOOCs)
Discussion	The members discussed incorporating commerce-related MOOCs, including Financial Accounting, Business Analytics, and Digital Marketing, to enhance curriculum flexibility and skill development. They agreed on utilizing UGC-approved MOOC platforms such as SWAYAM and NPTEL.
6 BoS 10	To discuss and approve for the credits total relating to Extracurricular courses and value-added courses based on the student's choice at the end of the semester examination.
Discussion	The members discussed allocating credits for extracurricular and value-added courses, allowing students to choose based on their interests after the semester-end examinations. It was agreed that these courses would be optional and contribute to overall credit requirements.
6 BoS 11	To discuss and approve the Interdisciplinary courses.
Discussion	The members discussed the integration of interdisciplinary courses to broaden students' academic exposure and foster holistic learning.

S. No.	Course Code	Course Title	L	T	P	C
1	80213GE104	EXIM Procedures and Documentation	1	0	0	1
2	80213GE105	Business Accounting for Engineers	1	0	0	1
3	80213GE106	General Commercial Knowledge	1	0	0	1
4	80213GE407	Business to Business Marketing (B2B)	3	0	0	3
5	80213GE408	Introduction to GST	2	0	0	2
6	80213GE409	Operations and Supply Chain Management	3	0	0	3

26 BoS 12	Programme conducted/Faculty and Students achievements
Discussion	In the Winter Semester of the Academic Year 2024–2025, the School of Commerce organized various academic initiatives, such as guest lectures, FDPs, international conferences, symposiums, workshops, and industry interactions. Faculty members were acknowledged for their impactful research publications and contributions to curriculum development. Students excelled in national competitions, secured prestigious internships, and achieved impressive placements.

26 BoS 13	Any other items
Discussion	The members discussed the upcoming Summer Semester plan for the Academic Year 2025–2026. They also reviewed the admission process, ensuring alignment with academic goals and student diversity. The emphasis was placed on achieving academic excellence, improving industry connections, and fostering a holistic learning environment.
26 BoS 14	Vote of Thanks
Delivered by	Dr. J. Sridevi, Associate Professor

School of Science & Humanities

Department of Physics

Agenda of the 8th BoS meeting held on 10th May 2025

Agenda No.	Particulars
08 BoS - 01	Welcome note by the Chairman of the Board of Studies *(BoS)*
08 BoS - 02	Presentation by the Chairman, BoS
08 BoS - 03	Discussion on the new value-added course proposed for the Freshman Engineering (FME)/M.Sc. Physics program
08 BoS - 04	Discussion on a new Open Elective course proposed for M.Sc. Mathematics and an NPTEL course proposed for the M.Sc. Physics program *(Regulation VTR PGAS - 2023)*
08 BoS - 05	Discussion on the new specialization courses for the Ph.D. coursework *(Regulation VTR DR - 2021)* approved by the concerned RAC members
08 BoS - 06	Discussion on Internship and Project Reviews for the M.Sc. Physics program *(Regulation VTR PGAS - 2023)*
08 BoS - 07	Any other items

Minutes of the 8th Board of Studies Meeting

The eighth Board of Studies - Physics was held in online between 10 AM and 12 Noon and the following members were present during the meeting.

Chairman:

Dr. D. Senthilkumar,
Associate Professor & Head, Department of Physics, School of Science & Humanities (S&H), Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology (Vel Tech), Avadi, Chennai 600 062.

External Academic Expert:

Dr. M. Ashok,
Professor, Department of Physics, National Institute of Technology, Tiruchirappalli.

External Industrial Expert:

Shri. Ramesh Babu. A.C.
Manager (Scientific), CARD, Neyveli Lignite Corporation India Limited, Neyveli, Cuddalore.

Internal Members:

Dr. R. Gowri Shankar Rao, Professor, Department of Physics, S&H, Vel Tech.
Dr. J. Gajendiran, Professor, Department of Physics, S&H, Vel Tech.
Dr. A. Prabakaran, Professor, Department of Physics, S&H, Vel Tech.
Dr. S. Mani Naidu, Professor, Department of Physics, S&H, Vel Tech.
Dr. Parthasaradhi Reddy, Associate Professor, Department of Physics, S&H, Vel Tech.
Dr. Pradeep Reddy Vanga, Associate Professor, Department of Physics, S&H, Vel Tech.
Dr. K. Jayaprakash, Assistant Professor, Department of Physics, S&H, Vel Tech.
Mr. Logesh R, Alumni Representative, M.Sc. Physics (Batch of 2022-24), Vel Tech.

Agenda 08 BoS - 01: Welcome note by the Chairman, BoS

The Chairman, BoS, welcomed the BoS members for the eighth BoS meeting.

Agenda 08 BoS - 02: Presentation by the Chairman, BoS

The Chairman, BoS, presented the academic progress of the M.Sc. Physics, Ph.D. Physics, and Freshman Engineering (FME) courses offered in the Department of Physics, School of Science & Humanities, in a PowerPoint presentation.

Discussion: The External members appreciated the progress.

Action: The members moved on to the next agenda.

Agenda 08 BoS - 03: Discussion on the new syllabi for the FME/M.Sc. Physics program

Proposed course content for the FME program

S. No.	Proposed Course Name	Proposal
1	**Radiation Hazards**	New value-added course content has been proposed.

Discussion: The members of the BoS have verified the proposed course contents and approved them for inclusion in the curriculum.

The external experts' recommendations with remarks on the syllabi are as follows:

Recommendations and remarks of the External experts on the proposed courses

S. No.	Proposed Course Name	Experts' Remarks
1	**Radiation Hazards**	The course can be kept as proposed by the department. An assessment has to be engaged internally at least to have effectiveness in the course delivery.

Action: The suggestions of the experts were incorporated. The members moved on to the next agenda.

Agenda 08 BoS - 04: Approval of new Program Elective and NPTEL courses for the M.Sc. Physics Program *(regulation VTR PGAS - 2023).*

Proposed courses for the M.Sc. program

S. No.	Proposed Course Name	Proposal
1	**Classical Physics** *(For M.Sc. program under VTR PGAS 2023 regulation)*	A new open elective course has been proposed for 3 credits for M.Sc. Mathematics program.
2	**An Introduction to Lasers and Laser Systems** *(For M.Sc. program under VTR PGAS 2023 regulation)*	A new NPTEL course (12 weeks) for 3 credits mapping has been proposed for M.Sc. Physics program.

Discussion: The members of the BoS have verified the proposed course contents and approved them.

The external experts' recommendations with remarks on the syllabi are as follows:

Recommendations and remarks of the External experts on the proposed courses

S. No.	Proposed Course Name	Experts' Remarks
1	**Classical Physics** *(For M.Sc. program under VTR PGAS 2023 regulation)*	The course can be kept as proposed by the department by adding a few applications.
2	**An Introduction to Lasers and Laser Systems** *(For M.Sc. program under VTR PGAS 2023 regulation)*	The experts recommended the course as prescribed by the NPTEL/SWAYAM.

Action: The suggestions of the experts were incorporated. The members moved on to the next agenda.

Agenda 08 BoS - 05: Approval of new specialization courses for the Ph.D. coursework

Proposed specialization courses for the Ph.D. coursework

S. No.	Proposed Course Name	Proposal
1	**(i) Magnetohydrodynamics and Instabilities in Plasma** **(ii) Computational Plasma Physics** *(For Ph.D. specialization coursework as per VTDR 21 Regulation)*	Two new courses for 3 credits each have been proposed for Ph.D. Physics program.

Discussion: The members of the BoS have verified the proposed course contents and approved them.

The external experts' recommendations with remarks on the syllabi are as follows:

Recommendations and remarks of the External experts on the proposed courses

S. No.	Proposed Course Name	Experts' Remarks
1	**(i) Magnetohydrodynamics and Instabilities in Plasma** **(ii) Computational Plasma Physics** *(For Ph.D. specialization coursework as per VTDR 21 Regulation)*	No change. The courses can be kept as proposed by the department.

Action: The members moved on to the next agenda.

Agenda 08 BoS - 06: Discussion on (a). Internship and (b). Project Reviews for the M.Sc. Physics program *(regulation VTR PGAS - 2023)*

S. No.	TTS No.	Name of the Member	Designation	Years of Experience	Position of the Members
List of proposed committee/panel members for the experts' approval
1	1902	Dr. D. Senthilkumar	Assoc. Prof. & Head	12	Chairman
2	3257	Dr. S. Mani Naidu	Professor	36	Convener
3	1814	Dr. R. Gowri Shankar Rao	Professor	15	Member
4	2317	Dr. J. Gajendiran	Professor	11	Member
5	2560	Dr. A. Prabakaran	Professor	27	Member
6	2373	Dr. Parthasaradhi Reddy	Associate Professor	19	Member
7	2412	Dr. Pradeep Reddy Vanga	Associate Professor	7	Member
8	2413	Dr. M. Rigana Begam	Associate Professor	7	Member
9	2553	Dr. V. Kamalakar	Associate Professor	7	Member
10	2572	Dr. S. Sridhar	Associate Professor	8	Member
11	3080	Dr. A. Saranya	Associate Professor	13	Member
12	3083	Dr. U. Rajesh Kumar	Associate Professor	13	Member
13	3917	Dr. Babu Balraj	Associate Professor	10	Member
14	2950	Dr. P. Prameela	Assistant Professor	22	Member
15	3351	Dr. K. Jayaprakash	Assistant Professor	2.5	Member
16	3493	Dr. P. Mohanraj	Assistant Professor	2	Member

Discussion: The BoS members have approved the members for the proposed committee/panel. The experts have concluded that a minimum of six members from the proposed panel can give recommendations for the categories (a), (b), and (c).

Action: The members moved on to the next agenda.

Agenda 08 BoS - 07: Any other items

The members have suggested an internal assessment for the students who are unable to clear the NPTEL courses by considering the award of their degree.

Chairman, BoS

School of Sciences and Humanities
Department of Chemistry

Minutes of the Board of Studies meeting held on 10th May 2025

The Board of Studies of department of chemistry for BTech (Foundation Courses offered by Chemistry Department), MSc (Chemistry) & PhD (Courseworks) was held in Block 7, Ramanujam Engineering Hive, Room No.7002 between 10:30 am and 01.30 pm and the following members were present during the meeting:

Chairman (BoS)

Dr. C. Hazarathaiah Yadav, Professor & Head of the Department, Department of Chemistry, School of Sciences and Humanities, Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science & Technology, Avadi, Chennai- 600062. Tamil Nadu.

External members

1. Dr.K.Venkateswarlu, Professor, Department of Chemistry, Yogi Vemana University, Kadapa-516001, Andhra Pradesh, India, Email: kvenkat@yogivemanauniversity.ac.in, Cell: 7989951388

2. Dr.Prakash Muthudoss, Chief Scientific Officer, A2Z 4.0 Research & Analytics Pvt Ltd, Consortium Member for Clean Water, II Floor, IIT-Madras Research Park, Chennai-600113, India, Email: prakash.muthudoss@a2z4r.com, Cell:9000181814

Internal Members

1. Prof. Dr. A. Kanni Raj (BOS Member), Professor of Chemistry, VTU
2. Dr. A. Kathiravan (BOS Member), Professor of Chemistry (Research), VTU
3. Dr. N. Haridharan (BOS Member), Professor of Chemistry, VTU
4. Dr. N. Edayadulla (BOS Member), Professor of Chemistry, VTU
5. Dr. L. Sivarama Krishna (BOS Member), Professor of Chemistry, VTU
6. Dr. M. Nagoor Meeran (BOS Member), Associate Professor of Chemistry, VTU
7. Dr. K. Thirunavukkarasu (BOS Member), Associate Professor of Chemistry, VTU
8. Dr. A. Silambarasan, Assistant Professor of Chemistry, VTU
9. Dr. S. Meenakshi (BOS Member), Assistant Professor of Chemistry, VTU
10. Ms.T. Kamali (BOS Alumni Member), Research Scholar, VTU

Special Invitees

1. Dr. L. Venkata Ramana (BOS Member), Associate Professor of Chemistry, VTU
2. Dr. G. Nageswara Reddy (BOS Member), Associate Professor of Chemistry, VTU
3. Dr. V.Srinivasan, Associate Professor of Chemistry, VTU
4. Dr. S. Sivakumar, Assistant Professor of Chemistry, VTU
5. Dr. A. Roniboss, Assistant Professor of Chemistry, VTU

6. Dr. P.M. Vivek, Assistant Professor of Chemistry, VTU
7. Dr. J. Gayathri, Assistant Professor of Chemistry, VTU
8. Dr. D.Divya, Assistant Professor of Chemistry, VTU
9. Dr. M. Ramesh, Assistant Professor of Chemistry, VTU

Agenda

1. Approval of syllabus for B.Tech. Foundation Courses offered by our Department
   (i) Chemistry for Engineers
   (ii) Biochemistry
   (ii) Enguneering Chemistry Lab
   (iii) Environmental Studies and Sustainability

2. Approval of syllabus for B.Tech. Value Added Courses to FME I year students
   (i) Intellectual Property Rights for Start-up
   (ii) Technological Inventions and Entrepreneurial Development

3. Approval of syllabus for M.Sc. Chemistry / III Semester Programme Core Courses
   (i) Organic Chemistry III
   (ii) Inorganic Chemistry III
   (iii) Physical Chemistry III
   (iv) Inorganic Chemistry Lab

4. Approval of syllabus for M.Sc. Chemistry / I Semester Programme Core Courses
   (i) Organic Chemistry III
   (ii) Inorganic Chemistry III
   (iii) Physical Chemistry III
   (iv) Physical Chemistry Lab

5. Approval of syllabus for M.Sc. Chemistry / Programme Elective Courses
   (i) Chemistry of Natural Products
   (ii) Spectroscopy of Organic Compounds
   (iii) Nanoscience and Nanotechnology

6. Approval of syllabus for Ph.D. Courseworks / Academic Year 2025-26
   (i) Quantum Crystallography
   (ii) Computational Chemistry
   (iii) Nanomaterials and their applications
   (iv) Organic Reactions and Mechanisms
   (v) Spectroscopy and Analytical Techniques
   (vi) Nanoscience and Nanotechnology
   (vii) Photochemistry and Its applications
   (viii) Nanophotonics and Nanotechnology
   (ix) Photoscience and Its Applications
   (x) Nanomaterials: Crafting and Probing the Nanoscale
   (xi) Electrochemistry for Energy Storage, Conversion, and Sustainable Technologies
   (xii) Comprehensive Aspects of Advanced Polymer Methodology

Discussion

Presentation by Chairman of the Board of Studies: (i) BoS Agenda, (ii) Major Outlines of syllabi framed by Department faculty, and (ii) Sum-up of modifications.

On Agenda-1 : B.Tech. Foundation Courses offered by Chemistry Department

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Chemistry for Engineers	1. The Chairman BOS wished to change the name of "Engineering Chemistry" to "Chemistry for Engineers". 2. Internal member Prof.Dr.A.Kanni Raj suggested to remove "Simple problems" from Unit-I. 3. Industry Expert Dr.Prakash Muthudoss suggested to add SDG-6 in Unit-I. 4. Dr.A.Silambarasan suggested to remove "Energy density, Power density, Cycle life and Shelf life" from Unit-II. 5. Industry Expert wished to add Modern Automobiles in Unit-II rather than in Unit-III. 6. Internal member Dr.K.Thirunavukkarasu suggested applications of lithium batteries in all fields, rather than for laptop and cell phone alone in Unit-II. 7. Internal member Prof.Dr.A.Kanni Raj wished to add a brief discussion on other commercial batteries, in addition to lithium batteries in Unit-II. 8. Chairman BOS suggested to remove "Power Alcohol versus Petrol", "Biodiesel versus Diesel", Ignition Temperature, Limits of Inflammability and Modern Automobiles, from Unit-III. 9. External Expert Prof.Dr.K.Venkateshwarlu suggested to remove "nanobiosensors in biomedical engineering" from Unit-IV. 10. In Beer-Lambert law, the word "no derivation" is removed from Unit-V. 11. Topics such as DFT basics for chemical reactivity. Molecular drawing, Chemdoodle for spectroscopy, basic Principles and Block Diagram for IoT and Green IoT are removed from Unit-V.
	Biochemistry	1. External member Prof.Dr.K.Venkateshwarlu added "chemistry of nitrogenous bases" in Unit-I 2. Chairman BOS reshuffled topics in the II half of Unit-I as "water as universal solvent, pH, weak acids, weak bases, buffers, introduction to physiological buffers, role of biological buffers, principle of viscosity, surface tension, diffusion, osmosis in biological system" 3. The topic "structure of purines and pyrimidines" removed, and brief discussion on vitamins added, as suggested by Internal member Dr.M.Nagoor Meeran.
	Engineering Chemistry Lab	As such
	Environmental Studies and Sustainability	1. Chairman BOS announced that the credit is only two, and wished to change the name of "Environmental Science and Sustainability" to "Environmental Studies and Sustainability" 2. Internal member Dr.N.Edayadulla removed topics such as timber extraction, mining and land resources from Unit-I. 3. Internal member Prof.Dr.A.Kanni Raj removed topics such as structure and function of an ecosystem, biodiversity at local level, habitat loss, poaching of wildlife, In-situ and ex-situ from Unit-II, and also removed noise pollution, pollution case studies, drought

	and tsunami from Unit-III
	4. Internal member Dr.N.Edayadulla removed topics such as rain water harvesting, consumerism and waste products,wild life protection act 1972, and environmental protection rules 2020 from Unit-IV

On Agenda-2: B.Tech. Value Added Courses offered to FME (I year) students

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Intellectual Property Rights for Start-up	As such
	Technological Inventions and Entrepreneurial Development	As such

On Agenda-3: M.Sc. Chemistry / III Semester / Programme Core Courses

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Organic Chemistry-III	(1) External expert Dr.Prakash Muthudoss suggested to add "photodegradation of organic compounds" in Unit-I. (2) External expert Dr.Prakash Muthudoss suggested to remove DIBAL-H from Unit-IV.
	Inoganic Chemistry-III	(1) External expert Dr.K.Venkateshwarlu suggested to change "bioinorganic systems" to "bioinorganic compounds" in Unit-I & Unit-II headings (2) Internal member Dr.M.Nagoor Meeran suggested to add "nucleus structure" in Unit-IV heading and also in Unit-IV contents. (3) Internal member Dr.M.Nagoor Meeran suggested to remove "waste disposal management, pollution studies" from Unit-IV. (2) Internal member Dr.M.Nagoor Meeran suggested to add "radioactive decay series" in Unit-V heading and also in Unit-V contents.
	Physical Chemistry-III	(1) Internal member Prof.A.Kanni Raj suggested to add "types of adsorption isotherms" in Unit-I (2) Internal member Prof.A.Kanni Raj suggested to remove "chemical kinetics" from Unit-II heading. (3) External expert Dr.Prakash Muthudoss suggested to rename Unit-III title as "applications of group theory in spectroscopy", also Unit-IV title as "applications of quantum chemistry" and Unit-V title as "approximation methods in quantum chemistry" (4) Internal member Prof.A.Kanni Raj suggested to add DFT in Unit-V
	Inorganic Chemistry Lab	As such

On Agenda-4: M.Sc. Chemistry / I Semester / Programme Core Courses

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Organic Chemistry-I	(1) External expert Dr.K.Venkateshwarlu suggested to move "E & Z notations" from Unit-I to Unit-II.

		(2) External expert Dr.K.Venkateshwarlu suggested to correct "carbo cation" to "carbocation" in Unit-III
	Inorganic Chemistry-I	(1) Internal member Prof.A.Kanni Raj suggested to correct "p-bonding" to "π-bonding" in Unit-II (2) External expert Dr.Prakash Muthudoss suggested to correct semicolon to comma after $[Re_2Cl_8]^{2-}$ in Unit-V.
	Physical Chemistry-I	(1) Internal member Prof.A.Kanni Raj suggested to add "supercapacitors, EIS" in Unit-II. (2) External expert Dr.K.Venkateshwarlu suggested to correct Unit-III heading to "Application of Electrochemistry in Corrosion" (3) External expert Dr.Prakash Muthudoss suggested to add "IR spectra" and "Raman spectra" before corresponding contents.
	Physical Chemistry Lab	As such

On Agenda-5: M.Sc. Chemistry / Programme Elective Courses

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Chemistry of Natural Products	(1) External expert Dr.K.Venkateshwarlu suggested to change course name from "natural product chemistry" to "chemistry of natural products" (2) External expert Dr.Prakash Muthudoss suggested to remove "structure elucidation is not required" from Units I, II, III and V. (3) External expert Dr.K.Venkateshwarlu suggested to keep "proteins and vitamins" as Unit-IV and "anthocyanins and polyphenols" and Unit-V (4) External expert Dr.Prakash Muthudoss suggested to add "Vitamins" along with "Proteins" instead of "amino acids"
	Spectroscopy of Organic Compounds	(1) External expert Dr.K.Venkateshwarlu suggested to change course name from "organic spectroscopy" to "spectroscopy of organic compounds" (2) Internal member Dr.A.Silambarasan suggested to remove "all discussion on fluorescence spectroscopy" from Unit-I. (3) External expert Dr.Prakash Muthudoss suggested to rename Unit-I title as "UV-Vis spectroscopy", Unit-II title as "IR spectroscopy", Unit-III title as "Proton NMR spectroscopy" and Unit-IV title as "carbon-13 NMR spectroscopy, optical rotatory dispersion and circular dichroism" (4) Internal member Prof.A.Kanni Raj suggested to add "FT-IR" in Unit-II and to remove "solving problems with UV, IR, NMR, mass spectroscopy" from Unit-V
	Nanoscience and Nanotechnology	(1) Internal member Prof.A.Kanni Raj suggested to change Unit-I title as "Fundamentals of Nanomaterials" (2) Internal member Prof.A.Kanni Raj suggested to change split words "nano partiles, nano rods, nano shells" to single words "nano partiles, nano rods, nano shells" in Unit-I, and changed Unit-II title as "nanosynthesis" (3) External expert Dr.Prakash Muthudoss suggested to add "surface analysis" before XPS in Unit-III (4) Internal member Prof.A.Kanni Raj suggested to change "nanocomposites and selected applications" to "nanocomposites

| | | and selected applications" in Unit-I |
| | | (5) Internal member Prof.A.Kanni Raj suggested to change "key photophysical processes – current status and future trends" to "photophysical processes – Jablonski diagram" |

On Agenda-6: Ph.D. Courseworks/ Academic Year 2025-26 Summer

Course Code	Course Title	Modifications suggested in the BoS Meeting
	Quantum Crystallography	As such
	Computational Chemistry	As such
	Nanomaterials and their applications	As such
	Organic Reactions and Mechanisms	As such
	Spectroscopy and Analytical Techniques	As such
	Nanoscience and Nanotechnology	As such
	Photochemistry and Its applications	As such
	Nanophotonics and Nanotechnology	As such
	Photoscience and Its Applications	As such
	Nanomaterials: Crafting and Probing the Nanoscale	As such

Action Taken

Proposed syllabi of BTech Foundation Courses, MSc Chemistry and PhD Courseworks have been modified as per the suggestions given by the External and internal members.

Date: 16-5-2025   **Chair of BOS**

SCHOOL OF SCIENCE AND HUMANITIES
DEPARTMENT OF ENGLISH

Minutes of the 7ᵗʰ Board of Studies meeting held on 8ᵗʰ May 2025

The 7ᵗʰ Board of Studies – was held in the Language Lab (9101), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai from 11.30 a.m to 12.30 a.m and the following members were present during the meeting:

Chairman:

Dr. P.Revathi, Associate Professor and Head, Department of English, School of Science and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai.

Academic Expert (External):

Dr. J. Managayarkarasi, Dean of Academic Affairs & Head, PG and Research Department of English, Ethiraj College for Women, Chennai.

Industry Expert (External):

Mr. L. Dhanasekaran, Senior Manager (Retd.), Exams Business Development, British Council Education Private Limited, New Delhi.

Internal Members:

1. Dr. A. Prakash, Professor, Department of English, VTU, Chennai.
2. Dr. B. Yamini, Associate Professor, VTU, Chennai.
3. Dr. Priyadarshini M C, Assistant Professor, VTU, Chennai.
4. Dr. M.Vinoth kumar, Assistant Professor, VTU, Chennai.
5. Dr. A. Rajeswari, Assistant Professor, VTU, Chennai.

Stakeholders Present:

1. Mr. Chitrada Ashok (VTU 21199)
2. S. Parthasarathy (VTD 1419)
3. R. Keerthana (VTD1338)

Parents – Present:

1. Dr. Jeyaprakash S, Father of Chris Spurgeon J (VTU2910)

Others Present:

Ms. Chrispin Antonieta Dhivya, Assistant Professor, VTU, Chennai.

Dr. Murugavel S, Assistant Professor, VTU, Chennai.

Dr. B. Bairavi, Assistant Professor, VTU, Chennai.

Dr. Subha Balamurugan, Assistant Professor, VTU, Chennai.

Dr. C. Tharini, Assistant Professor, VTU, Chennai.

Dr. V R Yasu Bharathi, Assistant Professor, VTU, Chennai.

Dr. Sathish Kumar J, Assistant Professor, VTU, Chennai.

Dr. M. Vallikkannu, Assistant Professor, VTU, Chennai.

Dr. Hussain, DA Office, VTU, Chennai.

The following is the Agenda of the 7th BoS:

S. NO.	AGENDA NO.	AGENDA
1	07BoS-01	Welcome Address by the Chairman of the Board of Studies
2	07BoS-02	Discussion on the New Courses framed – B.Tech. – English for Global Careers I (25EN22201) and English for Global Careers I (25EN22202)
3	07BoS-03	Discussion on the evaluation pattern
4	07BoS-04	Discussion on the existing syllabus – PG syllabus
5	07BoS-06	Others
6	07BoS-07	Vote of Thanks

Agenda 07BoS- 01: Welcome Address by the Chairperson of the Board of Studies

Dr. Revathi.P, Head of the Department of English & Chairman of the Board of Studies, School of Science and Humanities welcomed the external & internal members and others present for the 7th Board of Studies meeting.

Discussion: The Chairman reported the academic progress and effectiveness of the *Professional Communication – II* (Course Code: 10210EN202) course, offered by the Department of English under the School of Science and Humanities, to the external members of the Board of Studies. Following a concise overview of the academic proceedings, the Chairman transferred the session to Dr. A. Rajeswari, the internal member of the Board of Studies.

Action: The Academic and Industry Experts (External Members) conveyed their appreciation and recommended to proceed with the subsequent items on the agenda.

Agenda 07BoS- 02: Discussion on the Courses framed – B.Tech. – English for Global Careers – I (25EN22201) and English for Global Careers – II (25EN22202)

Discussion: Dr. A. Rajeswari, one of the members of the Board of Studies, provided a detail overview of the introduction of two newly proposed courses – *English for Global Careers – I* (Course Code: 25EN22201) and *English for Global Careers – II* (Course Code: 25EN22202) for the first year B.Tech. Students in their first and second semester respectively, and subsequently, elucidating the reason for introduction of new courses. It was stated that the syllabi undergo updation every four years, and the newly formulated syllabi have been meticulously framed to meet with the core principles and objectives of the National Education Policy (NEP) 2020.

Action: The External Members paid keen attention to the course components, course outcomes and their corresponding knowledge levels. They understood the nuances of the newly introduced papers and its syllabus. The External Members gave the following recommendations:

➢ Recommended to equip faculty with updated teaching methodologies, assessment tools, and relevant resource materials to enhance teaching effectiveness.
➢ Suggested to organize formal/informal Faculty Development Programmes (FDPs) involving HR and recruitment specialists during campus visits to align faculty understanding with current industry expectations.
➢ Advised to coordinate with the Placement Dean to facilitate these FDPs at no additional cost, fostering mutual understanding between faculty and recruiters.
➢ Proposed to nominate faculty members for online and offline training programmes offered by reputed organisations such as:

- British Council (Teacher Support Programmes, handbooks, customised "Train the Trainer" sessions)
- Cambridge English Assessment (CELTA, DELTA qualifications)

- TOEFL Essentials (workshops and training sessions in Chennai)

➢ Recommended to partner with a reputed organisation to offer a CEFR-aligned, internationally recognised English language qualification as a value-added course for the interested students.

➢ Advised to provide orientation, training, and exam support at the institution to enhance student preparedness and employability.

➢ Suggested the university to gain Exam Centre status and access to complimentary faculty training programmes.

Agenda 07BoS- 03: Discussion on the evaluation pattern - English for Global Careers I & II (25EN22201 & 25EN22202)

Discussion: The evaluation pattern was presented to the members of the Board of Studies, accompanied by a comprehensive explanation of the marks distribution, weightage, and prioritization of the course components, as well as the methodology for calculating internal and external marks.

Action: The Board of Studies reviewed and approved the proposed evaluation pattern for *English for Global Careers I & II* (25EN22201 & 25EN22202). The external members expressed satisfaction with the structure, and the pattern was accepted as presented.

Internal Assessment Pattern
Mid Term Test – I
➢ Listening Assessment – 10 Marks
➢ Speaking Assessment – 10 Marks
          Total   - 20 Marks

Mid Term Test – II
➢ Grammar   - 10 Marks
➢ Vocabulary - 10 Marks
➢ Reading   - 10 Marks
➢ Writing   - 10 Marks
   Total   - 40 Marks (Converted to 20 Marks)

Internal Marks – MT I (20 M) + MT II (20 M) = 40 Marks

External Assessment Pattern

CO 1	Grammar and Vocabulary	12 Marks
CO 2	Reading	12 Marks
CO 3	Writing	12 Marks
CO 4	Speaking	12 Marks
CO 5	Writing	12 Marks

External Marks - 60 Marks

English for Global Careers – I (25EN22201)

Unit – 1   9 Hours
Grammar and Vocabulary

Parts of Speech – Subject-Verb Agreement – Tenses – Framing Questions – Question Tags – Affixes – Prefix and Suffix – Compound nouns – Homophones, Homonyms and Homographs - Idioms and Proverbs – Phrasal Verbs

Unit – 2   9 Hours
Reading

Reading and its types – Comprehending Essays – Comprehending an Article – Comprehending Literary Excerpts – Comprehending an a Pie Chart/bar diagrams

Unit – 3   9 Hours
Writing

Letter Writing – Formal and Informal – Punctuations – Report Writing – Accident and Feasibility Reports – Poetry Appreciation – Ozymandias by P B Shelly – Thirukkural – Chapter 40: Learning – Where The Mind Is Without Fear by Rabindranath Tagore – Instructions/ Recommendations and Process Description

Unit – 4   9 Hours
Speaking

Self-Introduction – Sharing Experiences – Role-Play – Picture and Data Interpretation – Non-Technical Presentation

Unit – 5   9 Hours
Listening

Hearing Vs Listening – Active Vs Passive Listening – Barriers to Listening – Listening to Great Speeches – Listening to TED Talks

English for Global Careers – II (25EN22202)

UNIT I
Grammar and Vocabulary   **9 Hours**
Voices – Abbreviations and Acronyms – Articles – Prepositions – Determiners – Logical Sequence
of Sentences – Modal Verbs – Verbal Analogy – If Conditionals – One Word Substitute
- Types of Sentences Technical Vocabulary

UNIT II   **9 Hours**
Reading
Comprehending Newspaper Articles - Comprehending Research Articles - Comprehending
Advertisements - Comprehending Sports Column - Comprehending Statistical Data

UNIT III   **9 Hours**
Writing
E-Mail Writing – Resume and Job Application Letter – Checklist and Itinerary Writing – Blog
Writing – Minutes of Meeting – Research Article Writing – Forms, Formats and Elements.

UNIT IV   **9 Hours**
Speaking
Group Discussion – Debate – Mock Interview/Online Interview – Extempore Speech – Technical
Presentation

UNIT V   **9 Hours**
Listening (Digital Literacy)
Listening to Conversations – Listening to Enquiries – Listening to Academic Discussions –Listening
to Animated Movies – Listening to Interviews

Agenda 07BoS- 04: Discussion on the existing syllabus – PG syllabus

Discussion: Dr. Murugavel S, PG Coordinator discussed the existing PG courses offered by the Department and their respective credits in alignment with the regulation were discussed in detail in order to give clarity on how the course and the papers offered help in catering to the needs of the M.A. English students in terms of Language, Literature, Culture studies, Life skills and Open Elective subjects. The components of each paper, its course outcomes and the corresponding knowledge levels were explained.

Action: The External Members of the BoS accepted the existing syllabus for the PG –W.E.F. the Winter Semester of AY 2025-2026.

Agenda 07BoS- 05: Others

Dr. Vinoth Kumar M, a member of Board of Studies proposed five new guide papers for Ph.D scholars to incorporate into their coursework for the upcoming semester.

The following are the papers proposed by the board.

S. No	Course Code	Course Name	Comments
1	40211EN109	Marine Fiction and Blue Ecologies: Posthumanism, Resistance, and Spiritual Waters in the 21st Century	The members reviewed and approved the syllabus.
2	40211EN110	Speaking Sills in ELT: Theory, Practice, and Pedagogy	The syllabus is well-structured and it can be implemented.
3	40211EN111	Queer Studies and Theories	The syllabus is well-structured and it can be implemented.
4	40211EN112	Modern Poetry and Modernism	The syllabus is well-structured and it can be implemented.
5	40211EN113	Advanced Writing Skills in English Language Teaching	The syllabus is well-structured and it can be implemented.

Action: The Academic experts carefully examined the syllabi and found the syllabi to be prompt and sufficing. Common instructions on finding appropriate research methodology and doing an extensive study on the texts taken in order to carry out a lucid research were given by the experts. The board agreed to follow the instructions.

Dr. Priyadarshini M C, Member of Board of Studies proposed the vote of thanks and the meeting came to an end at around 12.30 p.m.
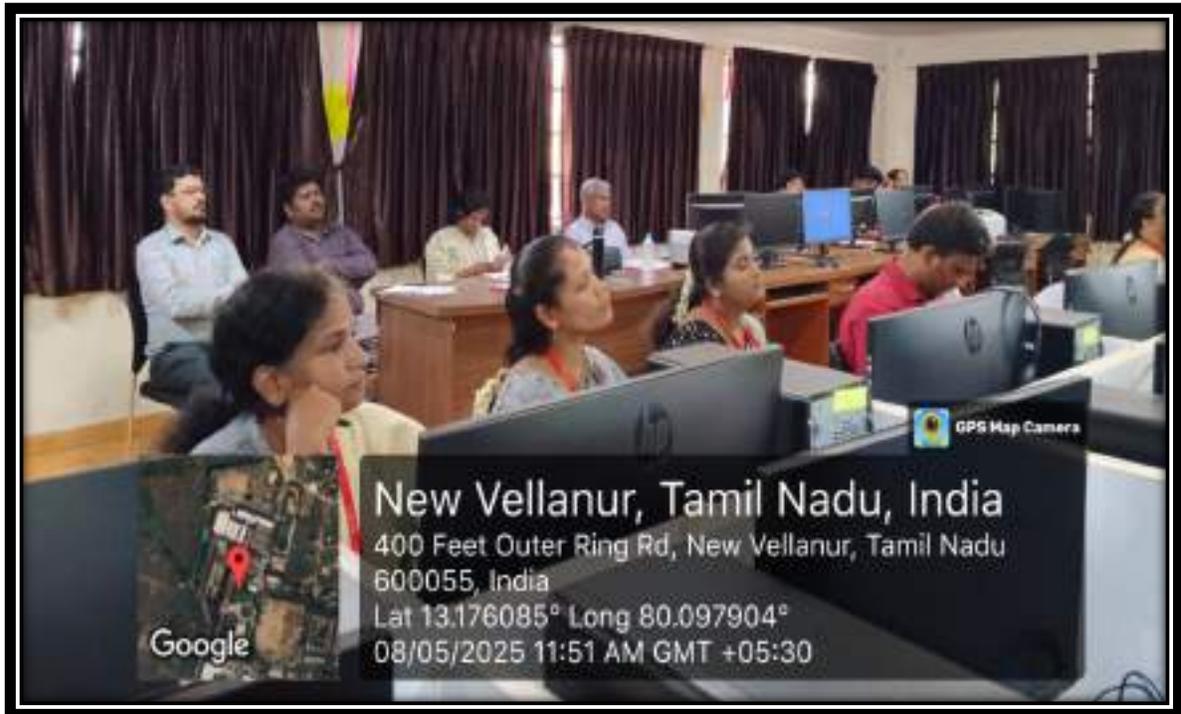
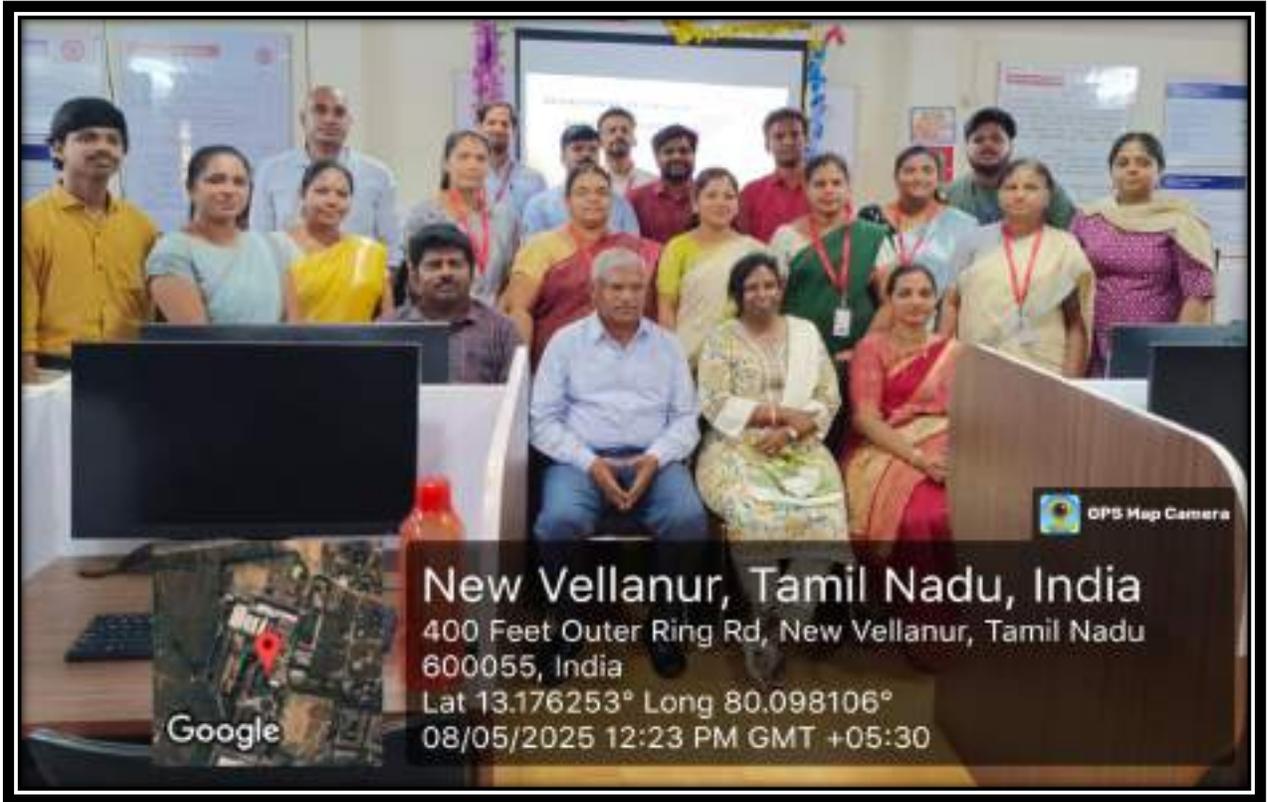Date : 08.05.25   Chairman- BoS

Meeting Photos

New Vellanur, Tamil Nadu, India
400 Feet Outer Ring Rd, New Vellanur, Tamil Nadu
600055, India
Lat 13.176191° Long 80.097955°
08/05/2025 11:50 AM GMT +05:30

Curriculum Presentation – Dr. A. Rajeswari

External BoS Members, Alumni and Stakeholders -Parents attending the Meeting

Faculty Members attending the BoS Meeting

BoS Members, Alumni and Faculty

➢ **Enclosed:**
    English for Global Careers – I Syllabus
    English for Global Careers – II Syllabus
    Ph.D. Syllabus

SCHOOL OF SCIENCES AND HUMANITIES

DEPARTMENT OF ENGLISH

7TH BOARD OF STUDIES MEETING

Held on

08.05. 2025

Academic Year 2025-2026

School of Management

Department of Management Studies

30th BOARD OF STUDIES MEETING

on

10th May 2025, Saturday 10.00 AM

Venue: 24202 – Conference Hall

30th Meeting of Board of Studies
For Department of Management Studies

INDEX

School of Management

Department of Management Studies

30th BOARD OF STUDIES ON 10.05.2025

Date: 10.05.2025, 10 AM   **Venue: 24202 Conference Hall**
Online Meeting link:
https://teams.microsoft.com/l/meetup-
join/19%3ameeting_ODY1MGMzOWUtOGQzNC00NTdjLWJlMjItNDE1Y2RiZTE1N2Jl
%40thread.v2/0?context=%7b%22Tid%22%3a%22bd141979-b7f0-4ed6-947d-
a011b8c0f60e%22%2c%22Oid%22%3a%227f7d4a6a-1b2c-4907-8115-
75a8b2c11359%22%7d

AGENDA OF THE MEETING

Dr. K. Ravishankar, Head – Department of Management Studies, opened his speech by welcoming the members.

1. Dr. Chandrahauns Rajaram Chavan, Senior Professor & Former Director, Jamnalal Bajaj Institute of Management Studies, University of Mumbai, Maharashtra, India.

2. Dr. Mahendran Chandrasekaran, Chief Human Resource Officer, Fuso Class India Pvt. Ltd., India.

3. Mr. Pradyumn Singh Chauhan, Campus Recruiting Analyst, Accenture Solutions Pvt. Ltd., New Delhi, India.

AGENDA	ITEMS FOR CONFIRMATION
30 BoS 01	Welcome address
30 BoS 02	Presentation about the department.
30 BoS 03	To confirm the minutes of meeting of the 29th BoS held on 08.02.2025.
30 BoS 04	Action taken report on minutes of 29th BoS meeting.
30 BoS 05	To record leave of absence of members.
ITEMS FOR CONSIDERATION AND APPROVAL	
30 BoS 06	To discuss and approve M.B.A. Programme contents for III Semester under Regulations VTR PGM-2024. (For Batch: 2024-26 / Academic Year: 2025-26).
30 BoS 07	To discuss and approve M.B.A. Programme contents for I Semester under Regulations VTR PGM-2024. (For Batch: 2025-27 / Academic Year: 2025-26).
30 BoS 08	To discuss and approve Ability Enhancement Course/Skill Enhancement Course/ Open Elective Course under Regulations VTR PGM-2024 for Academic Year: 2025-26.

30 BoS 09	To discuss and approve International Internship / Semester Abroad Program for Academic Year: 2025-26.
30 BoS 10	Recommended MOOC courses under self-learning courses for the AY 2025– 26.
ITEMS FOR DISCUSSION AND RATIFICATION	
31 BoS 11	Approval of MOOC Courses completed under self-learning courses for the Academic Year: 2024 – 25.
ITEMS FOR REPORTING AND RECORDING	
30 BoS 12	Admission activities proposed for the academic year 2025-26.
30 BoS 13	Result, CO PO attainment for AY 2023-24 and improvement strategy taken for Academic Year: 2025-26.
30 BoS 14	Programme conducted/ Faculty and Students achievements/Activities
30 BoS 15	Received NBA Accreditation
30 BoS 16	MoU Signed
30 BoS 17	Consultancy Projects
30 BoS 18	An overview of Ph. D. Research Scholars.
30 BoS 19	Any others

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

School of Management

Department of Management Studies

30th Board of Studies on 10.05.2025

Members Present

S.NO	Details	Designation	Signature
1	Dr. K. Ravishankar, Professor & Head, Department of Management Studies	Chairman, Board of Studies	
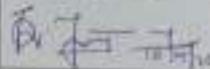
External Experts

S. No.	Details	Designation	Signature
1	Dr. Chandrahauns Rajaram Chavan, Senior Professor & Director (2006-09 & 2015-18) Jamnalal Bajaj Institute of Management Studies, (JBIMS) University of Mumbai, Mumbai	Academic Expert	
2	Dr. Mahendran, Chief Human Resource Officer, Fuso Glass India Ltd.	Industry Expert	
3	Mr. Pradyumn Singh Chauhan Senior Campus Recruiter, Virtusa Consulting Private Limited.	Alumni Expert	

Internal Experts

S. No.	Details	Designation	Signature
1	Dr. M.S.R. Mariyappan, Dean, School of Management	Member	
2	Dr. K.R.Sowmya, Professor, Department of Management Studies	Member	
3	Dr. R. Sankar Ganesh, Associate Professor, Department of Management Studies	Member	
4	Dr. S. Raja, Associate Professor, Department of Management Studies	Member	
5	Dr. M. Rajapriya, Assistant Professor, Department of Management Studies	Member	
6	Dr. P. Tamilselvan, Assistant Professor, Department of Management Studies	Member	
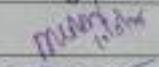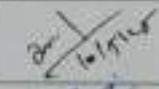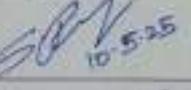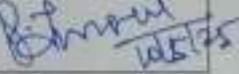
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5

School of Management

Department of Management Studies

30th BOARD OF STUDIES ON 10.05.2025

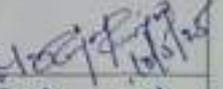Date: 10.05.2025   Time – 10.00 AM   Venue: 24202- Conference Hall

Item No	Minutes of the 30th Board of Studies Meeting
A. OPENING	
30 BoS 1	Invitation to BoS Members for the 30th BoS meeting.
Action Taken:	The BoS Coordinator invited the Experts for the meeting that was scheduled on the 10th May 2025 at 10 am, in the Conference Hall through e-mail, the members confirmed their acceptance. **[Annexure 1]**
30 BoS 2	To review the Action Taken Report on the minutes of the 29th meeting of the Board of Studies.
Resolution	The members reviewed and accepted the action taken report on the decisions of 29th BoS meeting minutes held on 08.02.2025. **[Annexure - II]**
B. ITEMS TO BE CONSIDERED	
30 BoS 3	To discuss the stakeholders feedback on curriculum taken during the Winter Semester AY 2024-2025.
Discussion	The Chairman presented the Feedback on curriculum received from various stake holders and action taken with respect to feedback. Pre-BoS was conducted in which the review of the syllabus was done by Industry expert, Alumni Expert along with Module Coordinators, BoS Coordinator and the HoD. The same was presented for the consent of the BoS members. DAC meeting was conducted along with faculty members under the headship of the chairman in order to discuss the stakeholders' feedback and Pre BoS members' suggestions. Members appreciated the efforts taken for collecting the feedback and also for the action taken by including the suggestions in the Curriculum.
Resolution	The suggestions offered are accepted by the BoS members. **[Annexure - III]**
C. ITEM FOR APPROVAL	
30 BoS 4	To discuss and approve M.B.A. Programme contents for III Semester under Regulations VTR PGM-2024. (For Batch: 2024-2026 / AY 2025-26).
Discussion	BoS Members discussed the detailed syllabus of all the courses offered in the III Semester. **Semester III- Course Details** (table below)

S. No.	Course Code	Course Title	Type	L	T	P	C
1		Programme Core 1	PC	3	0	0	3
2		Programme Elective – I	PE	3	0	0	3
3		Programme Elective – II	PE	3	0	0	3
4		Programme Elective – III	PE	3	0	0	3

5		Programme Elective – IV	PE	3	0	0	3
6		Programme Elective – V	PE	3	0	0	3
7		Programme Elective – VI	PE	3	0	0	3
8		Summer Internship	IL	0	0	6	3
9		Ability Enhancement course – III	AEC	1	0	0	1
10		Skill Enhancement Course – III	SEC	0	0	2	1
Total Credits							**26**

1. International Business Management
- Unit 3 – Add DGFT, EXIM procedures and Acts

2. Digital Marketing Electives

A. Add Case Studies all the six courses in Unit V.

3. Finance Elective

A. Investment Analysis and Portfolio Management
- Unit 4 - Add SEBI Legal and Regulatory Framework

B. Financial Risk Analytics
- Unit 3 - Add IRDA

4. Human Resource Management Electives

A. Change Management
- Unit 1, 2 & 3 - Include Case studies.

B. HR Metrics and Analytics
- Unit 2 – Add HR Audit specific to Internal and External audit, Benchmarking and Competencies.

C. Cross Cultural Management
- Experts could be engaged to make this course more effective.
- Unit 5 – Add 360 Degree Cultural Awareness Training

D. Industry Psychology
- Unit 1– Add general psychology

D. Learning and Development
- Unit 5– Add Multiskilling,

5. Business Analytics Electives
Include at least two case studies in all the courses.

A. Enterprise Resource Planning
- Organize Practical Training session for one day viz., Zoho ERP, Kylas etc.

B. Information Security and Risk Management
- Unit 4 - Add Information audit

6. Logistics and Shipping management Electives

	A. Maritime Law and Insurance • Unit I – Add Indian Laws **B. Air Cargo Management** • Unit 3 – Add Authority **C. Distribution and Warehouse Management** Unit 4 – Add Outsourced Warehouse Management, SLA of Warehouse Management and SAP of Warehouse Management.
Resolution	The proposed suggestions were approved and incorporated in the curriculum. **[Annexure- IV]**
30 BoS 5	To discuss and approve M.B.A. Programme contents for I Semester under Regulations VTR PGM-2024. (For Batch: 2025-2027 / Academic Year: 2025-2026).
Discussion	The course content of the M.B.A. Programme contents for I Semester under Regulations VTR PGM-2024. (For Batch: 2025-2027 / Academic Year: 2025-2027) was presented for the approval of the BoS members. The members recommended following suggestions for the I Semester courses as follows, BoS Chairman explained about the subjects.

S. No.	Course Code	Course Title	Type	L	T	P	C
1	30243MG101	Fundamentals of Management and Organizational Behaviour	PC	3	0	0	3
2	30243MG102	Fundamentals of Business Law	PC	3	0	0	3
3	30243MG103	Managerial Economics	PC	3	0	0	3
4	30243MG104	Quantitative Techniques for Managers	PC	3	1	0	4
5	30243MG105	Accounting for Management	PC	3	1	0	4
6	30243MG106	Startups and Entrepreneurship	PC	3	0	0	3
7	30245MG101	Artificial Intelligence and Cyber Security	OE	0	0	6	3
8	30249MG101	Managerial Communication	AEC	1	0	0	1
9	30246MG301	Information Technology for Managers	SEC	0	0	2	1
10	30247MG801	Extension activity – Rural Development Programme	EA	0	0	2	1
		Total Credits					**26**

A. Fundamentals of Management and Organizational Behaviour
• Unit 3, 4 & 5 – Add Case Studies.

B. Fundamentals of Business Law
• Unit 3 – Add Labour codes

C. Quantitative Techniques for Managers
• Unit 1 – Add introduction to data
• Unit 5 – Add general information about Regression

D. Accounting for Management
• Unit 1 – Add (P&L) after Profit and Loss Account
• Unit 2 – Add KPI

	E. Startups and Entrepreneurship • Unit 5 – Reframe the entire unit and add Government Schemes especially Central Government for Startups • Expert Talk could be organized as 1 hour session.
Resolution	The proposed recommendations were approved and incorporated in the curriculum **[Annexure - V]**
30 BoS 6	To discuss and approve Ability Enhancement Course/Skill Enhancement Course/ Open Elective Course under Regulations VTR PGM-2024 for Academic Year: 2025-26.

Discussion	The courses contents for Ability Enhancement Course (AEC)/Skill Enhancement Course (SEC)/Open Elective Course (OEC) under Regulations VTR PGM-2024.
	Academic Year: 2024-2025 was presented.
	The BoS members proposed the inclusion of an additional course beyond the curriculum and recommended a one-credit SWAYAM/NPTEL course as an Ability Enhancement course for the III Semester of the II MBA Batch 2025-26. The Experts accepted the listed courses contents.
	The following Ability Enhancement Courses (AEC), Skill Enhancement Courses (SEC), and Open Elective Courses (OEC) have been finalized for the MBA Programme for the Academic Year 2025–26:
	II MBA – Academic Year 2025–26
	• **AEC**: MOOC courses from NPTEL (Refer Annexure VIII)
	• **SEC**: Cognitive Ability
	I MBA – Academic Year 2025–26
	• **AEC**: Managerial Communication
	• **SEC**: Information Technology for Managers
	• **OEC**: Students can choose any one of the following:
	    ➢ Artificial Intelligence and Cyber Security
	    ➢ Sustainability and Energy Management
	    ➢ Introduction to Business Analytics
	It was communicated to the students that OEC can be opted from any of the listed subjects, and AEC, SEC, and OEC can also be pursued through MOOC platforms as applicable.

Resolution	The BoS members approved the AEC, SEC and Open Elective courses and its contents. **[Annexure VI]**
30 BoS 7	To discuss and approve International Internship / Semester Abroad Program for Academic Year: 2025-26.
Discussion	The BoS chairman discussed the established practice of sending students abroad for international internships, semester exchange programs, and similar opportunities. The list of students who have participated and those who are yet to participate in the International Academic Exchange Program was presented for approval. The minutes of meeting for each exchange programme is discussed in detail. (**attached as Annexure VII**) • Ms. Anitha Marimuthu was chosen as International Academic Exchange student from 11th January 2025 to 20th June 2025 at Providence University, Taiwan. • Ms. Saadhika. K of 2nd year MBA was chosen for Research Based Project starting from March 2025 to August 2025 at USIM, Malaysia. • Ms. Kiran Joshna and Nr. Keerthi Josh from I MBA A section are going to University of Malaya, in Malaysia for pursuing Semester Abroad Program from the month August 2025 to January 2026. The following 9 students are going to pursue Semester Abroad Program at INTI International University, Malaysia from 2nd September 2025 to 17th December 2025.

S.NO	VTP No	Student Name
1	VTP4266	S. Karthikeyan
2	VTP4304	S. Subash
3	VTP4292	S. Syed Farhan
4	VTP4284	P.A.A. Aakash Ramanan
5	VTP4251	Sindhujaa R C
6	VTP4280	V. Malarvani
7	VTP4250	B. Liphika
8	VTP4362	K. Veera Raghava Sai
9	VTP4244	Sasidharan S.

Additionally, another ten students have expressed their interest in pursuing HR elective courses at Multimedia University (MMU), Malaysia. Their subjects have been finalized and appropriately mapped to the HR elective category. These students will spend one month at MMU to complete four HR elective courses. The exact dates of the program will be confirmed shortly.

S.No	VTP No	Student Name
1	VTP4264	Kunal Singh
2	VTP4295	Pulagam Geethanjali
3	VTP4290	Aishwarya R.
4	VTP4277	Prabha C.
5	VTP4276	Pratheepa C.
6	VTP4283	Robina A.
7	VTP4474	Bala Yogesh M.
8	VTP4288	Ranjith K.
9	VTP4261	Santhosh S.
10	VTP 4294	Hemnath D

Resolution	The BoS members approved and appreciated the initiative. **[Annexure – VII]**
30 BoS 8	Recommended MOOC courses under self-learning courses for the AY 2025– 26.
Discussion	The Chairman presented the list of NPTEL courses related to Business and Management. The BoS members reviewed the courses and suggested that students may take management-related subjects offered through SWAYAM/NPTEL platforms.
Resolution	The Board of Studies approved and recommended that students undertake management-related courses through SWAYAM/NPTEL as part of their curriculum enrichment. **[Annexure – VIII]**

D. ITEMS FOR DISCUSSION AND RATIFICATION

30 BoS 9	Approval of MOOC Courses completed under self-learning courses for the AY 2024 – 25.
Discussion	The Chairman presented the list of MOOC courses completed under self-learning courses for the AY 2024-25

Sl. No.	Name of the Courses
1	AI in Marketing
2	Brand Management
3	Business Forecasting
4	Customer Relationship Management
5	E-Business
6	Economics of Banking and Finance Markets
7	Enhancing Soft Skills and Personality

	8	Foundation Course in Managerial Economics
	9	Human Behaviour
	10	Innovation, Business Models and Entrepreneurship
	11	International Marketing
	12	Introduction to GST
	13	Investment Management
	14	Leadership and Team Effectiveness
	15	Leadership for India Inc: Practical Concepts and Constructs
	16	Organizational Behaviour
	17	Project Management
	18	Sales and Distribution Management
	19	Soft Skill Development
	20	Talent Acquisition and Management
Resolution		The BoS members approved the above MOOC courses completed under self-learning courses for the AY 2024-25.

E. ITEMS FOR REPORTING AND RECORDING

30 BoS 10	Admission activities proposed for the academic year 2025-26.
Discussion	The BoS chairman presented the admission activities proposed for the academic year 2025-26.
Resolution	The BoS members acknowledged and appreciated the admission process. [Annexure - IX]
30 BoS 11	Result, CO PO attainment for AY 2023-24 and improvement strategy taken for academic year 2025-26.
Discussion	

MBA - Overall Pass Percentage

Year	Batch	Semester	% of Pass
I MBA	2024-2025	I Sem	99

Overall POs Attainment - AY 2023 - 24							
POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
80% from Direct Attainment	2.03	1.91	1.87	1.96	1.84	1.94	1.89
20% from Indirect Attainment	0.56	0.55	0.53	0.52	0.48	0.53	0.53
Overall POs Attainment	2.59	2.46	2.41	2.48	2.32	2.48	2.42

Resolution	The BoS Members appreciated the above results and CO PO attainment for AY 2024-25.
30 BoS 12	Programme conducted/attended by Faculty and Students achievements.
Discussion	The BoS chairman presented the programme conducted/attended by Faculty and Students achievements.
Resolution	The BoS Members appreciated the faculty achievements and student publications. [Annexure - X]
30-BoS-13	Received NBA Accreditation
Discussion	The BoS chairman presented that the department got NBA accreditation for 3 years.
Resolution	The BoS Members appreciated the team efforts of the entire department. [Annexure - XI]
30 BoS 14	MoU Signed

Discussion	The BoS chairman made a brief presentation about the MoU to be signed with Thirumullaivoyal Women's SIDCO Industrial Manufacturers Association by the department on 15th May 2025. This initiative will result in increased student participation in internships, technical training programs, industrial visits, guest lectures, and the organization of credit courses.
Resolution	The BoS Members appreciated the initiative taken by the department **[Annexure – XII]**
30 BoS 15	Consultancy Projects
Discussion	The BoS Chairman presented the list of consultancy projects undertaken for the AY 2024-25

S. No.	VTP	Students Name	Faculty Guide	Industry Name	Type of Industry	Type of Project
1.	4250	Liphika B.	Dr. R. Sankar Ganesh Associate Professor	S.R. Industries	Auto Components	Time Study, Documentations
	4280	Malarvani V.				
	4244	Sasidharan S.				
	4240	Rohith R.				
	4243	Hrithik Roshan				
2.	4320	Uma Devi S.	Dr. S. Raja Associate Professor	Kumaran Shapes & Gasket	Temperature Insulation Products	Time Study, Documentations
	4327	Pooja E.				
3.	4326	Aveline Selshya C.	Dr. P. Tamilselvan Assistant Professor	Lakshmi Industry	CNC Auto Turned & VMC Machined Components	Time Study, Documentations
	4335	Dhanalakshmi G.				
4.	4270	Kamali B.	Dr. R. Lumina Julie Assistant Professor	Aishwarya Enterprises	Precision Press Tools & Components	Time Study, Documentations
	4300	Kishore Kumar J.				
5.	4290	Aishwarya R.	Dr. G. Manoj Associate Professor	SARA Household Products	Household Products Manufacturer	Time Study, Production SOP, Documentations
	4236	Aiswarya Lakshmi S.				

Resolution	The BoS Members appreciated the initiative taken towards research.
30 BoS 16	An overview of Ph. D. Research Scholars.
Discussion	The BoS chairman presented an overview of Ph. D. Research Scholars.

Total Research Scholars: 40			
Nationality	**Full Time**	**Part time**	**Total**
Indian	3	35	38
International	2	0	2
Total	5	35	40

		Completion of Synopsis meeting	
	S. No.	VTD No.	Name of the Research Scholar
	1	575	SARADASIVA REDDY K.
Resolution	The BoS members appreciated the information about research scholars.		
29-BoS-16	Any others		
Discussion	Nil		
Resolution	Nil		

Vote of Thanks

The Academic Expert recommended incorporating Technology alongside Business Analytics, proposing a specialization in Business Analytics and Digital Business. He emphasized the need to enhance courses by engaging Industry Experts and introducing Industry-based certification programs.

The Industrial Expert commended the syllabus for its quality and suggested inviting subject specialists to lead courses like Industrial Psychology. He personally felt honoured to be a part of our BoS members.

The Alumni Expert shared his happiness about the department's progress, praising the efforts toward International Internship and Semester Abroad programs. He expressed gratitude for being included in the BoS meeting and acknowledged the department's initiatives with appreciation.

The Dean of the School expressed gratitude to all the BoS members for their insightful contributions in refining the courses. The Head of the Department acknowledged the unwavering support of the Management in achieving NBA Accreditation. He also extended his appreciation to the BoS members for their invaluable efforts in shaping the curriculum.

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

NAAC A++

CATEGORY-1 DEEMED TO BE UNIVERSITY by the UGC

Date:
23 – May - 2025

Academic Calendar

For All Higher Semester Students (3/5/7/9(Law)) – B.Tech., / B.Com., / B.B.A., / B.Sc., / B.A. LL.B. (Hons.),/B.Com. LL.B. . (Hons.),/M.Tech., / M.Sc., / M.A., / M.B.A.

Academic Year 2025-26

Particulars	SUMMER SEMESTER	WINTER SEMESTER
Commencement of Semester Registration and Course Registration	26 May 25	24 Nov 25
Last Date for Semester Registration and Course Registration / withdrawal of course(s)	13 Jul 25	08 Dec 25
Last Date for Semester Registration (with late fee) and Course Registration and **Commencement of Class Works**	21 Jul 25	15 Dec 25
Commencement of Test - 1	21 Aug 25	30 Jan 26
Commencement of Test - 2 / Commencement of Mid Term Test - 1	25 Sep 25	04 Mar 26
Commencement of Test - 3 / Commencement of Mid Term Test – 2 / Commencement of Model-Practical Exams	23 Oct 25	01 Apr 26
Last Instructional Day	05 Nov 25	15 Apr 26
EXAMINATIONS		
Publication of Eligible List	07 Nov 25	17 Apr 26
Semester End Laboratory Examinations	10 Nov 25	20 Apr 26
Commencement of Semester End Theory Examinations	17 Nov 25	27 Apr 26
HOLIDAYS		
LIST OF PUBLIC HOLIDAYS	AS PER TAMIL NADU STATE GOVERNMENT PUBLIC HOLIDAYS	
Pongal Holidays (14 days)	08 Jan 26 to 21 Jan 26	

Commencement of the Next Academic Year (2026-27) is 01 July 2026 (Tentatively)

Prof. (Dr). Raju Shanmugam
Dean - Academics

Prof. Rajat Gupta
Vice Chancellor

Welcome

49th ACM

Presented By

Prof. (Dr). S. Raju

Dean (Academics)

24th May 2025, Saturday

400 feet Outer Ring Road, Avadi, Chennai-600 062, Tamil Nadu, India | www.veltech.edu.in | 1800 2127 669

Office of the Dean Academics Extend a Warm Welcome to all the Members of Academic Council

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Academic Regulations

VTR UGE 2025

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Office of the Dean Academic

Revision of Academic Regulations for B.Tech.

Current Regulations
- B.Tech. Regulations VTR UGE 2021

Previous Regulations
- B.Tech. Regulations VTUR15
- B.Tech. Regulations 2013
- B.Tech. Regulations 2009

Proposed Regulations
- B.Tech. Regulations VTR UGE 2025
  - Present Regulations completes 4 Years
  - Revision is required to incorporate Components of NEP 2020 as applicable

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Office of the Dean Academic

VTR UGE – 2021 Vs VTRUGE 2025

S. No.	Academic Components of NEP 2020	VTR UGE 2021	VTR UGE 2025
1	Outcome Based Education (OBE)	Yes	Yes
2	Multidisciplinary Programmes	Yes	Yes
3	Interdisciplinary Courses/Programmes	Yes	Yes
4	Ability Enhancement Courses (AEC)	No	Yes
5	Skill Enhancement Courses (SEC)	No	Yes
6	Value Added Courses (VAC)	Yes, No Credits	Yes, With Credits
7	Activity Based Learning	Yes	Yes, More Focus
8	Project Based Learning (PBL)	Yes	Yes, More Focus
9	Curriculum Revision to include Courses with Industry Modules	Yes	Yes, More Focus
10	Collaboration with Industry	Yes	Yes
11	Semester Abroad Programme (SAP)	Yes	Yes, More Focus

Office of the Dean Academic

VTR UGE – 2021 Vs VTRUGE 2025

S. No.	Academic Components of NEP 2020	R2021	R2025
12	Collaboration with Institutions Abroad	Yes	Yes, More Focus
13	Semester Long Internship with Industry	No	Proposed
14	Environmental Studies and Sustainable Development Goals	Yes	To be Revised
15	Value Based Education to include Courses: Ethics and Values, Constitutional and Universal Human Values	Yes	To be Revised
16	Emerging technology – Skill Enhancement courses - AI, ML, G-AI, 3D-Pr., BI, Cyber Security etc.	Yes	Yes, More Focus
17	Accumulation of Credits through Academic Bank of Credits (ABC) / Automated Permanent Academic Account Registry (APAAR)	No	Yes
18	Promoting research culture at UG Level with credit transfer	Yes	Yes, To Have Cr.
19	Learning Modern Indian Languages and Foreign Languages	Yes	Yes, More Focus
20	Migration	Yes	Yes
21	Multiple Entry Multiple Exit	No	Yes

Academic Regulations - VTR UGE - 2025

B.Tech. Programmes Offered

1. B.Tech. Aeronautical Engineering
2. B.Tech. Artificial Intelligence (AI) And Data Science
3. B.Tech. Artificial Intelligence and Machine Learning
4. B.Tech. Biomedical Engineering
5. B.Tech. Biotechnology
6. B.Tech. Civil Engineering
7. B.Tech. Computer Science and Engineering
8. B.Tech. Computer Science and Design
9. B.Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning)
10. B.Tech. Computer Science and Engineering (Cyber Security)
11. B.Tech. Computer Science and Engineering (Data Science)
12. B.Tech. Electrical and Electronics Engineering
13. B.Tech. Electronics and Communication Engineering
14. B.Tech. Information Technology
15. B.Tech. Mechanical Engineering

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Office of the Dean Academic

Academic Regulations - VTR UGE - 2025

Multidisciplinary

(a). Programmes Offered by Schools of the Institute: Engineering and Tech, Science, Commerce, Arts, Management (Multidisciplinary)

(b). Multidisciplinary Programmes: Major, Major with Specialisation, Major with Honours, Major-Minor, etc.

(c). Multidisciplinary Courses: Basic Sciences, Basic Engineering, Programme Core, Programme Electives, Open Electives, SEC, AEC, VAC, IHL, ILC etc.,

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Office of the Dean Academic

Academic Regulations - VTR UGE - 2025

Interdisciplinary
Interdisciplinary Programmes:
Foundation Courses - [Physics, Mathematics, Chemistry etc.],
Major/Specializations Courses –
Computing to AI, ML, DS, Cyber Security etc.,
Electronics Engineering to AI and Cyber Security etc.,
Electrical Engineering to EV Tech.,
Focus on Co-curricular and Extra Curricular and internships, Major and Minor Projects (Makes UG Programmes Interdisciplinary.
Open Elective Courses: Inter-Department Collaborative Courses

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Office of the Dean Academic

Academic Regulations - VTR UGE - 2025

Ability Enhancement Courses (AEC) (4 Credits) (New)
Ability Enhancement Courses (AEC) under the National Education Policy (NEP) 2020 are designed to
• Enhance students' skills and abilities in areas like
• Professional Communication
• Critical Thinking, and practical application
• Mandatory for All Disciplines

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Academic Regulations - VTR UGE - 2025

Skill Enhancement Courses (SEC) (4 Credits) (New)

- **Focus on Offering Cognitive Ability Courses**

  1. Development of Essential Employability Skills: These courses are crucial for problem-solving, teamwork, and decision-making in the workplace
  2. Flexible, Career-Oriented Learning Pathways
  3. Industry-Relevant Training with Recognized Certification

- Professional Proficiency Courses (PPC) for Enhancing Employability

  1. The Professional Proficiency Courses to be offered in four different semesters as mandatory credit courses, starting from third semester. These courses offered in this category are relevant to professional proficiency.
  2. To equipping students with practical skills
  3. Bridging the Gap: They help bridge the gap between academic learning and industry requirements

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Academic Regulations - VTR UGE - 2025

Value Added Courses (VAC) (4 Credits (New) (Existing in R2021 without Credits)

- Value Added Courses (VACs) under the National Education Policy (NEP) 2020 are designed to enhance student development and employability by supplementing core academic curricula

- 4 courses each carrying 1 credit offered in different semesters Offered by the department

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Academic Regulations - VTR UGE - 2025

Course Credit Hours - Notional Credit Hours (As per the National Credit Framework - NCrF)

Credit-Hour Mapping for different type of Courses

Course Type	Lectures (L)	Tut (T)	Lab (P)	Hours / Week	Cr. (C)	Hrs. / Sem	Self Learning	Tot. Hrs.
Theory	4	-	-	4	4	60	60	120
Theory +Tutorial	3	1	-	4	4	60	60	120
Theory (D) + Practical	3	-	2	5	4	75	45	120
Theory + Practical (D)	2	-	4	6	4	90	30	120
Theory	3	-	-	3	3	45	45	90
Theory +Tutorial	2	1	-	3	3	45	45	90
Theory +Tutorial	2	-	2	4	3	60	30	90
Theory +Tutorial	1	-	4	5	3	75	15	90
Theory	2	-	-	-	2	30	30	60
Practical	-	-	4	4	2	60	-	60
Theory	1	-	-	1	1	15	15	30
Project	-	-	2	2	1	30	-	30

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Academic Regulations - VTR UGE - 2025

MINIMUM/ MAXIMUM CREDIT LIMITS FOR COURSE REGISTRATION IN A SEMESTER

- Academic Year – Semester Pattern
- Two Semesters:
  - Summer Semester – July to December
  - Winter Semester – Jan to June
- Academic Calendar as approved by AC
- Semester Registration for all students as per Academic Calendar
- Minimum: 21 Credits and Maximum: 25 Credits
- Maximum Credits Limit increased to 31 Credits for Honours and Minor Degree Students

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COURSES CATEGORIZATION OF B.TECH. PROGRAMMES – CREDITS DISTRIBUTION

B.Tech. Programme (Regular) (VTR UGE 2021

Section Number	Course Category	Minimum Credits Required
7.2.1	Foundation Courses (FC)	56
7.2.2	Programme Core (PC)	58
7.2.3	Programme Elective (PE)	18
7.2.4	Open Elective (OE)	12
7.2.5	Independent Learning (IL)	14
7.2.6	Industry/Higher Institute Learning Interaction (IHL)	2
7.2.7	Professional Proficiency Courses (PPC)	4
	Total	164

COURSES CATEGORIZATION OF B.TECH. PROGRAMMES – CREDITS DISTRIBUTION

B.Tech. Programme (Regular) — 165 Credits

S. No.	Name of the Category		Cr.
1	Foundation Core Courses (FCC)		49
	a) Basic Science Courses (BSC)	24	
	b) Engineering Science Courses (ESC)	18	
	c) Humanities & Social-Science Courses (HSC)	7	
2	Programme Core Courses (PCC)		58
3	Programme Elective Courses (PEC)		21
4	Open Elective Courses (OEC)		9
5	Independent Learning Courses (ILC)		14
	• Community Service Project (CSPP)	1	
	• Minor Project	2	
	• Summer Internship	2	
	• Major Project	9	
6	Industry / Higher Institute Learning (IHL)		2
7	Ability Enhancement Courses (AEC)		4
8	Skill Enhancement Courses (SEC)		4
9	Value Added Courses (VAC)		4
	Total Credits		165
	10. Mandatory Courses (If any)*		0
	11. Optional Audit Courses (If any)*		0
	12. Professional Development Activities (LDA) (Mandatory)*		2

B.Tech. Programme (Lateral Entry) — 120 Credits

S. No.	Name of the Category		Cr.
1	Foundation Core Courses (FCC)		6
2	Programme Core Courses (PCC)		56
3	Programme Elective Courses (PEC)		21
4	Open Elective Courses (OEC)		9
5	Independent Learning Courses (ILC)		14
	• Community Service Project (CSP)	1	
	• Minor Project	2	
	• Summer Internship	2	
	• Major Project	9	
6	Industry / Higher Institute Learning (IHL)		2
7	Ability Enhancement Courses (AEC)		4
8	Skill Enhancement Courses (SEC)		4
9	Value Added Courses (VAC)		4
	Total Credits		120
	10. Mandatory Courses (If any)*		0
	11. Optional Audit Courses (If any)*		0
	12. Professional Development Activities (PDA) (Mandatory)*		2

COURSE NUMBERING/CODING SCHEME
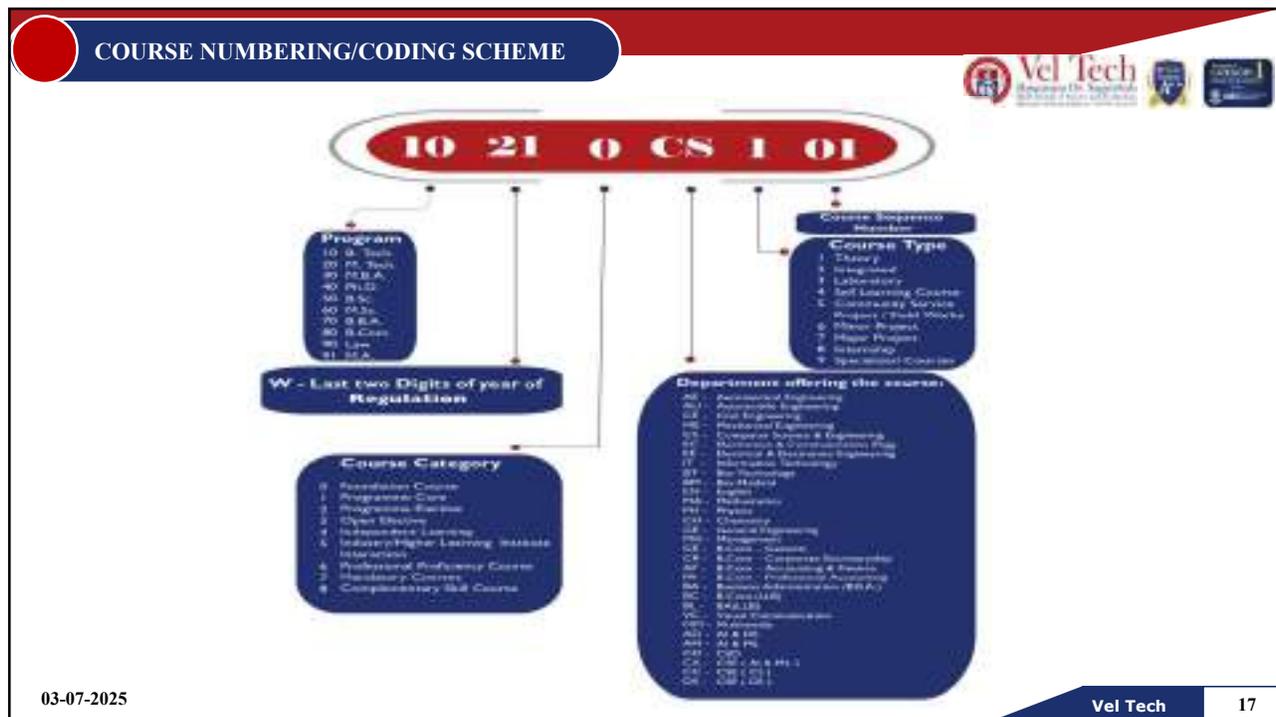
Academic Regulations - VTR UGE - 2025

MOOC BASED SELF-LEARNING COURSES WITHOUT CREDIT TRANSFER

MOOC Credit Transfer for

a) Courses opted for Specializations

b) Courses opted against for Honors Degree

c) Courses opted for Minor Degrees

d) Programme Elective Courses

e) Open Elective Courses

▪ Minimum Credits to be Earned on MOOC: 3 (PE/OE) and Maximum: 30 (Hons. / Minor / Specializations)

▪ Credit Transfer is as per the UGC Guidelines – SWAYAM/NPTEL/Others Platforms

Credit Hour Mapping for MOOC

• 6 Weeks Course - 1 Credit

• 8 weeks Course – 2 Credits

• 12 Weeks Course – 3 Credits

PROGRAMMES DURATIONS & CREDITS

Programme Duration (R2021)

Minimum Duration
- 4 Years – 8 Semesters (Regular)
- 3 Years – 6 Semesters (Lateral Entry)

Maximum Duration
- 8 Years – 16 Semesters (Regular)
- 7 Years – 14 Semesters (Lateral Entry)

Programme Duration (R2025)

Minimum Duration (N Yeas)
- 4 Years – 8 Semesters (Regular)
- 3 Years – 6 Semesters (Lateral Entry)

Maximum Duration (N+3 Years)
- 7 Years – 14 Semesters (Regular)
- 6 Years – 12 Semesters (Lateral Entry)

PROGRAMMES DURATIONS & CREDITS

R2021

Degree in a Major (1)
- **164** Credits

Degree in a Major with Specialization (2)
- **164** Credits, Electives Courses are from Single Specialization

Degree in a Major with Honours (3)
- **164** Credits + 18 Credits, from same Major

Degree in a Major with Minor (4)
- **164** Credits + 18 Credits from Other Schools

Programme Structure and Credit Requirement

PROGRAMMES DURATIONS & CREDITS

R2025

Degree in a Major (1)

- **165** Credits

Degree in a Major with Specialization (2)

- **165** Credits, All Electives Courses are from Single Specialization

Degree in a Major with Honours (3)

- **165** Credits + 18 Credits, from same Major

Degree in a Major with Minor (4)

- **165** Credits + 18 Credits from Other School Majors

Degree in a Major with Honours and Research (5) (New)

- **165** Credits + 18 Credits, from same Major
- Research Components including RM, RE & Publications and some advanced courses

Programme Structure and Credit Requirement

Earning Extra Credits by Advanced/Fast Learners

ASSESSMENTS

Continuous Internal Assessment (CIA) and Semester End Examinations (SEE) and Passing Requirement

S. No.	Course Type	Continuous Internal Assessment (CIA)	Semester End Examinations (SEE)			Minimum Pass (CIA+SEE) Marks
			SEE For	Marks	Min. Pass	
1	Theory Course	50	Theory	50	50%	50%
2	Practical Course	50	Practical	50	50%	50%
3	Theory (D) + Practical	50	Theory	50	50%	50%
4	Theory + Practical (D)	50	Practical	50	50%	50%
5	Community Service Project	50	Report	50	50%	50%
6	Minor Project	50	Project	50	50%	50%
7	Major Project / Internship	50	Project	50	50%	50%
8	SEC / AEC / VAC / IPT / IHL Courses	100	–	–	–	50%

ASSESSMENTS

Scheme for Assessment

R25.10.3. Scheme for Assessment

The assessment scheme table lists course types (Theory; Laboratory; Theory (D) + Lab; Theory + Lab (D); Community Service Project; Minor Project; Industry Project; Major Project (Internal or Industry); SEC / AEC / VAC / IHL / IPT Courses) with weightages for Continuous or Internal Assessment (CIA) Components and Semester End Examinations (SEE), totalling 100.

DEGREE CLASSIFICATION

Attendance Policy

Course-wise Attendance % Earned	Mark
Below 75%	0
75 to 79%	3
80 to 89%	4
90 to 100%	5

Eligibility Criteria for Appearing in SEE

Semester End Examinations (SEE)	From the date of commencement of Semester to the Last Instructional Day (inclusive) (for all students Semesters 1 to 8)	75%

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DEGREE CLASSIFICATION

Grading Policy

Range of Percentage of Mark Secured by Students	Letter Grade	Grade Points
91 to 100	O (Outstanding)	10
81 to 90	A+ (Excellent)	9
71 to 80	A (Very Good)	8
61 to 70	B+ (Good)	7
56 to 60	B (Above Average)	6
50 to 55	C (Average)	5
< 50	RA (Reappearance)	0
Absent	RA (Reappearance)	0
Pass in Mandatory-Non-Credit Course	P (Pass)	0
Fail in Mandatory-Non-Credit Course	F (Fail)	0

$$SGPA = \frac{\sum_{i=1}^{n}(C_i * GP_i)}{\sum_{i=1}^{n} C_i} \qquad CGPA = \frac{\sum_{i=1}^{m}(C_i * GP_i)}{\sum_{i=1}^{m} C_i}$$

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DEGREE CLASSIFICATION

Degree Classification

First Class with Distinction (FWD)	First Class	Second Class
• Passed all courses of FCC & PCC in first attempt within minimum duration • No History of Arrears • CGPA ≥ 8.00	• All courses passed within maximum duration • CGPA ≥ 6.50	• All courses passed within maximum duration • CGPA < 6.50

MIGRATION

- Migration facility is available as per the existing Regulations, VTU UGE 2021
  - Within the Departments
  - Between Department
  - Between Institutions (India)
  - Between Institutions (International)

MULTIPLE ENTRY/MULTIPLE EXIT

- Multiple Exit is available as per the Regulations

Exit Year	Qualification Title	Credit Required	
		Regular Students	Lateral Entry Students
First Year	Undergraduate Certificate	40	-
Second Year	Undergraduate Diploma	80	40
Third Year	B.Sc. (Engineering)	120	80

Academic Regulations - VTR UGE - 2025

Students Support

- Course Credits that may be acquired **through Industry Collaborations**

- Utilization of any of these are subject to the approval of BoS the

  concerned department

S. No.	Collaborative Learning Methods	Credits	Course Category Mapped
1	Semester Long Internship – In 6th Sem*	Up to 7	Summer Internship – 2 Cr., Minor Project – 2 Cr., and One Open Elective – 3 Cr.
2	Major Project with Industry / Research Organizations - 8th Semester	Up to 9	Major Project
3	Short Courses / Industrial Training	1 or 2	IHL/OEC

*Eligibility: 1. No Standing Arrear of 5th Semester and 2. CGPA: 8.50 and Above

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Academic Regulations - VTR UGE - 2025

Students Support

- Students Support: Course Credits that may be acquired **through International Institutional Collaborations**
- Utilization of any of these are subject to the approval of BoS the concerned department

S. No.	Collaborative Learning Methods	Credits	Course Category
1	Semester Abroad Program (SAP)	As per the list of Courses studied	PCC/PEC/OE/ILC
2	Foreign Languages	UP to 6	OE
3	Short Courses by External Intl. Faculty Experts / Training	Up to 4	PEC/IHL
4	Semester Long Internship	Up to 11	Minor Project – 2 Cr., and Major Project – 9 Cr.
5	Summer Internship	2	ILC

- Process of getting approval from Government to offer JOINT DEGREE, INTEGRATED AND TWIN DEGREES in collaboration with Institutions abroad is in progress.

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Academic Regulations - VTR UGE - 2025

Details of ABC/APPAR ID CREATION

Academic Year	Total No of Students	ABC Account Created
2021-22	2317	2258
2022-23	**2664**	**2620**
2023-24	**2787**	**2710**

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Academic Regulations - VTR UGE - 2025

Students Support for Professional Development

S. No.	Group	Activities / Events
1	I	Participation / volunteering in the LAVAZA
2		Participation / volunteering in the Arts / Sports
3		National Level Cultural Events / Yoga
4		Involvement in the University Union / Club Activities / Social Activities / Swachh Bharat / UBA (Social Services) /Any other activities not covered but specified by the University
5	II	English Proficiency Certification (TOFEL, IELTS, BEC etc.), Aptitude Proficiency Certification (GRE, CAT, GMAT etc.)/ Valid GATE Score.
6		Involvement in University Outreach Activities / Green Campus Initiatives
7		Short Term Course (12 Hours) /Internship (Minimum 2 weeks) / Technical Training by IITS/NITs etc (Minimum 6 days – Online/Offline),
8		Conferences / Symposium Paper Presentation / Participation in National/ International Level Hackathons/Any other activities not covered but specified by the University / VISAI
9	III	Patents, Start-Up, Innovation and incubations activities
10		Organizing and or Participation in University level/State Level/ National Level Workshop Activities/ Professional Body Activities/Professional Certifications
11		Memberships of professional societies such as Institution of Engineers, ISTE, IEEE, ASME, SAE, IETE, IME etc.
12		Participation in any International Events / Scientific Research Organization Visit etc. /Any other activities not covered but specified by the University

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Academic Regulations - VTR UGE - 2025

VTR UGE 2025 Regulations – Organization of Chapters

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Academic Regulations - VTR UGE - 2025

References and Benchmarking:
1. VIT
2. SRM
3. IITD,
4. NIT PUDUCHERRY
5. NIT AP
6. SIT Pune
7. JPU
8. KII, BHUBANESWAR

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Academic Regulations - VTR UGE - 2025

Suggestions for Update, Modification for Improvement,
Please.......

Thank You

{dac,daars}
@veltech.edu.in

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Office of the Dean Academics

Presented to the Academic Council Meeting Held on 24th May 2025

"Amendment to the Academic Regulations of B.Tech. VTR UGE 2021"

Revision No. ___/2025 **and** *Effective Date*: July 2025

Applicability: For the Students Admitted in the Academic Year 2023-24 and 2024-25

Rationale:

1. In order to enable students to complete the degree in the minimum duration, it is recommended to allow students register for at least 21 credits per semester.
2. To enable students to avail the opportunity to choose Honours Degree and/or Minor Degree Course Credits, he /she avail, additionally 6 Credits and up to maximum of 30 Credits per semester

Reference: As per the decision taken in the meeting with HoDs and Deans, held on 6th May 2025 at 2 pm in the office of the Dean Academic.

Section: 6.3. Course Registration

Clauses: 6.3.3. The student shall register a minimum of 15 credits in a semester and maximum of 25 credits, out of which minimum 12 credits shall be from 7.2.1 and/or 7.2.2.

Substitution: 6.3.3. The student shall register a minimum of ~~15~~ (21) credits in a semester and maximum of ~~25~~ (30) credits, out of which minimum 12 credits shall be from 7.2.1. and/or 7.2.2.

All India Council for Technical Education

(A Statutory body under Ministry of Education, Govt. of India)

Nelson Mandela Marg,Vasant Kunj, New Delhi-110070 Website: www.aicte-india.org

APPROVAL PROCESS 2025-26

Extension of Approval (EoA)

F.No. Southern/1-44638928064/2025/EOA

Date of Approval: 03-Jan-2025

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of Approval for the Academic Year 2025-26

Ref: Online application of the Institution submitted for Extension of Approval for the Academic Year 2025-26

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Education), Powers delegated in AICTE ACT 1987, (No 52 of 1987) chapter II - u/s 2(g) to regulate Technical and subsequent Regulations of AICTE, I am directed to convey the approval to:

Permanent Id	1-3863975271	**Application Id**	1-44638928064
Name of the Institution	VEL TECH RANGARAJAN DR.SAGUNTHALA R AND D INSTITUTE OF SCIENCE AND TECHNOLOGY	**Name of the Society/Trust**	VEL TECH RANGARAJAN DR.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY
Institution Address	#42, AVADI -VEL TECH ROAD, AVADI, CHENNAI- 600062, TAMIL NADU., AVADI, THIRUVALLUR, Tamil Nadu, 600062	**Society/Trust Address**	#42, AVADI -VEL TECH ROAD, AVADI, CHENNAI- 600062, TAMIL NADU.,AVADI,THIRUVALLUR,Tamil Nadu,600062
Institution Type	Institution Deemed to be University(Pvt)	**Region**	Southern
Year of Establishment	1996		

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2025-26

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	AERONAUTICAL ENGINEERING	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ARTIFICIAL INTELLIGENCE (AI) AND DATA SCIENCE	NOT APPLICABLE	60	60	Yes	Yes

Application No:1-44638928064

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

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Letter Printed On:19 April 2025

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	BIOMEDICAL ENGINEERING	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	BIOTECHNOLOGY	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	CIVIL ENGINEERING	NOT APPLICABLE	30	30	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE & ENGINEERING	NOT APPLICABLE	1320	1320	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND DESIGN	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING (CYBER SECURITY)	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRICAL AND ELECTRONICS ENGINEERING	NOT APPLICABLE	60	60	Yes	Yes

Note: This is a Computer generated Report. No signature is required.
Printed By : aict13002   Letter Printed On:19 April 2025

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	ELECTRONICS AND COMMUNICATION ENGINEERING	NOT APPLICABLE	480	480	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	INFORMATION TECHNOLOGY	NOT APPLICABLE	60	60	Yes	Yes
UNDER GRADUATE	ENGINEERING AND TECHNOLOGY	MECHANICAL ENGINEERING	NOT APPLICABLE	60	60	Yes	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	AERONAUTICAL ENGINEERING (Unmanned Aerial Vehicles)	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	STRUCTURAL ENGINEERING	NOT APPLICABLE	18	18	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	ENVIRONMENTAL ENGINEERING	NOT APPLICABLE	18	18	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	COMPUTER SCIENCE AND ENGINEERING	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	BIG DATA ANALYTICS	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	EMBEDDED SYSTEMS AND TECHNOLOGIES	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	INFORMATION AND CYBER SECURITY	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	MANAGEMENT	MBA	NOT APPLICABLE	120	120	Yes	Yes

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Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2024-25	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
POST GRADUATE	ENGINEERING AND TECHNOLOGY	POWER ELECTRONICS	NOT APPLICABLE	12	12	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	METALLURGICAL AND MATERIAL SCIENCE ENGINEERING	NOT APPLICABLE	18	18	No	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	INDUSTRIAL SAFETY AND ENGINEERING	NOT APPLICABLE	36	36	Yes	Yes
POST GRADUATE	ENGINEERING AND TECHNOLOGY	BIOTECHNOLOGY	NOT APPLICABLE	12	12	No	No

To conduct following Programs/Courses with the Intake indicated below for the Academic Year 2025-26

Level	Program	Course	Affiliating Body (University /Body)	Intake Approved for 2025-26	NRI Approval Status	FN / Gulf quota/ OCI/ Approval Status
UNDER GRADUATE	MANAGEMENT	BBA	NOT APPLICABLE	60	Yes	Yes

Note:
A) **The approval of BBA/BCA/BMS courses is on "as is where is basis" Intake Approved for BBA/BCA/BMS Course is Subject to the approval of the Concern University.**
B) **From next year onwards, the EOA will be issued as per the AICTE norms and not on 'As is where is basis'**

All AICTE approved Institutions are empowered to nurture ecosystems for Skilling (through Vocational courses) via making effective use of existing infrastructure facilities and human resources.

It is mandatory to comply with all the essential requirements as given in APH 2024-27 (Chapter-VI)

Important Instructions

Application No:1-44638928064 **ALL INDIA COUNCIL FOR TECHNICAL EDUCATION** Page **4** of **6**
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1. As per mandatory Disclosure of APH 2024-27(Annexure-18, page180) Institutions must disclose the following information submitted to Council at the Prominent location on its website.

   i. Department wise availability of Infrastructure along with approved courses and intake approved by the Council.

   ii. Faculty details: Department wise: Name& Designation of the faculty members/teaching staff along with their qualification, tenure of service in your organization, total experience, Institution should also disclose Student Faculty Ratio, Cadre Ratio.

   iii. Additionally Audited Financial Statements for last 3 Financial years.

2. Reservation Policy of the Central Government (Including EWS) / Respective State Government/ UT as the case shall be applicable to all the Programmes. The concerned State Government/ UT Admission authority shall decide Modalities of Admission.

3. The Institution offering courses earlier in the Regular Shift, First Shift, Second Shift/Part Time are now amalgamated as total intake and shall have to fulfil all facilities such as Infrastructure, Faculty and other requirements as per the norms specified in the Approval Process Handbook 2024-25 to 2027 for the Total Approved Intake.

4. In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the **Executive Council / General Council as available on the record of AICTE shall be final and binding.**

5. All AICTE institutions are highly encouraged to get NBA/NAAC accreditation. All eligible AICTE institutions are thoroughly encouraged to participate in NIRF ranking process.

6. Deemed to be University: Institutions Deemed to be Universities (Running Technical Education Programmes), it is mandatory to have AICTE approval from the Academic Year 2018-19 in compliance of the Hon'ble Supreme Court Order dated 03-11-2017 passed in CA No.17869- 17870 /2017.

7. AICTE Approved Institutes are encouraged to utilize SWAYAM PLUS Courses up-to 40%

8. Internship is mandatory for all admitted students.

9. AICTE Approved Institutes are encouraged to make efficient use of the flagship schemes like:

   a. Parakh: Student Gap analysis portal bases services.

   b. Students Scholarship schemes like Pragati, Saksham, Swanath, ADF, etc.

   c. Course in Indian Languages.

   d. ATAL FDPs: Faculty training for Emerging areas and cutting edge Technologies.

   e. Augmenting Utilization of Research Assets (AURA).

   f. Smart India Hackathon: World's largest Open Innovation Platform.

Prof.Rajive Kumar
Member Secretary, AICTE

Copy to:

1. **The Director Of Technical Education**, Tamil Nadu

2. **The Registrar**,
   Not Applicable

3. **The Principal / Director,**
   VEL TECH RANGARAJAN DR.SAGUNTHALA R AND D INSTITUTE OF SCIENCE AND TECHNOLOGY
   #42, Avadi -Vel Tech Road, Avadi, Chennai- 600062, Tamil Nadu.,
   Avadi,Thiruvallur,
   Tamil Nadu,600062

4.   **The Secretary / Chairman,**
     #42, AVADI -VEL TECH ROAD, AVADI, CHENNAI- 600062, TAMIL NADU.
     AVADI,THIRUVALLUR
     Tamil Nadu,600062

5.   **Guard File(AICTE)**

Note: Validity of the Course details may be verified at http://www.aicte-india.org/

** Individual Approval letter copy will not be communicated through Post/Email. However, a consolidated list of Approved Institutions(bulk) may be downloaded from the respective login id's.

This is a computer generated Statement. No signature Required

Summary

Status of the establishment of AICTE Sponsored "IDEA LAB"

AICTE-IDEA (Idea Development, Evaluation, and Application) Laboratory is being established in engineering colleges across India to help students develop their creative ideas and problem-solving skills. This laboratory provides facilities and resources for students to turn their ideas into prototypes and will also help students to develop 21st century skills. The ultimate goal of the IDEA Laboratory is to transform engineering education and support students in becoming more creative and innovative.

AICTE – IDEA Laboratory has been sanctioned to Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology with a total cost of **Rs 90 lakh,** including non-recurring expenses (equipment, tools and consumables) of Rs 60 lakh and recurrent expenses (events and activities for two years) of Rs 30 lakh.

All the quotations were received from different vendors and the comparative statement was prepared to raise Purchase Orders. The major equipment are Vinyl Cutter, 3D printer, 3D Scanner, CNC router, PCB milling, Computer work station in Networking and AR/VR etc.

Integration of IDEA Lab with existing facilities:
Vel Tech Research Park, established at our university, houses 23 research centers and 5 CoEs to promote research, innovation, skill development, and entrepreneurship. The centers include:
i) IoT and Smart Factory initiatives supported by the ZF Commercial Vehicles Industry Laboratory.
ii) Centre of PCB Design & Fabrication, Bioenergy and Bio-products Centre supported by the Department of Science and Technology (DST)
iii) National Facility for E-Waste Recycling
iv) 3D Printing and 3D Scanning Facility
v) Centre for Antenna Research Lab is supported by ISRO.

All the academic laboratories of the institute are also leveraged for the IDEA Laboratory. The facilities available in the R&D of various departments have been aligned with the IDEA Laboratory below:
- Design and Analysis using software like MATLAB 2023, LABVIEW V18, ANSYS 2024, XILINX 2019, DIGSILENT FACTORY 2022, CADENCE, and CCS V12.
- CDIO Lab (Conceive, Design, Implement, and Operate) workspace for freshman engineers to convert the idea into a working model.

Plan for the sustenance of IDEA Lab beyond two years:

- To establish a multidisciplinary Centre of Excellence through the IDEA Laboratory.
- Availability of the IDEA laboratory to the students 24/7 to enhance their skills and competencies.
- To organize continuous skill development courses for the students and faculty members of the host and other institutes.
- To meet the requirements of the industry's needs/expectations, value-added courses will be organized for students.
- To facilitate networking with professional resources, which include mentors, experts, and consultants for carrying out research and consultancy works in the college.
- To provide training to small-scale industries, polytechnic colleges and nearby schools.

S.No	Reg.No	Name	Dept	Mode of Study (PT/FT)	Supervisor Name	Title
1	18REEC1004	S.T. Aarthy	ECE	PT-External	Dr. Mazher Iqbal J.L.	Electrocardiogram Signal Classification for Efficient Disease Prediction and Treatment Recommendation System
2	19RHLW1001	Manoj Kumar G	LAW	PT - Internal	Dr. Venugopal B	Corporate Social Responsibility for the Protection of Environment in India: An Analysis
3	19RHEG1004	D. Angala Parameswari	ENGLISH	FT	Dr. M. Ramesh	Problems of Second Language Learning in Writing Skills among Telugu Speaking Engineering Students in Tamil Nadu
4	19REBM1001	A B S K Padmanabha Sarma	Biomedical	PT - Internal	Dr. G. Saranya	Developing an Efficient CNN Architecture for Segmenting Corpus Callosum from Brain Images
5	17RECS1015	Sankara Srinivasa Rao Illapu	CSE	PT-External	Dr. N.R. Rajalakshmi	Enhancing Quality of Service in WBANs to Improve Energy Efficiency using Optimization Techniques
6	21REAE1002	Irish Angelin S	AERO	FT	Dr. Naren Shankar R	Optimizing Co-Axial Nozzle Design for a Finite LIP Thickness
7	17RECS1007	Manivannan D	CSE	PT - Internal	Dr. M. Kavitha	Enhancement of Diabetic Care: Integrating Intelligent Techniques for Disease Prediction, Monitoring and Management
8	19REME1003	Vikas Vasantrao Ugle	MECH	PT-External	Dr. Lenin N	Design and Analysis of Corrugated Tube Heat Exchanger using Nanofluids
9	13RHMA1003	Sreelakshmi Lingineni	Mathematics	PT - Internal	Dr. M.L. Suresh	A Study on Stochastic Models for Diabetes Mellitus
10	20REAE1002	G. Gowtham	AERO	PT - Internal	Dr. R. Jaganraj	Experimental and Numerical Investigation of Aerodynamic Performance and Impact of Interference Effects on a UAV Propeller
11	18REEC1009	M Vijay Albert William	ECE	PT - Internal	Dr. S. Ramesh	Steam Generator Tube-Defect Detection, Classification and Optimization Using Machine Learning and Metaheuristic Algorithms
12	21RHMA1007	Madhumitha S	Mathematics	FT	Dr. T. Gunasekar	Existence and Controllability Results for Second-Order Impulsive Neutral Random Functional Integro-Differential Equations with Delays
13	20RECS1025	Sathyamoorthy K	CSE	PT-External	Dr. S. Ravikumar	Deep Learning-Based 3D Nodule Segmentation and Predictive Models for Lung Cancer Progression
14	19REEC1007	Sri Jamiya S	ECE	FT	Dr. Selwin Mich Priyadharson	An Efficient Real-Time Vehicle Detection using Traffic Surveillance Videos
15	19REEC1004	V.V.S.R.K.K. Pavan BH	ECE	PT-External	Dr. N. Herald Anantha Rufus	Detection and Classification of Schizophrenia with Ocular Artifact Removal in EEG using Darknet-Yolo and SLBP Synergic Network
16	16REEE1001	Barathi K	EEE	PT - Internal	Dr. P.K. Dhal	Metaheuristic Optimization Approaches for SBQZS Converter based Grid Connected PV System
17	19REEE1002	Bharathi T	EEE	PT-External	Dr. S. Ramesh	Design and Development of Energy-Efficient Radial Flux based Dual Rotor Machines for Electric Mobility
18	20RECV1005	T. Udhaya Kumar	CIVIL	PT - Internal	M.Vinod Kumar	Evaluation of Strength and Durability Characteristics of Sustainable Light Weight Geopolymer Aggregate Concrete
19	20RHEG1009	Ashraf Omar Tajmeeh	English	FT	Dr. Prakash A	War and Diaspora in the Select Novels of Khaled Hosseini and Tahmima Anam: A Comparative Study
20	18RMBM1002	K. Saradasiva Reddy	Management Stu	PT-External	Dr. Ravishankar K	A Study on Farmers Perception Towards Agriculture Loans in Rural Areas with Reference to Rayalaseema Region, Andhra Pradesh

Office of the Quality Assurance

49th Meeting of the Academic Council

49.14: To report and record the status of process of the submission of NBA applications for 4 departments namely Biomedical, Civil, CSE and ECE

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Dr. M. Rajeev Kumar

Dean - Quality Assurance

May 24, 2025 @ 10.30 a.m.

49th ACM

49.14: To report and record the status of process of the

submission of NBA applications for 4 departments

namely Biomedical, Civil, CSE and ECE

2

Office of QA

	Biomedical Engineering	Civil Engineering	Computer Science and Engineering	Electronics & Communication Engineering
Present Status	NA	01.07.2018 – 30.06.2021 *(Grant of Accreditation)* 01.07.2021 – 30.06.2022 *(Extension of Accreditation)* 01.07.2022 – 30.06.2025 *(Grant of Accreditation based on Compliance visit)*		
Fresh Application Dated	23rd January 2025			
Pre-Qualifier Submission	23rd February 2025			
Self Assessment Report Submission	23rd April 2025			
Proposed Set of Visit Dates	12.09.2025 19.09.2025 26.09.2025 24.10.2025 31.10.2025			

3

Office of QA

Quality is not an Act, It is a Habit

Thank You

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Prof. Dr. M. Rajeev Kumar, Dean (Quality Assurance)

Semester Long Internship (SLI): Proposal & Implementation Strategy

Target Batch

B.Tech – Sixth Semester (2023–2025 Batches)

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

Internship Duration & Mode

Full-Time Immersive Experience for Practical Skill Development

- **Duration (12–16 weeks),**
- **Full-time mode,**
- **Credit-integrated,**
- **Industry-oriented.**

Credit Allocation Strategy

Revised Academic Model to Integrate Internship Outcomes

Table 4: Minimum credits required for Regular students in various course categories

Section Number	Course Category	Minimum Credits Required
7.2.1	Foundation Courses (FC)	56
7.2.2	Programme Core (PC)	38
7.2.3	Programme Elective (PE)	18
7.2.4	Open Elective (OE)	12
7.2.5	Independent Learning (IL)	14
7.2.6	Industry/Higher Institute Learning Interaction (IHL)	2
7.2.7	Professional Proficiency Courses (PPC)	4
	Total	164

Component	Credits
Minor Project II	2
Program Elective	3
IHL Course (Optional)	1
Total	**6**

Visual timeline for intensive 9–10 credits and remaining credit redistribution

---

Implementation Timeline & Process

Phased Rollout and Oversight for SLI Integration

- ✅ 80 credits (Regular) or 35 (Lateral Entry)

- ✅ Registered in 5th semester

- ✅ Offer letter from relevant domain

- ✅ All prerequisites completed

Benefits to Stakeholders

Strategic Value for Students, Industry, and the Institution

- **Students:** Enhanced employability, industry-relevant skills, and practical experience through real-world exposure.

- **Industry:** Access to a pre-trained talent pool and opportunity to mentor future recruits.

- **Institution:** Stronger industry linkages, improved placement rates, and enriched curriculum relevance.

- **Academic Ecosystem:** Promotion of experiential learning and smoother transition from campus to corporate.

Photo by Brett Jordan on Unsplash

Credit Allocation

- 9 credits can be completed through an intensive semester of 1-month duration.
  The remaining 10 credits (25 - 6 - 9 = 10) must be accommodated by either:

- Shifting them to the 5th or 7th semester, or

- Completing them through one or two NPTEL courses.

- Each department has developed its own model to map and manage these credits.

Implemented with the below Engineering Department

- Artificial Intelligence & Data Science
- Artificial Intelligence & Machine Learning

Artificial Intelligence & Data Science

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	3	2	-	-	0
Programme Core (PC)		15	16	14	8	5	0
Programme Elective (PE)		-	-	4	3 +3NPTEL	8	0
Open Elective (OE)		3	3	3	3NPTEL	-	0
Independent Learning (IL)		-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)		-	-	1	1	-	0
Professional Proficiency Courses (PPC)		1	1	1	-	1	0
Total	47	23	24	27	20	14	9

Artificial Intelligence & Machine Learning

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	5		-	-	0
Programme Core (PC)		15	16	14	8	5	0
Programme Elective (PE)		-	-	4 + 3 NPTEL	3	8	0
Open Elective (OE)		5	2	2	3 NPTEL	-	0
Independent Learning (IL)		-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)		-	-	1	1	-	0
Professional Proficiency Courses (PPC)		1	1	1	-	1	0
Total	47	25	25	27	17	14	9

Computer Science and Design (VTRUGE 21) - SLI

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	3	2			
Programme Core (PC)		18	16	14	4	6	
Programme Elective (PE)				4	4+3 NPTEL	8	
Open Elective (OE)			3 + 3 NPTEL	3	3		
Independent Learning (IL)			1	2	2		9
Industry/Higher Institute Learning Interaction (IHL)					1	1	
Professional Proficiency Courses		1	1	1		1	
Total	47	23	27	26	17	16	9

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	3	2	-	-	0
Programme Core (PC)		17	16	15	6	4	0
Programme Elective (PE)		-	-	4	3+3NPTEL	8	0
Open Elective (OE)		3	3	3	3NPTEL	-	0
Independent Learning (IL)		-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)		-	-	1	1	-	0
Professional Proficiency Courses (PPC)		1	1	1	-	1	0
Total	47	25	24	28	18	13	9

Department of Computer Science and Engineering (Cyber Security)

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	3	2	-	-	-
Programme Core (PC)	-	16	16	16	6	4	-
Programme Elective (PE)	-	-	-	4	3 + 3 NPTEL	8	-
Open Elective (OE)	-	3	3	3	3 NPTEL	-	-
Independent Learning (IL)	-	-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)	-	-	-	-	1	1	-
Professional Proficiency Courses (PPC)	-	1	1	1	-	1	-
Total (164)	47	24	24	28	18	14	9

Department of Computer Science and Engineering (Data Science)

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	4	3	2	-	-	-
Programme Core (PC)	-	17	16	16	6	3	-
Programme Elective (PE)	-	-	-	4	3 + 3 NPTEL	8	-
Open Elective (OE)	-	3	3	3	3 NPTEL	-	-
Independent Learning (IL)	-	-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)	-	-	-	-	1	1	-
Professional Proficiency Courses (PPC)	-	1	1	1	-	1	-
Total (164)	47	25	24	28	18	13	9

Information Technology

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	47	6	3		-	-	0
Programme Core (PC)		15	16	14	8	5	0
Programme Elective (PE)		-	-	4 + 3 NPTEL	3	8	0
Open Elective (OE)		3	4	2	3 NPTEL	-	0
Independent Learning (IL)		-	1	2	2	-	9
Industry/Higher Institute Learning Interaction (IHL)		-	-	1	1	-	0
Professional Proficiency Courses (PPC)		1	1	1	-	1	0
Total	47	25	25	27	17	14	9

Aeronautical Engineering

Course Category	1st Year	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	43	3	3	2	3	2	0
Programme Core (PC)		13	14	17	6	8	0
Programme Elective (PE)		3	6	3	3	3	0
Open Elective (OE)		3	0	3	3	3	0
Independent Learning (IL)		0	1	2	2	0	9
Industry/Higher Institute Learning Interaction (IHL)		2	0	0	0	0	0
Professional Proficiency Courses (PPC)		1	1	1	1	0	0
Total	43	25	25	28	18	16	9

Mechanical Engineering

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	46	3	3	4			0
Programme Core (PC)		18	16	14	10		0
Programme Elective (PE)				6	6	6	0
Open Elective (OE)		3	3		3	3	0
Independent Learning (IL)			1	2	2	0	9
Industry/Higher Institute Learning Interaction (IHL)			1	0	0	1	0
Professional Proficiency Courses (PPC)			1	1	1		1	0
Total	46	25	25	27	21	11	9

Civil Engineering

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	44	7	3	2			0
Programme Core (PC)		13	14	15	9	7	0
Programme Elective (PE)			3	3		12	0
Open Elective (OE)		3	3	3		3	0
Independent Learning (IL)			1	2	2	0	9
Industry/Higher Institute Learning Interaction (IHL)		1	1	0	0		0
Professional Proficiency Courses (PPC)		1	1	1	1		0
Total	44	25	26	26	12	22	9

Biomedical Engineering

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	44	3	3	6		4	0
Programme Core (PC)		17	16	11	10	4	0
Programme Elective (PE)			3	6		9	0
Open Elective (OE)		3		3	3	3	0
Independent Learning (IL)			1	2	2	0	9
Industry/Higher Institute Learning Interaction (IHL)				1	0	1	0
Professional Proficiency Courses (PPC)		1	1	1		1	0
Total	44	24	24	30	15	22	9

Biotechnology

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	43	3	3	5		2	0
Programme Core (PC)		18	14	10	10	6	0
Programme Elective (PE)			3	9	3	3	0
Open Elective (OE)		3	3	3		3	0
Independent Learning (IL)			1	2	2		9
Industry/Higher Institute Learning Interaction (IHL)					1	1	0
Professional Proficiency Courses (PPC)		1	1	1		1	0
Total	43	25	25	30	16	16	9

Electrical and Electronics Engineering

Course Category	1st Yr	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem
Foundation Course (FC)	43	7	3	2		2	0
Programme Core (PC)		15	13	15	8	7	0
Programme Elective (PE)		3	3	6	3	3	0
Open Elective (OE)			3	3	3	3	0
Independent Learning (IL)			1	2	2		9
Industry/Higher Institute Learning Interaction (IHL)			1			1	0
Professional Proficiency Courses (PPC)			1	1		1	0
Total	43	25	25	29	16	17	9

Final Recommendations & Next Steps

Path Forward for Implementing Semester Long Internship

- **Departmental Approval:** Finalize credit mapping models and get them ratified by academic boards.

- **Student Orientation:** Conduct awareness sessions and workshops to guide students through the SLI process.

- **Industry Outreach:** Expand partnerships with industries and startups to diversify internship offerings.

- **Monitoring & Feedback:** Develop robust monitoring tools and collect feedback from all stakeholders.

Date and Time **:** 12.03.2025 / 09.30 A.M – 11.30 A.M

Location of Meeting **:** Senate Hall

Mode : Hybrid Conferencing

Members Present

S. No.	Name of the Experts	Designation / Organization	Research Board Member
1	Prof. Dr. Rajat Gupta	Vice Chancellor, Vel Tech	Chairman
2	Prof. Dr. E. Kannan	Registrar, Vel Tech	Member
3	Prof. Dr. Raju Shanmugam	Dean, Academics, Vel Tech	Member
4	Prof. Dr. P. Chandrakumar	Dean, R&D, Vel Tech	Member
5	Prof. Dr. Valarmathi R S	Dean, SoEC, Vel Tech	Member
6	Prof. Dr. N. Kumarappan	Professor, Annamalai University, Annamalainagar	Expert Member
7	Prof. Dr. S. Rajaram	Professor, Thiagarajar College of Engineering, Madurai	Expert Member
8	Prof. Dr. Santanu Paria	Professor National Institute of Technology, Rourkela	Expert Member
9	Prof. Dr. Satyasai Jagannath Nanda	Professor, Malaviya National Institute of Technology, Jaipur	Expert Member
10	Mr. Hari Kumar K,	Managing Director, JH BIO Innovations Pvt. Ltd., Bengaluru	Expert Member (Industry)
11	Prof. Dr. S. Ramesh	Professor – CSE & Controller of Examinations	Special Invitee
12	Prof. Dr. K. Jagajjanani Rao	Dean (Research Studies), Vel Tech	Secretary
13	Other Invited Members	All Deans, Vel Tech	Invitees

Opening

The Honorable Vice Chancellor, Chairman of the Vel Tech Research Board, warmly welcomed all members to the 27th meeting of the Board. The session commenced with a presentation on the institute's achievements and key contributions made since the last Research Board meeting, followed by introductions and greetings among the members.

Dr. K. Jagajjanani Rao, Dean (Research Studies) and Secretary of the Vel Tech Research Board, initiated discussions on the agenda items.

Agenda Items

Item No 27.1: To inform the Board about the leave of absence of the members.

The board was informed about the about the absence of members. Prof. Dr. R. Sivaraman - Pro-Vice Chancellor was unable to attend due to prior commitments.

Item No 27.2: To report and record the minutes of the 26th meeting of the Research Studies held on 21-08-2024.

The minutes of the 26th Research Board Meeting held on August 21, 2024, were presented and recorded. The detailed minutes are available at

https://drive.google.com/file/d/1iC6rXUjhGPzfol-31Xe2GjTXc21Iw4sp/view?usp=sharing

Item No 27.3: To inform the board about the actions taken based on the minutes of the last meeting.

A report on the actions implemented based on the recommendations from the previous meeting was presented. The full details can be accessed at

https://docs.google.com/document/d/1g4isqIFmt64gP9WCrFcWdPd_l2EFhB2KEAY0yYBw9NU/edit?usp=sharing

<u>**Items for Discussion and Approval**</u>

Item No 27.4: To consider and approve the proposal regarding limiting the maximum number of Ph.D. scholars per faculty per admission cycle.

Discussion:

The Dean, Research Studies presented the details of proposal regarding limiting the maximum number of Ph.D. scholars per faculty per admission cycle.

The proposed limit for Ph.D. students per faculty member per admission cycle is 50%.

i.e. Maximum number of Research Scholars allowed per admission session per

Professor   : 4

Associate Professor : 3

Assistant Professor   : 2

Action:

Members acknowledged that different disciplines have varying supervision requirements- lab-based research (engineering, sciences) demands more intensive supervision, whereas theoretical or computational fields may require less. While implementing a 50% cap on available PhD vacancies per admission cycle could serve as a temporary measure, it should not be enforced rigidly. Instead, the Departmental Research Committee (DRC) should make the final decision to ensure a fair and efficient allocation of research scholars.

To address the issue of imbalanced PhD student distribution, members proposed the following solutions:

1. **Preference-based selection** – Applicants should list their top three faculty preferences. If their first-choice supervisor has reached the cap, they will be assigned to the next available choice, subject to vacancies.

2. **Departmental screening & fair allocation** – The DRC should oversee the allocation process to maintain fairness. Where possible, efforts should be made to ensure that every eligible faculty member receives at least one PhD student before others reach their limit.

3. **Enhancing research visibility** – Faculty members should be encouraged to actively promote their research through seminars, workshops, and online platforms to attract prospective PhD students.

4. **Rotational allocation system** – If a faculty member reaches their PhD student limit in one admission cycle, priority may be given to other faculty in the next cycle, whenever feasible.

5. **Joint supervision model** – Encourage co-supervision, allowing students to work under two faculty members. This approach ensures that newer faculty members gain research experience while students benefit from diverse academic perspectives.

Item No.: 27.5: To consider and approve the proposal of Establishing credit limits for online courses applicable to Direct and Regular Ph.D. programs.

Discussion:

The Dean, Research Studies presented the details of proposal to consider and approve 'establishing credit limits' for online courses applicable to Direct and Regular Ph.D. programs are listed in Table 1.

Table 1: Credit limits for online courses applicable to Direct and Regular Ph.D. programs.

Category	Minimum Credits	Maximum Credits	Proposed Credit Limit for online courses
Direct	42	46	16-18
Regular Ph.D.	12	16	6-8

Action:

The committee recommended that the credit limits for online courses in Ph.D. programs be aligned with UGC guidelines, which permit a maximum of 40% of the total credits for online courses, similar to the allowance for UG and PG programs.

Item No.: 27.6: To consider and approve the details regarding the Screening Committee constituted for the UGC-Ph.D. Excellence Citation recommendation.

Discussion:

The Dean, Research Studies presented the details regarding the Screening Committee constituted for the UGC-Ph.D. Excellence Citation recommendation.

Screening Committee:

S. No.	Faculty Name & Designation	Role
1	Dr. K. Jagajjanani Rao, *Dean – Research Studies*	Chairperson
2	Dr. E. Kannan, *Registrar*	Member
3	Dr. S. Raju, *Dean – Academics*	Member
4	Dr. M. Rajeev Kumar, *Dean – Quality Assurance*	Member
5	Dr. P. Chandrakumar, *Dean – Research & Development*	Member
6	Dr. G. Gunasekaran, *Dean – Freshman Engineering*	Member
7	Dr. Chokkalingam S. P., *Dean – School of Computing*	Member
8	Dr. R. S. Valarmathi, *Dean – School of Electrical and Communications*	Member
9	Dr. M.S.R. Mariyappan, *Dean – School of Management*	Member
10	Dr. B. Venugopal, *Dean – School of Law*	Member
11	Dr. S. Ramesh, *Controller of Examinations*	Member

Nominee Details

S. No.	Reg. No.	Scholar Name	Dept.	Category	Total Marks
1	16RECS1012	Thilagam T	CSE	Engineering and Tech.	103.75
2	20RMBM1022	Dagnew Gebrehiwot Giday	MBA	Commerce and Management	25.8
3	20RHMA1010	Roselyn Besi P	Maths	Sciences	50.55
4	20RHEG1010	Caleb Theodar M	English	Social Sciences	21.85

Action:

The research board members recommended that the final marks be verified for accuracy before submission to the UGC for the Ph.D. Excellence Citation. Additionally, they suggested that the institute may consider providing internal recognition or awards for outstanding Ph.D. scholars to acknowledge their academic contributions.

Item No.: 27.7: To consider and approve the extension of the reporting date for a few Ph.D. scholars admitted in the Winter Session 2024-25.

Discussion:

The Dean, Research Studies presented the details and approve the extension of the reporting date for a few Ph.D. scholars admitted in the Winter Session 2024-25 are listed in Table 2

Table 2: The extension of the reporting date for a few Ph.D. scholars

Department	No. of Scholars to be reported	Full Time	Part Time
CSE	1	0	1
MBA	1	0	1
Mech	1	0	1
Maths	2	2	0

Action:

Board members recommended that the request for an extension of the reporting date be reviewed on a case-by-case basis and approved subject to the Vice Chancellor's discretion.

Item No.: 27.8 : To consider and approve the proposed credit transfer for discontinued and re-admitted scholars

Discussion:

The Dean, Research Studies presented the details and approve the proposed credit transfer for discontinued and re-admitted scholars are listed in Table 3

Table 3: Discontinued and re-admitted scholars

S. No.	VTD No.	Name of the Scholar	Dept.	Date of Admission	Date of discontinued	Previous Regulation	Date of Re-admitted
1	627	Anil Babu S	MECH	20.12.2018	14.08.2023	2016	07.01.2025
2	545	Susi A	CSE	20.09.2017	30.12.2020	2016	08.01.2025

Action:

The Research Board recommended that the proposed credit transfer for discontinued and re-admitted scholars be reviewed in consultation with the Controller of Examinations (COE). The discussion should focus on verifying the validity of previously earned credits, mark sheets, and transcripts, ensuring compliance with the latest Ph.D. regulations, and assessing the total study duration, including the discontinued period, to determine eligibility for credit transfer. The final approval should be granted based on the COE's and research advisory committee (RAC) suggestions and recommendations while ensuring alignment with institutional policies and academic guidelines.

Item No.: 27.9: To discuss and explore the feasibility of admitting Ph.D. scholars in Tamil under the guidance of the qualified supervisors in the Department of Commerce.

Discussion:

The Dean, Research Studies presented the details and approve feasibility of admitting Ph.D. scholars in Tamil under the guidance of the qualified supervisors in the Department of Commerce.

Action:

The Research Board recommended forming a committee, with the approval of the Vice Chancellor, to assess the feasibility of admitting Ph.D. scholars in Tamil under the guidance of qualified supervisors in the Department of Commerce. The committee will evaluate key aspects such as academic standards, research resources, faculty expertise, and regulatory compliance. Their findings and recommendations will be presented for discussion in the next Board meeting for further decision-making.

Item No.: 27.10: To discuss the implementation of a periodic progress monitoring system for scholars through dedicated Research Studies Coordinators from each department.

Discussion:

The Dean, Research Studies presented the details and approve the implementation of a periodic progress monitoring system for scholars through dedicated Research Studies Coordinators from each department.

Action:

The Research Board approved the implementation of a periodic progress monitoring system for Ph.D. scholars by assigning dedicated Research Studies Coordinators in each department.

These coordinators will

- Serve as a communication link between PhD scholars and the Dean - Research Studies
- Ensure timely evaluation of research progress, aid in addressing academic concerns
- Contribute to program reforms and maintain compliance with institutional and UGC guidelines.

Item for Ratification

Item No.: 27.11 To ratify VTR DR 2025 Regulations which includes Direct Ph.D. and Integrated Ph.D., incorporating suggestions offered by the members in the previous board meetings.

Discussion:

Dean, Research Studies presented the VTR DR 2025 Regulations which includes Direct Ph.D. and Integrated Ph.D., incorporating suggestions offered by the members in the previous board meetings are given below link.

https://drive.google.com/file/d/1ct1hi6ees0qn5v9ScXVGr2N1YRG12WZp/view?usp=sharing

Action:

The Research Board approved the VTR DR 2025 Regulations, which include provisions for Direct Ph.D. and Integrated Ph.D. programs, incorporating the amendments and recommendations from previous board meetings. The approved regulations are aligned with UGC guidelines to ensure academic compliance and quality standards. Departments are advised to implement these regulations effectively and communicate the updates to faculty and scholars.

Items for Recording and Reporting

Item No.: 27.12: To record the cut-off dates of the admissions for the doctoral program for the academic year 2025-26

Discussion:

The Dean, Research Studies presented the cut-off dates of the admissions for the doctoral program for the academic year 2025-26 are given in Table 4.

Table 4: Admission of Doctoral (Ph.D.) level Programmes in Engineering and Technology/ Science / Law / Management / Commerce/ Media and Communication for Academic Year 2025 - 26.

<table>
<tr><td colspan="7" align="center">Admission of Doctoral (Ph.D.) level Programmes in Engineering and Technology/ Science / Law / Management / Commerce/ Media and Communication for Academic Year 2025 - 26</td></tr>
<tr><td>Batch</td><td>Month & Year</td><td>Issue of Application</td><td>Last Date for Submission of Application</td><td>Entrance Examination (Online)</td><td>Interview (Online)</td><td>Certificate Verification and Admission</td></tr>
<tr><td>Summer Session</td><td>July 2025</td><td>22.03.2025</td><td>10.05.2025</td><td>24.05.2025</td><td>14.06.2025</td><td>01.07.2025</td></tr>
<tr><td>Winter Session</td><td>January 2026</td><td>27.09.2025</td><td>15.11.2025</td><td>29.11.2025</td><td>13.12.2025</td><td>06.01.2026</td></tr>
</table>

Action:

The Research Board approved the listed cut-off dates for Ph.D. admissions for the academic year 2025-26 across various disciplines, including Engineering and Technology, Science, Law, Management, Commerce, and Media & Communication.

Item No.: 27.13: To report Ph.D. candidates provisionally admitted for the Winter Session 2024-25.

Discussion:

The Dean, Research Studies presented Ph.D. candidates provisionally admitted for the Winter Session 2024-25 are given in Table 5.

Table 5: Ph.D. candidates provisionally admitted for the Winter Session 2024-25

<table>
<tr><td colspan="12" align="center">Statistics of Ph.D. National Admission Winter Session 2024-25 (Batch 46)</td></tr>
<tr><td rowspan="4">S.No.</td><td rowspan="4">DEPARTMENT</td><td colspan="4">Application</td><td colspan="3">Interview</td><td colspan="3">Provisionally Admitted</td></tr>
<tr><td rowspan="3">Applied</td><td rowspan="3">Not Shortlisted</td><td rowspan="3">Shortlisted</td><td rowspan="3">Eligible for Entrance Exam</td><td colspan="2">Selected for Interview</td><td rowspan="3">Selected in Interview</td><td colspan="3">Mode of Study</td></tr>
<tr><td rowspan="2">Through Entrance Exam</td><td rowspan="2">Exemption from Entrance Exam</td><td rowspan="2">Full Time</td><td rowspan="2">Part Time</td><td rowspan="2">Total</td></tr>
<tr></tr>
<tr><td colspan="12" align="center">Engineering</td></tr>
<tr><td>1</td><td>AERO</td><td>9</td><td>0</td><td>9</td><td>9</td><td>8</td><td>0</td><td>8</td><td>2</td><td>5</td><td>7</td></tr>
<tr><td>2</td><td>BIOMEDICAL</td><td>1</td><td>0</td><td>1</td><td>1</td><td>1</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>3</td><td>BIOTECH</td><td>16</td><td>0</td><td>16</td><td>15</td><td>12</td><td>1</td><td>12</td><td>4</td><td>6</td><td>10</td></tr>
<tr><td>4</td><td>CIVIL</td><td>5</td><td>0</td><td>5</td><td>5</td><td>4</td><td>0</td><td>3</td><td>1</td><td>0</td><td>1</td></tr>
<tr><td>5</td><td>CSE</td><td>85</td><td>0</td><td>85</td><td>84</td><td>68</td><td>1</td><td>64</td><td>7</td><td>43</td><td>50</td></tr>
<tr><td>6</td><td>IT</td><td>4</td><td>0</td><td>4</td><td>3</td><td>3</td><td>1</td><td>3</td><td>0</td><td>1</td><td>1</td></tr>
<tr><td>7</td><td>ECE</td><td>30</td><td>0</td><td>30</td><td>29</td><td>20</td><td>1</td><td>18</td><td>3</td><td>9</td><td>12</td></tr>
<tr><td>8</td><td>EEE</td><td>6</td><td>0</td><td>6</td><td>6</td><td>6</td><td>0</td><td>5</td><td>0</td><td>4</td><td>4</td></tr>
<tr><td>9</td><td>MECH</td><td>24</td><td>0</td><td>24</td><td>24</td><td>23</td><td>0</td><td>23</td><td>2</td><td>16</td><td>18</td></tr>
<tr><td></td><td>TOTAL</td><td>180</td><td>0</td><td>180</td><td>176</td><td>145</td><td>4</td><td>137</td><td>19</td><td>84</td><td>103</td></tr>
<tr><td colspan="12" align="center">S&H</td></tr>
<tr><td>10</td><td>CHEMISTRY</td><td>11</td><td>0</td><td>11</td><td>9</td><td>8</td><td>2</td><td>9</td><td>5</td><td>4</td><td>9</td></tr>
<tr><td>11</td><td>COMPUTER SCIENCE</td><td>16</td><td>0</td><td>16</td><td>9</td><td>6</td><td>7</td><td>12</td><td>1</td><td>12</td><td>13</td></tr>
<tr><td>12</td><td>ENGLISH</td><td>40</td><td>2</td><td>38</td><td>13</td><td>10</td><td>25</td><td>11</td><td>3</td><td>6</td><td>9</td></tr>
<tr><td>13</td><td>MATHS</td><td>26</td><td>0</td><td>26</td><td>13</td><td>11</td><td>13</td><td>21</td><td>11</td><td>7</td><td>18</td></tr>
<tr><td>14</td><td>PHYSICS</td><td>16</td><td>0</td><td>16</td><td>14</td><td>12</td><td>2</td><td>12</td><td>9</td><td>2</td><td>11</td></tr>
<tr><td></td><td>TOTAL</td><td>109</td><td>2</td><td>107</td><td>58</td><td>47</td><td>49</td><td>65</td><td>29</td><td>31</td><td>60</td></tr>
<tr><td colspan="12" align="center">MBA, Commerce & Media and Communication</td></tr>
<tr><td>15</td><td>MBA</td><td>23</td><td>0</td><td>23</td><td>20</td><td>18</td><td>3</td><td>18</td><td>2</td><td>13</td><td>15</td></tr>
<tr><td>16</td><td>COMMERCE</td><td>15</td><td>1</td><td>14</td><td>4</td><td>3</td><td>10</td><td>11</td><td>3</td><td>5</td><td>8</td></tr>
<tr><td>17</td><td>MEDIA AND COMMUNICATION</td><td>2</td><td>0</td><td>2</td><td>2</td><td>2</td><td>0</td><td>2</td><td>2</td><td>0</td><td>2</td></tr>
<tr><td></td><td>TOTAL</td><td>40</td><td>1</td><td>39</td><td>26</td><td>23</td><td>13</td><td>31</td><td>7</td><td>18</td><td>25</td></tr>
<tr><td></td><td>OVER ALL TOTAL</td><td>329</td><td>3</td><td>326</td><td>260</td><td>215</td><td>66</td><td>233</td><td>55</td><td>133</td><td>188</td></tr>
</table>

Action:

The Research Board approved and ratified the list of Ph.D. candidates provisionally admitted for the Winter Session of the Academic Year 2024-25. Departments are advised to ensure compliance with admission requirements and final enrollment.

Item No.: 27.14 To record vacant positions of Research Supervisors in the Winter Session 2024-25.

Discussion:

The Dean, Research Studies to record vacant positions of Research Supervisors in the Winter Session 2024-25 are given in Table 6.

Table 6: Vacant positions of Research Supervisors in the Winter Session 2024-25.

S. No.	Department	No.of vacant positions of Research Supervisors
1	AERO	18
2	BIOMEDICAL	33
3	BIOTECH	24
4	CIVIL	36
5	CSE	439
6	IT	12
7	ECE	398
8	EEE	48
9	MECH	153
10	CHEMISTRY	63
11	ENGLISH	0
12	MATHS	116
13	PHYSICS	78
14	MBA	20
15	LAW	1
16	COMMERCE	38
17	MEDIA AND COMMUNICATION	4
Total No. of Vacancy		**1481**

Action:

The Research Board approved and recorded the vacant Research Supervisor positions across various departments for the Winter Session 2024-25, as detailed in Table 6. Departments are encouraged to strategically address the vacancies by promoting research opportunities and enhancing faculty engagement to ensure a balanced distribution of Ph.D. scholars.

Item No.: 27.15 To record recognition and approval granted to faculty members for Research Supervisors since the last Research Board meeting.

Discussion:

Dean, Research Studies presented the list of faculty members who have submitted the applications for recognition of research supervisor and to consider them for Supervisorship to guide the Ph.D. scholars. The details of the submitted applications are given below in Table 7.

Table 7: Status of applications for supervisor ship

S. No.	Research Supervisor Recognition No.	Name of the Research Supervisor	Designation	Department	Remarks
1	576010.AE.24	Dr Vutukuru Shravan Koundinya	Assistant Professor	Aeronautical	Eligible
2	38707.BT.23	Dr Arunachalam P	Assistant Professor	Biomedical	Eligible
3	593007BT24	Dr S Hema	Assistant Professor	Biomedical	Eligible
4	594008BT24	Dr R Indumathi	Assistant Professor	Biomedical	Eligible
5	629009BT24	Dr Kishore Kanna R	Assistant Professor	Biomedical	Eligible
6	559018.BI.24	N M Hariharan	Assistant Professor	Biotechnology	Eligible
7	555017.BI.24	Dr Sai Sateesh Sagiri	Associate Professor	Biotechnology	Eligible
8	568019.BI.24	Dr V Leena Sharan	Assistant Professor	Biotechnology	Eligible
9	595027CV24	Dr S Baskar	Assistant Professor	Civil	Eligible
10	630028CV24	Dr R M Saravanakumar	Assistant Professor	Civil	Eligible
11	560001.CO.24	A Jayabal	Professor	Commerce	Eligible
12	561002.CO.24	A Arumugam	Professor	Commerce	Eligible
13	573003.CO.24	Dr C Vijai	Associate Professor	Commerce	Eligible
14	574004.CO.24	Dr H Krupanandhan	Assistant Professor	Commerce	Eligible
15	575005.CO.24	Dr R Kathaian	Assistant Professor	Commerce	Eligible
16	581006.CO.24	Dr G Balasubramanian	Assistant Professor	Commerce	Eligible

17	582007.CO.24	Dr M Mohammed Sikkandher	Assistant Professor	Commerce	Eligible
18	588008.CO.24	Dr S Vimaladevi	Assistant Professor	Commerce	Eligible
19	596008CO24	Dr S M Srilanga Meenatshi	Assistant Professor	Commerce	Eligible
20	551115.CS.24	Dr Sadish Sendil Murugaraj	Professor	CSE	Eligible
21	552116.CS.24	Dr Kujani T	Assistant Professor	CSE	Eligible
22	553117.CS.24	Dr T Aravind	Assistant Professor	CSE	Eligible
23	554118.CS.24	Dr K Nithya	Assistant Professor	CSE	Eligible
24	557119.CS.24	S Suchitra	Professor	CSE	Eligible
25	558120.CS.24	T B Sivakumar	Associate Professor	CSE	Eligible
26	563121.CS.24	Dr G Gunasekaran	Professor	CSE	Eligible
27	564122.CS.24	Dr S Rajaprakash	Professor	CSE	Eligible
28	565123.CS.24	Dr K Boopalan	Associate Professor	CSE	Eligible
29	566124.CS.24	Dr R Chithambaramani	Associate Professor	CSE	Eligible
30	570125.CS.24	Dr Govinda Rajulu G	Professor	CSE	Eligible
31	577126.CS.24	Dr J Raja	Associate Professor	CSE	Eligible
32	578127.CS.24	Dr V Kalpana	Associate Professor	CSE	Eligible
33	583128.CS.24	Dr Vidhyasagar B S	Associate Professor	CSE	Eligible
34	589129.CS.24	Dr R Thanga Selvi	Associate Professor	CSE	Eligible
35	590130.CS.24	Dr Prabhu Shankar B	Associate Professor	CSE	Eligible
36	591131.CS.24	Dr Sam Navin M	Assistant Professor	CSE	Eligible
37	592132CS24	Dr Ganeshan R	Associate Professor	CSE	Eligible
38	598134CS24	Dr S Arun Kumar	Associate Professor	CSE	Eligible
39	599135CS24	Dr R Sundar	Associate Professor	CSE	Eligible
40	600136CS24	Dr T Saju Raj	Associate Professor	CSE	Eligible
41	602138CS24	Dr C Edwin Singh	Assistant Professor	CSE	Eligible
42	603139CS24	Dr V Ramkumar	Assistant Professor	CSE	Eligible
43	604140CS24	Dr R Rajalakshmi	Assistant Professor	CSE	Eligible
44	605141CS24	Dr T Thilagam	Assistant Professor	CSE	Eligible
45	606142CS24	Dr C Selvarathi	Assistant Professor	CSE	Eligible

46	607143CS24	Dr Anandh R	Assistant Professor	CSE	Eligible
47	608144CS24	Dr Manjunathan N	Assistant Professor	CSE	Eligible
48	609145CS24	Dr Umanesan R	Assistant Professor	CSE	Eligible
49	610146CS24	Dr S Jagadeesh	Assistant Professor	CSE	Eligible
50	611147CS24	Dr Kishore Kumar K	Assistant Professor	CSE	Eligible
51	612148CS24	Dr C Saranya Jothi	Assistant Professor	CSE	Eligible
52	631149CS24	Dr Prabaharan G	Associate Professor	CSE	Eligible
53	632150CS24	Dr R Madonna Arieth	Associate Professor	CSE	Eligible
54	633151CS24	Dr Prathik A	Assistant Professor	CSE	Eligible
55	634152CS24	Dr K Udayakumar	Assistant Professor	CSE	Eligible
56	635153CS24	Dr S Hariharasudhan	Assistant Professor	CSE	Eligible
57	636154CS24	Dr B Senthilkumaran	Assistant Professor	CSE	Eligible
58	637155CS24	Dr R Rajesh	Assistant Professor	CSE	Eligible
59	597133CS24	Dr S Alex David	Professor	CSE (AI)	Eligible
60	601137CS24	Dr P P Devi	Assistant Professor	CSE (AI)	Eligible
61	567092.EC.24	Dr R Hushein	Associate Professor	ECE	Eligible
62	571093.EC.24	Dr D Rajesh Kumar	Assistant Professor	ECE	Eligible
63	579094.EC.24	Dr C Ambika Bhuvaneswari	Assistant Professor	ECE	Eligible
64	585095.EC.24	Dr Arun C A	Associate Professor	ECE	Eligible
65	586096.EC.24	Dr Ezilarasan M R	Assistant Professor	ECE	Eligible
66	613095EC24	Dr Vignesh Prasanna N	Associate Professor	ECE	Eligible
67	614096EC24	Dr Helina Rajini Suresh	Associate Professor	ECE	Eligible
68	615097EC24	Dr M Ajisha	Assistant Professor	ECE	Eligible
69	616098EC24	Dr K E Purushothaman	Assistant Professor	ECE	Eligible
70	617099EC24	Dr Bikash Ranjan Behera	Assistant Professor	ECE	Eligible
71	618100EC24	Dr Debashish Pal	Assistant Professor	ECE	Eligible
72	619101EC24	Dr Chadalavada Mohan Sai Kumar	Assistant Professor	ECE	Eligible
73	638102EC24	Dr S Aswath	Assistant Professor	ECE	Eligible
74	639103EC24	Dr Vinoth Kumar V	Assistant Professor	ECE	Eligible

75	640104EC24	Dr A Farithkhan	Assistant Professor	ECE	Eligible
76	641105EC24	Dr V Gnanaprakash	Assistant Professor	ECE	Eligible
77	642106EC24	Dr P Rajendiran	Assistant Professor	ECE	Eligible
78	643107EC24	Dr S Imran Javeed	Assistant Professor	ECE	Eligible
79	644108EC24	Dr R Jeen Retna Kumar	Assistant Professor	ECE	Eligible
80	645109EC24	Dr Berakhah.F.Stanley	Assistant Professor	ECE	Eligible
81	646110EC24	Dr M Manimaraboopathy	Assistant Professor	ECE	Eligible
82	562018.EE.24	Dr N K Rayaguru	Associate Professor	EEE	Eligible
83	580019.EE.24	Dr P Rajakumar	Assistant Professor	EEE	Eligible
84	620007IT24	Dr Durairaj K	Assistant Professor	IT	Eligible
85	621008IT24	Dr N Kathirvel	Assistant Professor	IT	Eligible
86	549032.BS.24	B Ramesh kumar	Associate Professor	Mathematics	Eligible
87	569033.BS.24	Dr D Kanagajothi	Associate Professor	Mathematics	Eligible
88	622034BS24	Dr M Premalatha	Associate Professor	Mathematics	Eligible
89	623035BS24	Dr P Saranya	Assistant Professor	Mathematics	Eligible
90	624036BS24	Dr P K Hemalatha	Assistant Professor	Mathematics	Eligible
91	625037BS24	Dr Elavarasan K	Assistant Professor	Mathematics	Eligible
92	626038BS24	Dr T Nagalakshmi	Assistant Professor	Mathematics	Eligible
93	627039BS24	Dr S Karthik	Assistant Professor	Mathematics	Eligible
94	628040BS24	Dr A Selvaraj	Assistant Professor	Mathematics	Eligible
95	556019.MS.24	Dr K R Sowmya	Professor	MBA	Eligible
96	550076.ME.24	Dr Soundhar A	Assistant Professor	Mechanical	Eligible
97	647077ME24	Dr Belgin Paul D L	Assistant Professor	Mechanical	Eligible
98	584001.MC.24	Dr M Saravanan	Associate Professor	Media	Eligible
99	572030.BS.24	Dr Babu Balraj	Associate Professor	Physics	Eligible

Action:

The Research Board approved the eligibility of 99 faculty members as Research Supervisors, based on their submitted applications and compliance with the established academic and institutional norms.

Item No.: 26.11 To record the Proposed Budget allocation for the Office of Research Studies for the financial year 2025-26.

Discussion:

Dean, Research Presented the Proposed Budget allocation to the Office of Research Studies for the financial year 2025-26 for recording as given in Table 7.

Table 7: Proposed Budget allocation for the Office of Research Studies for the financial year 2025-26.

S.No.	Particulars	Amount Required From April to June (WS2425 - 1/4/25 to 30/6/25)	Amount Required From July to November (SS2526 - 1/7/25 to 30/11/25)	Amount Required From December to March (WS2526 - 1/12/25 to 31/3/26)	Total	Remarks
G20.1 STUDENT MOTIVATIONAL INITIATIVE						
1	G20.1.1 CONFERENCE ATTENDED REGISTRATION FEES	20,000	40,000	40,000	1,00,000	Total No.of Scholar Pursing (Full Time and Part Time) - 911
2	G20.1.6 BONVOYAGE EXPENSES	20,000	40,000	40,000	1,00,000	Total No.of Scholar Pursing (Full Time and Part Time) - 911
3	*G20.1.3 VELTECH SCHOLARSHIP(PHD)*	90,000	1,50,000	1,20,000	3,60,000	Top-Up Scholarship - 15 (Rs 2000)
G17 EVENTS ORGANISED						
4	G17 EVENTS ORGANISED	20,000	40,000	5,40,000	6,00,000	Total No.of Scholar Pursing (Full Time and Part Time) - 911 Annual Research Scholar Meet, along with the acknowledgment of participants through awards (honoraroiums+travel+accommodation-12 experts; scholl wise max Rs.18000/school (5 schools)); Appreciation awards for top performer-allround activity above the compliance) compliance
G69 RESEARCH STUDIES						
5	*G69.1.1 DC MEMBERS REMUNERATION- PHD*	9,09,000	15,15,000	12,12,000	36,36,000	Total No.of. DC/RAC Meeting - 910 Total No.of. Synopsis Meeting - 150 Total No.of. Pre Viva Meeting - 152
6	*G69.1.2 INCIDENCIAL EXPENSES - PHD*	2,00,000	2,00,000	1,00,000	5,00,000	Facilities and Infrastructure for Ph.D. Scholars
7	*G69.1.3 TRAVELLING ALLOWANCE -PHD [300 Km x Rs. 15 = Rs.4500]*	4,63,500	7,72,500	6,18,000	18,54,000	Total No.of. DC/RAC Meeting - 110 Total No.of. Synopsis Meeting - 150 Total No.of. Pre Viva Meeting - 152
8	*G69.1.4 FULL TIME SCHOLARS STIPEND-PHD*	1,81,53,750	3,02,56,250	2,42,05,000	7,26,15,000	**(Non GATE / NET / SLET)** Total No.of Scholar Pursing - 207 Total No.of Scholar Expected - 68 **(GATE / NET / SLET)** Total No.of Scholar Pursing - 05 Total No.of Scholar Expected - 06 **Direct Ph.D. (Without GATE)** Total No.of Scholar Pursing - 02 Total No.of Scholar Expected - 05 **Direct Ph.D. (With GATE)** Total No.of Scholar Pursing - Nil Total No.of Scholar Expected - 04
9	*G69.1.5 PRINTING AND*	20,000	40,000	40,000	1,00,000	
10	*G69.1.6 MISCELLANIOUS - PHD*	25,000	25,000	4,50,000	5,00,000	
Total (Rupees Eight Crore Three-Lakhs and Sixty Five Thousand Only)					**8,03,65,000**	

Action:

The Research Board reviewed and acknowledged the proposed budget allocation for the Office of Research Studies for the financial year 2025-26 and found it satisfactory. The board recommended periodic evaluation of fund utilization to ensure efficient allocation, optimal resource usage, and alignment with institutional research priorities.

Any other items with the permission of the Chairperson.

There were no additional items discussed. The meeting concluded with a vote of thanks, expressing appreciation to all members for their valuable contributions.

Department of Aeronautical Engineering
Progression & Achievements for AY 2024-25
Hearty Welcome to Members of the 49th ACM

Vision & Mission
Highlights of the Department
Programs Offered
Faculty Data, R&D and Consultancy
Students Data & Achievements
Events & Conference
Infrastructure & Outcomes
Academic Initiatives

Vision & Mission

Vision
Excellence in educational and research practices of Aeronautical Engineering

Mission

Nurture **quality education ambience** to students by employing modern education pedagogies
- Project Based Learning
- Smart Class Rooms

Provide vital **state of the art research facilities** to students and faculty members with opportunities to create, interpret, apply and disseminate knowledge.
- High Speed Bearing Test Facility
- High Speed Jet Facility

Develop **linkages with the world class research organizations** and institutions for excellence in teaching and research
- Electives by Industry & Abroad Experts.
- MOU with Premier Abroad Institutes

Promote Industry Institute linkages; **Nurture entrepreneurship**
- Indo – Korea Joint Collaboration
- Consulting Services to Industry

Highlights of the Department

QS-19 World   **QS-35 Asia**

10 Funded R&D – Rs. **98 Lakh**
6 Consultancy – Rs. **57 Lakh**
115+ Scopus / SCI Publications & **7** Patent Granted

43 Students - Abroad Higher Studies
30+ students – Abroad & **35+ Students** - Industry Projects
2 Industry Supported Labs – **GTRE - HSBT & Avironix - FMC**

Indo Korea Joint R&D Initiative

India : Vel Tech & UCAL, South Korea : DGIST & Rovitek
3 UG, 3 PG & 1 Ph.D. Research Project

Bronze Medal in Aero India 2019 – Drone Olymphics, MoD
2nd Prize in Aero GCS Global Competition
Winner TAFE, Project Competition

Innovative TLP & Infrastructure
- Student Centric & ALM
- ICT Enabled Class Room
- CDIO – PBL Integrated Curriculum for R21

Best Academic Award
Mr. Nikhil Kohar, Final Year B.Tech. Aero student awarded by **Bank of Baroda**.

4

Programs Offered

B.Tech. Aeronautical Engineering
Specialization in
Aerospace & Defense
Autonomous Drone Technology
Product Design & Development / Computational Engineering

Minor in
UAV Remote Sensing & Mapping
Honor in
Aerial Robotics

M.Tech. Aeronautical Engineering
Specialization in
Unmanned Aerial Vehicle
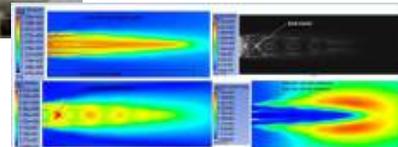
P.hD. Aeronautical Engineering
Thrust Areas
Autonomous Vehicles I Materials I Aerodynamics

Faculty Data, R&D and Consultancy

Faculty
- 9 Assistant Professor
- 2 Associate Professor
- 4 Professor, 1 Professor of Emeritus

R&D & Consultancy
- 57 Lakh Consultancy from 6 Projects
- 98 Lakh R&D from 10 Projects

Publication
- 15 Scopus + WOS and counting - 2025
- 17 WOS - 2024
- 21 Scopus - 2024

FDP

Series 3   Series 2   Series 1

R&D Projects

Faculty	Title	Agency	Amount	Duration
Dr. NAREN SHANKAR.R	Optimizing Supersonic Co-Axial Nozzle design for Mixing Enhancement	SERB TARE	825000	2022 - Ongoing
Dr. SURENDAR. G	Development of Low cost Remotely operated platform for Bathymetry & water resource applications	ISRO - Respond	2562460	2024 - Ongoing
Dr. SURENDAR. G	UAAV based eDNA mapping of an aquatic ecosystem of Loktak lake for fishery management	ISRO - Respond	4200000	2025 - Ongoing
Dr. NAREN SHANKAR.R	Hypersonic Shock Tunnel for Biotechnological Applications	VTU Seed Fund	199210	2021 - 2022
Dr. SAI PRASANNA KUMAR. J.V	Multi-Layer Thermal Barrier Coating on C-C Composites	VTU Seed Fund	125000	2022 - 2023
Dr. V. KAMALAKAR & Dr. JAGANRAJ. R	Development of In-House Low-Cost LIDAR System and Studies on Diffraction and Time of Flight to Optimize the Point Clouds for Drone Fault Detection Methodology	VTU Seed Fund	194000	2023 - 2024
Dr. SURENDAR G	Computational Fluid Dynamics Analysis of Unmanned Vehicles	VTU Seed Fund	181000	2023 - 2024
Dr. GANESAN. S	Performance and Emission Analysis of Alternate Fuels	VTU RDF	75000	2023-2024
Dr. JOSEPH J & Dr. JAISWAL.B.L	Performance Testing and Tuning of Bearing Supports of HTFE-25 Core Engine on for Possible Axial and Radial Load Spectra Encountered during Engine Operation	HAL	1500000	2017 - Ongoing

Consultancy Projects

Dr. JOSEPH J & Dr. JAISWAL.B.L	Technical testing and analysis services - Bearing Test Rig	GE, Bangalore	3540000	2022-2023
Dr. SAI PRASANNA KUMAR. J.V	Multi-Layer Thermal Barrier Coating on C-C Composites	DoS – VSSC, Trivandrum	236000	2023-24
Dr. JOSEPH J & Dr. JAISWAL.B.L	Technical testing and analysis services - Bearing Test Rig	GE, Bangalore	1770000	2023-24
Dr. SURENDAR G	Design Services – CFD Analysis	Yottec Systems, Bangalore	25488	2024-25
Dr. JAGANRAJ R	Wind Turbine Monitoring using Drones	Flynetics Systems Private Limited, WB	174000	2025-26
Dr. JAGANRAJ R	Development of GPS System for Drones	Avironix	73482	2025-26

Development of Low cost Remotely operated platform for Bathymetry & water resource applications

Principal Investigator: **Dr. Surendar G**

Funding Agency: ISRO | Project Cost: INR 25.6 Lakhs | Duration: 2024-2026

This project aims to design and develop an indigenous, low-cost, remotely operated platform with state-of-the-art facilities available at Vel Tech, Chennai and NRSC, Hyderabad. It comprises a customised rugged platform with integrated propulsion, telemetry, and control electronics for water-based applications. The vehicle's design is focused on reducing the survey time and logistic efforts, which are critical in the waterbody surveys. Also, it will cater to the indigenously developed payload systems onboard for in-situ bathymetry and water quality assessments for evaluating water quality parameters derived from satellite remote sensing techniques.

OPTIMIZING SUPERSONIC CO-AXIAL NOZZLE DESIGN FOR MIXING ENHANCEMENT
SERB TARE No: TAR/2021/000093

PI Name: Dr. R. Naren Shankar,
Professor, Department of Aeronautical Engineering,
Veltech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

Mentor: Dr. Muruganandam TM
Professor, Department of Aerospace Engineering,
National Centre for Combustion Research and Development (NCCRD),
Indian Institute of Technology, Madras. Chennai: 600036.
Email id: murgi@ae.iitm.ac.in

Duration: 3 Years (Jan 2022 to Jan 2025)
Budget: INR 18.3 Lakhs
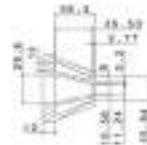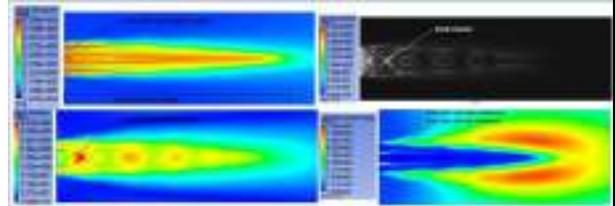
Consultancy Work Proposal

Development of GPS module as per Specifications

Proposal Submitted to

AVIRONIX

Dr. R. Jaganraj, Aero, Vel Tech
Shri. Bala Suresh, Vel Tech TBI

Rs. 73,000/-

Patents

1 Patent with Industry – Product in Service
1 Patent – Initiated for Commercialization
Total – 7 Patents Granted

Students & Achievements
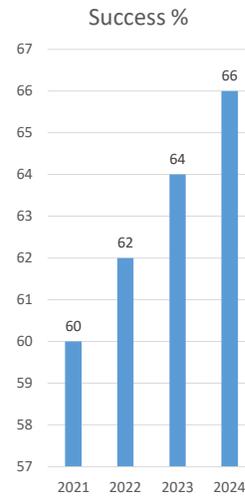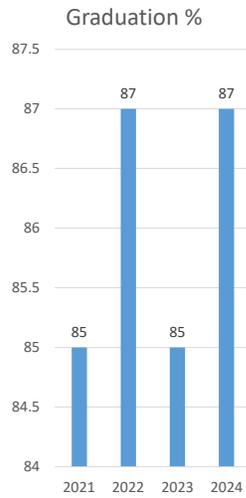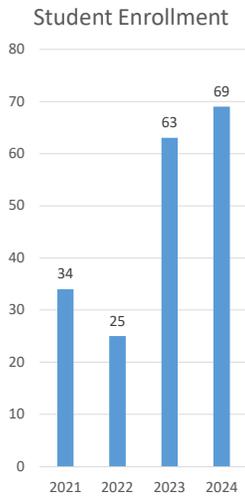
Students & Achievements

Students & Achievements

Students & Achievements

Abroad Scholarships - 2025

Events & Conference

Impact 2025

Papers Received – 114
Selected for Conference – 57
Published in SCI – 10
Published in Scopus - 15

Events & Conference

Events & Conference

Value Added Course on
- Composites
- CFD
- FEA

Events & Conference

IV to ISRO & BIRLA

Events & Conference

ICA Event – My First Flight

Infra & Outcomes

High Speed Jet Facility
2 PhD Awarded (1 Full Time), 8 SCI papers
Budget – 17 Lakh (50% Institute ; 50 % R&D Funding)

Fuel Cell for Drone
1 Synopsis, 4 SCI papers (1 Q1)
Budget – 4 Lakh
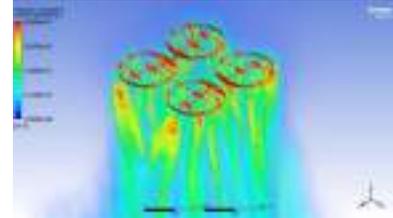
Computer, Drone Parts
1 PhD Awarded, 4 SCI papers
Budget – 4 Lakh

Academic Initiatives

PBL Projects

Academic Flexibility

- Facility for Sem Long Internship – Flexible Credit System
- NEP Implementation – Structure for ME & ME
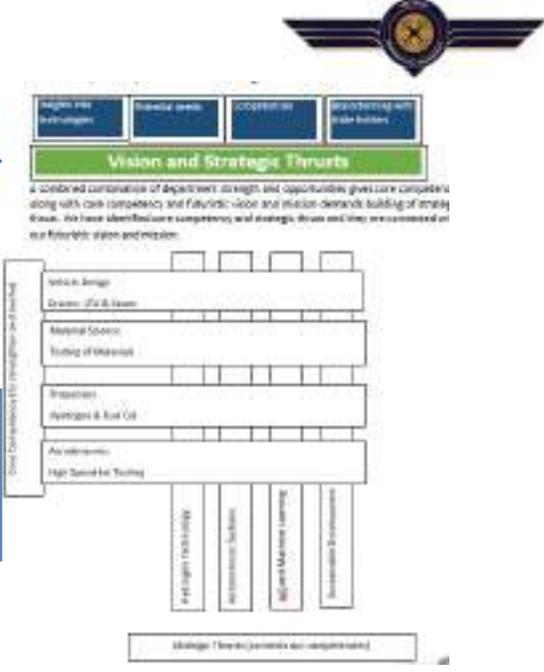- Smart Class Room
- ABL
- Initiates on OCW

Strategic Plan

Market Study
Defense & Space Policy
Drones & Air Mobility
Sustainable Solutions

Future Plans

SCHOOL OF MECHANICAL AND CONSTRUCTION

Department of Civil Engineering

Progression and Achievements (01 Mar 2024 - 30 April 2025)

Students Details (AY 2024 – 2025)

CIVIL ENGINEERING – STUDENT COUNT

		Intake	Count
UG	I	30	14
	II	60	24
	III	60	23
	IV	60	36
Total		210	74
PG	I	18(SE)+18(EE)	15+7
	II	18(SE)+18(EE)	17+11
Total		72	50
PhD	FT		16
	PT		29
Total			45

FACULTY COUNT

Category	Count
Professor	6
Associate Professor	5
Assistant Professor	9
Total	20

R&D Projects (ongoing and sanctioned)

Funded Project	Amount in Lakhs.
2	37.2 Lakhs

Seed Fund	Amount in Lakhs.
1	1.5 Lakhs

Consultancy	Amount in Lakhs.
19	9.28 Lakhs

| Vel Tech	School of Mechanical and Construction	3

Consultancy Details

S. No.	PI Name	Co-PI names if any	Name of the Dept., where Project is sanctioned	Project title*	Name of the Funding agency	Duration of the project	Amount (Rs)
				CAY (2024-25)			
1	Dr. G. Kumar	Mr. S. Baskar Dr. M. Vinod Kumar	Civil Engineering	Inspection of Third Party Quality Checking	Dindigul Municipal Corporation, Dindigul	1 week	1,63,100
2	Dr. A. Geetha Selvarani	Dr. G. Kumar, Dr. S. Baskar, Dr. M. Vinod Kumar	Civil Engineering	Comprehensive Third Party Site Inspection	Chennai holding and vishal developers, Chennai	1 week	59,000
3	Dr. M. Vinod Kumar	Dr. G. Kumar Dr. S. Baskar	Civil Engineering	Third-party site inspection audit	Sugali enterprises Pvt Ltd., Chennai	1 week	23,600
4	Dr. M. Vinod Kumar	Dr. G. Kumar Dr. S. Baskar	Civil Engineering	Third-party site inspection audit	Sugali enterprises Pvt Ltd., Chennai	1 week	11,800
5	Dr. S. Baskar	Dr. G. Kumar Dr. M. Vinod Kumar	Civil Engineering	Third-party site inspection audit	Vallimayil Properties, Chennai	1 week	11,800
6	Dr. M. Vinod Kumar	Dr. G. Kumar Dr. S. Baskar	Civil Engineering	Comprehensive Third Party Earth Filling Survey Work	Thiruthani municipal corporation, Thiruthani	1 week	83,730
7	Dr. S. Samson	Dr. M. Vinod Kumar	Civil Engineering	Faecal Sludge treatment design	Minjur Panchayat Union, Chennai	1 week	44,250
8	Dr. G. Kumar	Mr. Baskar, Dr. M. Vinod Kumar	Civil Engineering	Inspection of Third Party Quality Checking	Dindigul Municipal Corporation, Dindigul	1 week	1,85,835
9	Dr. S. Samson	Dr. M. Vinod Kumar	Civil Engineering	Water tank design Audit	Minjur Panchayat Union, Chennai	1 week	54,599
10	Dr. S. Baskar	Dr. G. Kumar Dr. M. Vinod Kumar	Civil Engineering	Drawing Layout using CADD	Athira Geospatial services Pvt. Ltd., Pallikaranai, Chennai	1 week	11,800
11	Dr. M. Vinod Kumar	Dr. A. Chithambar Ganesh Mr. S. Baskar	Civil Engineering	Third-party site inspection report	Avadi Housing Board Land Audit, Chennai	1 week	23,600
12	Dr. J. Logeshwari	-	Civil Engineering	SBC calculation for site in Kilputhur village, Kancheepuram site.	Tamil Nadu Civil Supplies Corporation, Regional Office, Kancheepuram	1 week	3,540
13	Dr. S. Samson	Dr. A. Chithambar Ganesh Mr. S. Baskar	Civil Engineering	Compression strength for solid blocks	Florida Construction Pvt. Ltd., Chennai.	1 week	3,776
14	Dr. S. Samson	Dr. S. Baskar	Civil Engineering	Audit Report for Community Building, Minjur	Minjur Panchayat Union, Chennai	1 week	70,800
15	Dr. S. Baskar	Dr. G. Kumar Dr. M. Vinod Kumar	Civil Engineering	Third-party site inspection audit	Emphire Estates, Chennai	1 week	11,800
16	Dr. S. Baskar	Dr. G. Kumar Dr. M. Vinod Kumar	Civil Engineering	Third-party site inspection audit	Kalyani City, Chennai	1 week	11,800
17	Dr. G. Kumar	Mr. Baskar, Dr. M. Vinod Kumar	Civil Engineering	Inspection of Third Party Quality Checking	Erode Municipal Corporation, Erode	1 week	59,000
18	Dr. M. Vinod Kumar	Dr. G. Kumar Dr. S. Baskar Dr. A. Chithambar Ganesh	Civil Engineering	Building Design Audit	Thiruthani Municipal Corporation, Thiruthani	1 week	76,700
19	Dr. M. Vinod Kumar	Dr. G. Kumar Dr. S. Baskar	Civil Engineering	Third-party site inspection audit	One World Land Holdings, Chennai	1 week	17,700
						Amount received (in Lacs)	9.28220

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Publications & Patents CY 2024

Journal Publications	No.S
WoS Journals	34
Scopus Journals	52
Total	86

Patents	No.S
Filled	3
Published	14
Granted	3

Vel Tech	School of Mechanical and Construction	5
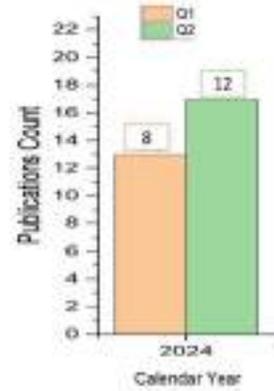
Faculty Awards & Achievements

The following Faculty Members were received **REWARDS FOR PUBLICATIONS** for the CY 2024

Name of the Faculty	Designation	Amount
Dr. KANDASAMY. S	Professor	₹ 30,000
Dr. S. SELVAKUMAR	Associate Professor	₹ 5,000
Dr. SAMSON. S	Professor	₹ 15,000
Dr. G. KUMAR	Professor	₹ 35,000
Dr. LOGESHWARI. J	Associate Professor	₹ 10,000
Dr. VINODKUMAR. M	Professor	₹ 70,000
Dr. TAMILARASAN. K	Associate Professor	₹ 60,000
Dr. A. CHITHAMBAR GANESH	Associate Professor	₹ 2,500
Dr. GOPIKUMAR. S	Assistant Professor	₹ 35,000
Dr. CICI JENNIFER RAJ. J	Associate Professor	₹ 30,000
NELSON PONNU DURAI. T	Assistant Professor	₹ 5,000
Dr. BASKAR S	Assistant Professor	₹ 5,000
UDHAYA KUMAR. T	Assistant Professor	₹ 5,000

The following FOUR Faculty Members were received **Research Development Fund (RDF) Seed Reward** for the publications in the CY 2024.

Name of the Faculty	Designation	Cumulative Impact Factor	No. of Publications	Reward (Rs)
Dr. S. Samson	Professor	4	2	50000
Dr. A. Chithambar Ganesh	Associate Professor	3.6	2	50000
Dr. K. Tamilarasan	Assistant Professor	4	1	50000
Dr. S. Selvakumar	Assistant Professor	11.9	3	75000

Vel Tech	School of Mechanical and Construction	6

Faculty Awards & Achievements

The following Faculty Members were received REWARDS FOR Patents for the CY 2024

Name of the Faculty	Designation	Amount
Nelson Ponnu Durai. T	Assistant Professor	₹10,000
Dr. Baskar S	Assistant Professor	₹5,833
Dr. Aswin Sidhaarth. K.R	Professor	₹7,500
Dr. Samson. S	Professor	₹7,333
Udhaya Kumar. T	Assistant Professor	₹ 26,666
Dr. Logeshwari. J	Associate Professor	₹ 3,333
Dr. Vinodkumar. M	Professor	₹23,167
Dr. Tamilarasan. K	Associate Professor	₹ 6,500
Dr. A. Chithambar Ganesh	Assistant Professor	₹ 8,333
Dr. Gaayathri. K. K	Assistant Professor	₹ 8,333
Dr. Anita Jessie. J	Assistant Professor	₹ 8,333
Dr. Cici Jennifer Raj. J	Associate Professor	₹2,500
Dr. Shanmuga Priya. J	Assistant Professor	₹ 10,000

Vel Tech	School of Mechanical and Construction	7

Placement & Graduate Ratio

Graduate Ratio (BATCH 2020-24)	Total
Total Students	61
Graduated	55
Percentage of Graduation	90.16

Higher Studies (BATCH 2020-24)	Total
Abroad	4
India	3

Placement	Total
BATCH 2020 - 24	31
BATCH 2021 – 25 (Till Date)	8
BATCH 2022 – 26 (Till Date)	3

Vel Tech	School of Mechanical and Construction	8

Credit courses offered

S. No.	Programs Conducted	Date	Recourse Person Details
1.	Programme Elective course "Building Information Modeling"	17.02.2025 to 24.02.2025	1. Mr. Rajesh Kumar, Director Technical Sales, TechApps Consulting Services, Chennai 2.Mr. Akbar Ali Khader, CEO & Managing Director - KHAAS Group, Chennai.
2.	IHL on "Slope Stability Modelling and Application of Geosynthetics"	07.04.2025 to 10.04.2025	Dr. Fauziah Ahmaad , Universiti Sains Malaysia, Engineering Campus, Malaysia.
3.	Programme Elective course on "IoT for Civil Engineering "	05.02.2024 to 10.02.2024	Dr. Bharani Iyengar Chief Executive Officer, ParaV Electronics, UK.

Vel Tech   **School of Mechanical and Construction**   9

Glimpse of Events Organized

Vel Tech   **School of Mechanical and Construction**   10

Value added Course Organized

S. No.	Programs Conducted	Date	Recourse Person Details
1.	Four Days Value Added Course on "Remote sensing/ DIP software training"	04.03.2024 to 07.03.2024	Mr. C. Selvaraj, Managing Director, Athira Geo Spatial Service Pvt. Ltd.,Chennai
2.	Four Days Value Added Course on "Advanced Structural Design & Detailing with Tekla Structures"	20.08.2024 to 23.08.2024	Mr. K. Dhinesh, Structural BIM Modeller, L&T Constructions, Chennai.
3.	Four Days Value Added Course on "Land Use Land Cover Mapping and its Applications"	07.08.2024 to 10.08.2024	Mr. C. Selvaraj, Managing Director, Athira Geo Spatial Service Pvt. Ltd., Chennai.
4.	Four Days Value Added Course on "Experimental learning on coordinate and elevation measurement by Electronic Total Station	04.09.2024 to 07.09.2024	Mr. C. Selvaraj Managing Director Athira Geo Spatial Service Pvt. Ltd. Chennai.

Vel Tech   **School of Mechanical and Construction**   11

Workshops Organized

S. No.	Programs Conducted	Date	Recourse Person Details
1.	Workshop on "Plumbing As-Built Diagram & WPD Celebration"	11.03.2025	Dr. S. Virapan, Chairman, chennai chapter, Indian Plumbing Association (IPA), Chennai.
2.	One Day Faculty Motivation Programme on "Writing a Research Article Using AI Tools and Prompt Engineering"	20.03.2024	Dr. G.Maheswaran, ISTE Member Founder, Sarguru Skill Development Centre, Salem.
3.	workshop on "Career Connect Conclave"	09.03.2024	Er. K. Rajendhiren, Secretary, Concrete Study Circle.
4.	One Day Hands on Training in"Practical Applications and Innovations using BIM Modelling Software"	21.03.2024	Mr. Shamil Ahamed Civil Design Engineer, CADD Tech Solutions, Chennai.
5.	Two Days Workshop on "Design of RC Structural Elements using STAAD Software" was conducted during	26.09.2024 to 27.09.2024	Mr. Balamourougane Managing Technical for Lavinsree Consulting Puducherry. Mr. Rajesh Kumar Director Technical Sales, TechApps Consulting Services, Chennai. Mr. R. Ganesh Kumar Senior Structural Engineer,TechApps Consulting Services, Chennai.
6.	One Day Hands on Training in "Programming and AI Systems for Civil Engineering Applications"	09.10.2024	Mr. M. Ramesh Kannan Assistant Professor Anna University, Chennai.
7.	One Day Faculty Motivation Programme on "Infographics & Statistical data Visualization for Research"	13.07.2024	Dr. G. Maheswaran, Executive Committee Member, ISTE, New Delhi.

Vel Tech   **School of Mechanical and Construction**   12

FDP Organized

S. No.	Programs Conducted	Date	Recourse Person Details
1.	Six Days Faculty Motivation Programme on "Recent Advancements In Geotechnical Engineering: An Industry Perspective"	25.11.2024 to 30.11.2024	The resource persons from eminent industries and institutions
2.	Five Days Faculty Motivation Programme on "Disruotive Sustainable Innovations In Wastewater Treatment: A Way Forward"	16.12.2024 to 20.12.2024	The resource persons from eminent industries and institutions.

Vel Tech | **School of Mechanical and Construction** | 13

Glimpse of Events Organized

Vel Tech | **School of Mechanical and Construction** | 14

Students Academic Achievements

S. No.	Name of the students	Name of the event	Date of the event	Name of the award
1.	S Manikanta (VTU 27158)	Concrete Cube Test Competition – ACI	03.04.2025	First Prize: Rs. 10000
2.	M Sai Vyshnavi (VTU 26986)			Second Prize: Rs. 7000
3.	Ayush Kumar (VTU 27368)			Third Prize: Rs. 3000
4.	Yashnit Isaac (VTU 23866)	Dr Ambedkar institute of Technology "Word Knowledge day"	13.04.2025	Presented paper
5.	Deepak Kumar (VTU 24254)			Presented paper
6.	Ayush Kumar(VTU 27368)			Presented paper

Vel Tech   **School of Mechanical and Construction**   15

Students Academic Achievements

S. No.	Name of the students	Name of the event	Date of the event	Name of the award
1.	Mr. Bharat Kumar Sharma	Project Demo Competition (working Models) under the Theme: IoT for Civil Engineering	23.03.2024	First Prize: Rs. 5000
2.	Mr. Noor MD Rain			First Prize: Rs. 5000
3.	Mr. Carwyn Vyvian Rymbai			First Prize: Rs. 5000
4.	Mr. Sanjay Kumar			First Prize: Rs. 5000
5.	Ms. Kundeti Devi Saraswathi, and			Second Prize: Rs. 4000
6.	Mr. Guthireddy Jayanth Reddy			Second Prize: Rs. 4000
7.	Mr. Ramalingam			Second Prize: Rs. 4000
8.	Ms. Dipshika Howlader			Third Prize: Rs. 3000
9.	Ms. Shruti Lal			Third Prize: Rs. 3000

Vel Tech   **School of Mechanical and Construction**   16

Students Academic Achievements

Students Academic Achievements

B.Tech. Civil Engineering Students
Mr. SANJAY KUMAR SHRESTHA
Ms. KEERTHI ANUPOJU,
Mr. ANANJIT KHANGEMBAM
received **IC-ACI Scholarship** worth of Rs. 15,000 .
Co-ordinator:
Dr. S. Selvakumar

B.Tech. Third Year Civil Engineering Students participated in Project Demo Competition (working Models) under the Theme: IoT for Civil Engineering .
First Prize: Rs. 5000
Second Prize: Rs. 4000
Third Prize: Rs. 3000
Co-ordinator:
Dr. J. Logeshwari

Infrastructure Material Testing center

The **Inauguration of "Infrastructure Material Testing Center (IMTC)"** took place on 13.09.2024. The event was a significant milestone for the department, showcasing its commitment to enhancing academic and industry collaboration, as well as providing cutting-edge testing facilities for infrastructure materials.

Vel Tech | School of Mechanical and Construction | 19

NABL ACCREDITATION

Vel Tech | School of Mechanical and Construction | 20

One Year Strategic Plan

- Adopt measures to increase Industry collaboration.

- Increase research and consultancy activities.

- Adopt different teaching methods so that the students may develop critical thinking, problem-solving, and teamwork skills necessary for industry readiness.

- Upgrade the course content to meet the requirements of industry, research, employability skills, upcoming trends etc.

- Encourage student participation in national and international technical contests.

Vel Tech   School of Mechanical and Construction   22

Thank You

Vel Tech — School of Mechanical and Construction — 23

SCHOOL OF MECHANICAL AND CONSTRUCTION
Department of Mechanical Engineering

Progression and Achievements (01 Jan 2024 – Feb 2025)

Strength of Mechanical Engineering

FACULTY QUALIFICATION
- Doctorates : 42

INFRASTRUCTURE
- Class Rooms : 3
- Tutorial Rooms : 1
- Laboratories : 11

R & D and CONSULTANCY
- Research Funding : 36.64 Lakhs
-                          29.39 +7.25 Lakhs
- Consultancy :   7.47Lakhs

RESEARCH LABORATORIES
- Mechanical : 4

PUBLICATIONS
- WoS : 187
- Scopus : 179
- Patents : 22 (Granted-07)

STUDENTS INTERNSHIP
- Industry : 12 students
- International Internship : 2 students

FACULTY PARTICIPATION
- Faculty attended conference : 43
- Faculty attended FDP/Workshop : 99

EVENT ORGANIZED
- FDP/Workshop : 7

Students & Faculty Details (AY 2024 – 2025)

Intake / Admitted		Mech	
	Year	Intake	Admitted
UG	I	60	47
	II	60	75
	III	60	56
	IV	120	85
	Total	300	263
PG	I	18+41=59	18+41=59
	II	18+21=39	16+19=35
	Total	98	94
PhD	FT	--	16
	PT	--	74
	Total	--	90

Category	Mech
Professor	18
Associate Professor	18
Assistant Professor	6
Total	42

Qualification	Mech
With PDF & PhD	1
With PhD	41
Total	42

Gender	Mech
Male	40
Female	2
Total	42

Total Students in the School in AY 24-25 (UG: 263 , PG: 94 , Ph.D: 90)

Research Activities (CY 2024 – till date)

Project	Nos	Amount in Lakhs.
Funded Project	5	44.57*
Seed Fund	6	7.25
Consultancy	11	7.45

Journal Publications	Mech
WoS Journals	187
Scopus Journals	179
UGC Care Journals	1

Patents	Mech
Filed	32
Published	15
Granted	7

* Prof. Rajamani has sanctioned an amount of
Rs. 15,18,246/- for ASEAN-Indian Collaborative project

PhD Studies	Mech
Research Supervisors	39
Research Scholars	90
PhD Awarded	7+4*

FDP & Mobility (Faculty)	Mech
5 Days FDP Attended	99
Conference Participated	43

Student Achievements & Placments

Competition Details	Mech
No. of Students Participated	18
No of Events	4

Project Details	Mech
Industry Projects	7

Incoming Students	Mech
International Students	2

Placement	Mech
BATCH 2019 - 23	55
BATCH 2021 - 25 (Till Date)	30

Higher Studies (BATCH 2020-24)	Mech
Abroad	4

Graduate Ratio (BATCH 2020-24)	UG	PG
Total Students	78	39
Graduated	71	39
Percentage of Graduation	91	100

Vel Tech — School of Mechanical and Construction — 5

Student Exchange

Student Exchange (Incoming):

Mr. Wu Yu Chieh (VTUF 0063), an exchange student from Tamkang University, Taiwan, successfully completed coursework in the Department of Electrical and Communication Engineering and Mechanical Engineering during his program from 13th July 2024 to 31st December, 2024.

Mr. Lee Li An (VTUF 0064), an exchange student from Tamkang University, Taiwan, successfully completed coursework in the Department of Electrical and Communication Engineering and Mechanical Engineering during his program from 13th July 2024 to 31st December, 2024.

Vel Tech — School of Mechanical and Construction — 6

Faculty Visit Poltechnika

Dr. Kanak Kalita, Associate Professor of Mechanical Engineering, recently visited Politechnika Opolska, Poland, as part of a collaborative initiative with VSB -Technical University of Ostrava, Czech Republic. The visit included exploring advanced laboratories and cutting-edge research facilities in Mechanical Engineering. This opportunity strengthened global academic partnerships and showcased Vel Tech's commitment to adopting best practices from around the world. The visit lays the foundation for future collaborative research endeavours.

Vel Tech   **School of Mechanical and Construction**   7

Events Organized by Mechanical Engineering

The Department of Mechanical Engineering at Vel Tech inaugurated the ISUZU-Sponsored Automobile Engine Laboratory on 27th March 2025.
This lab was established as part of a CSR initiative by Isuzu Motors India Pvt. Ltd.
Mrs. Indhu S and Mr. Shivir Kumar Shukla from Isuzu graced the occasion and extended their support. The lab aims to enhance hands-on learning in automotive engineering for students.

Vel Tech   **School of Mechanical and Construction**   8

Events Organized by Mechanical Engineering

Workshop on Applied Data Analytics for Enhanced Research Outcomes
The **5-Day Workshop on Applied Data Analytics for Enhanced Research Outcomes** was organized by the **Office of Research & Development, Vel Tech** in coordination with Department of Mechanical Engineering from **January 7 to 11, 2025**, at the **AI Lab, Research Park**. Over **60 participants**, including faculty members and research scholars, attended sessions on statistical techniques, data analysis, and hands-on training with **JMP Pro software**.

Vel Tech　　　　**School of Mechanical and Construction**　　9

Events Organized by Mechanical Engineering

Department of Mechanical Engineering, successfully conducted a one-day workshop on *"Demonstration of Powder Metallurgy Technique using Vacuum Hot Press"*. Held on 26th February 2025 at the Centre for Materials and Manufacturing.

The one-day workshop on Technologies for Hydrogen Generation & Applications, held on 29 January 2025 at was successfully conducted. Sessions covered hydrogen fundamentals, electrolysers, fuel cell research, and hands-on operation of the electrolyser test bench.

A workshop on "Scope of Mechanical Engineer and Importance of Software Tools in Industry" was conducted for Mechanical Engineering students on 28th February 2025. The session was delivered by Mr. Baboo, Senior Engineer at Tata Electronics and an alumnus from the 2014 batch.

Vel Tech　　　　**School of Mechanical and Construction**　　10

Events Organized by Mechanical Engineering

A **skill development training program was conducted for our 3rd-year Mechanical Engineering students on 08.02.2025. The session focused on core placement opportunities, interview preparation, and self-development. The event was organized by Dr. M. Karthik, Assistant Professor, Department of Mechanical Engineering.**

An **Awareness Programme** was conducted on **05.02.2025** for **Murugappa Polytechnic College students**. Organized by the **Department of Mechanical Engineering**, the session focused on **higher studies opportunities and career growth**. Students were encouraged to pursue advanced education and skill development. A **visit was arranged to explore manufacturing and 3D printing technologies**.

The **IHL Course on Introduction to NDT and Case Studies, held from 3rd to 5th February 2025 was successfully conducted. All 30 second-year Mechanical Engineering lateral entry students participated enthusiastically. The course covered NDT fundamentals, inspection techniques, and detailed case studies.**

| Vel Tech | School of Mechanical and Construction | 11 |

Faculty Achievements

| Vel Tech | School of Mechanical and Construction | 12 |

Faculty Achievements - NPTEL

Faculty Achievements

Students Academic Achievements

The **TAFE Innovista 25 event, organized by Tractors and Farm Equipment Limited (TAFE)** in Chennai, successfully showcased cutting-edge engineering projects. The "Cable Suspended Farmland Monitoring System" was featured as a highlight of the innovation platform. The project team—Aravind J Nair, Thirishith J, Monish A R, Bharani Selvan S, and Viknesh L—presented their work with distinction.

The Department of Mechanical Engineering extends its heartiest congratulations to **Mr. I. Nagendran (VTU27011), a third-year student, for securing the First Prize in the "Thil-RA Karate-do Tamil Nadu, India"** open self-defense karate competition held on February 10, 2025, at Polivakkam, Chennai. His exceptional performance demonstrates not only his athletic prowess but also embodies the spirit of discipline and dedication that we value in our students.

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Thank You

| Vel Tech | School of Mechanical and Construction | 16 |

Human Resource Development Centre (HRDC)

49th Academic Council Meeting
24th May 2025

Presented By

Dr. P. Suresh
Dean – HRDC and International Relations
Professor – Electronics & Communication Engineering

Agenda

49.15 (e)	To record the progression and achievements with the one year strategic plan of the Human Resource Development Centre (HRDC)

The HRDC plays a pivotal role in enhancing teaching and non teaching faculty staff members capabilities through professional development programs, workshops, and training.

Activities and the Achievements in the
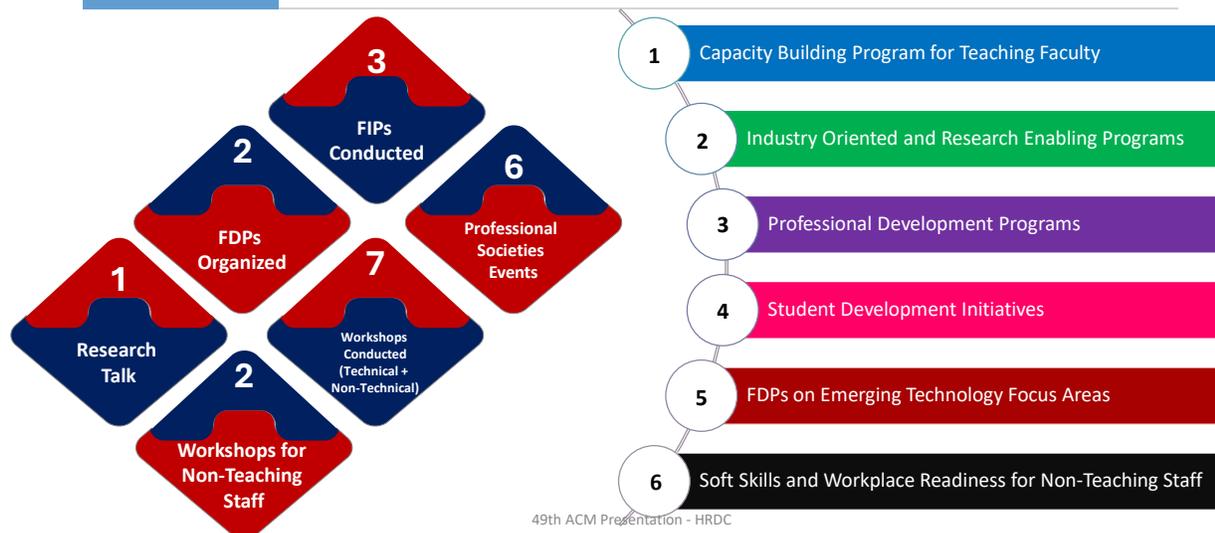## Academic Year 2024- 25

49th ACM Presentation - HRDC

3

Highlights of Events Organized for the
AY 2024-2025

3 FIPs Conducted	**1** Capacity Building Program for Teaching Faculty
2 FDPs Organized	**2** Industry Oriented and Research Enabling Programs
6 Professional Societies Events	**3** Professional Development Programs
1 Research Talk	**4** Student Development Initiatives
7 Workshops Conducted (Technical + Non-Technical)	**5** FDPs on Emerging Technology Focus Areas
2 Workshops for Non-Teaching Staff	**6** Soft Skills and Workplace Readiness for Non-Teaching Staff

49th ACM Presentation - HRDC

4

2

Capacity Building Programs organized during the A.Y. 2024-25

(Teaching and Non-Teaching Faculty Members)

S. No.	Event Details	Date
1	One week Faculty Induction Programme	10.06.2024 - 14.06.2024
2	One week FDP on **"NEP 2020 Awareness & Mastering E-Content Development: From Creation to Deployment"**	28.11.2024 - 03.12.2024
3	One day workshop on **"Frame by Frame – Video Editing Essentials for E-Content"**	08.10.2024
4	One week Faculty Induction Programme	04.11.2024 - 08.11.2024
5	IEEE CASS Industry Forum, **"Impacts of AI in VLSI Design, Modelling and Verification"**	18.10.2024
6	The IEEE Sensor Council Sponsored 5 Days Seasonal School	02.12.2024 – 06.12.2024
7	IEEE CASS Seasonal School sponsored event titled **"Integration of Research challenges in System-on-Chip (SoC) design for Brain-Machine Interfaces (BMIs)"**	09.12.2024 – 14.12.2024
8	One day workshop on **"Research and Innovation Ecosystem in Light of NEP 2020"**	04.01.2025
9	One day NTS workshop on **"Professional Communication & Soft Skills for Workplace Success"**	04.01.2025
10	IEEE SSIT workshop on **"Beyond Efficiency: The Latest Trends in Sustainable and Cost-Effective Solar Cell Solutions"**	06.01.2025
11	Research talk titled **"Artificial Intelligence in Cyber Security"**	09.01.2025
12	One day NTS workshop on **"Building Resilience & Fostering Team Harmony at Work"**	11.01.2025
13	Inauguration of the ISTE Faculty and Students Chapter	03.02.2025
14	One-day workshop on **"Optimizing Assessment and Evaluation for OBE Excellence"**	08.02.2025
15	IEEE Society on Social Implications of Technology (SSIT) Student Branch Chapter creative competition on **"ARTIVISM: Design That Speaks"**	28.02.2025
16	Revolutionizing Millimetre – Wave Communication through THz Photonics Integration	17.02.2025-22.02.2025
17	Workshop on **"Addressing POs through Curriculum"**	19.03.2025
18	One day workshop on **"Learning Digital Tools Towards Future Investigation"**	03.04.2025
19	One day workshop on **"The World of semiconductor and India's Quest"**	11.04.2025
20	One week workshop on **"Curriculum Design in the OBE Framework"**	30.04.2025
21	One week Faculty Induction Programme	05.05.2025 - 10.05.2025

49th ACM Presentation - HRDC

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One Week Faculty Induction Program

Inauguration of One week FIP
Valedictory Function Group Photo

49th ACM Presentation - HRDC

6

One week FDP on "NEP 2020 Awareness & Mastering E-Content Development: From Creation to Deployment"

1. Faculty gained a comprehensive understanding of NEP 2020 reforms, curriculum restructuring and policy vision.

2. Learned foundational skills for e-content creation, including interactive and multimedia-based digital learning materials.

3. Acquired knowledge of Generative AI tools for educational content development and deployment.

S. No	Department	No. of faculties Participated
1	Aero	
2	CSE	
3	BBA	
4	Biomedical	
5	Biotech	
6	Chemistry	
7	Civil	
8	Commerce	
9	ECE	
10	EEE	
11	English	
12	IT	
13	Law	
14	Maths	
15	MBA	
16	Mech	2
17	Media	2
18	Physics	2
Total		**56**

One day workshop on "Frame by Frame – Video Editing Essentials for E-Content"

		No. of Faculties

One Week Faculty Induction Program

IEEE CASS Industry Forum, "Impacts of AI in VLSI Design, Modelling and Verification"

Total Participants: 60

IEEE Sensor council sponsored 5 days seasonal school on "The Next-Gen Semiconductor Devices with collaboration of IoT enabled sensor technology for Industry 6.0"

S.No	Department	No. of Participants
1	ECE	61
2	Biomedical	2
Total		**63**

IEEE CASS Seasonal School on "Integration of Research challenges in system on chip (Soc) design for Brain-Machine Interfaces (BMIs)"

S. No	Department	No. of Participants
1	Biotech	1
2	Biomedical	3
3	CSE	5
4	ECE	37
5	IT	1
Total		**47**

One day workshop on "Research and Innovation Ecosystem in Light of NEP 2020"

Total Participants: 112

Highlights:

1. Enhanced faculty awareness of the key elements and goals of the National Education Policy (NEP) 2020 related to research and innovation.
2. Provided insights into the framework and objectives of the National Research Foundation (NRF) and its role in fostering a robust R&D ecosystem.

One day NTS workshop on "Professional Communication & Soft Skills for Workplace Success"

S. No	Department	No. of Non-Teaching Faculties
1	IT	1
2	CSE	19
3	Commerce	1
4	Biomedical	1
5	ECE	6
6	Mech	2
7	Civil	1
8	Media	2
9	Physics	1
10	Chemistry	1
11	English	2
12	DCC	1
13	Management	1
14	Aero	1
15	Biotechnology	2
16	EEE	2
Total		**44**

IEEE SSIT workshop on "Beyond Efficiency: The Latest Trends in Sustainable and Cost-Effective Solar Cell Solutions"

Total Participants 37

IEEE SSIT workshop on "Beyond Efficiency: The Latest Trends in Sustainable and Cost-Effective Solar Cell Solutions"

S. No	Department	No. of faculties
1	Biotech	7
2	CSE	78
3	ECE	54
4	IT	6
5	Maths	1
6	EEE	6
Total		**151**

One day NTS workshop on "Building Resilience & Fostering Team Harmony at Work"

S.No	Department	No. of Participants
1	IT	2
Total		**43**

49th ACM Presentation - HRDC   17

Inauguration of the ISTE Faculty and Students Chapter

Inauguration

Student Chapter

Office Bearers

Faculty Chapter

49th ACM Presentation - HRDC   18

9

One-day workshop on "Optimizing Assessment and Evaluation for OBE Excellence"

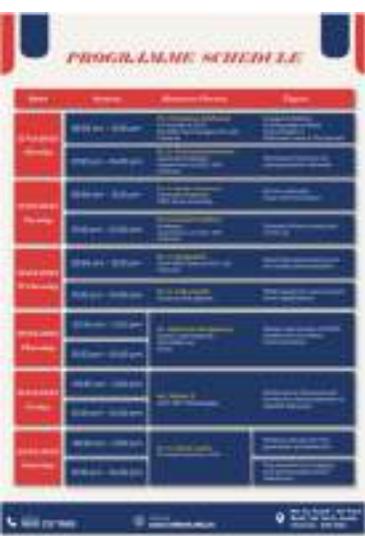| S. No	Department	No. of Faculty members
1	ECE	23
2	Dint	1
3	Mech	2
4	CSE	1
5	Commerce	1
6	Chemistry	1
7	Biomedical	1
Total		**30**

49th ACM Presentation - HRDC   19

IEEE Society on Social Implications of Technology (SSIT) Student Branch Chapter creative competition on "ARTIVISM: Design That Speaks"

49th ACM Presentation - HRDC   20

10

One Week FDP on "Revolutionizing Millimetre – Wave Communication through THz Photonics Integration"

S. No	Department	No. of Participants
1	Mech	1
2	Biomedical	1
3	EEE	1
4	Biotech	1
5	ECE	54
Total		**58**

Workshop on "Addressing POs through Curriculum"
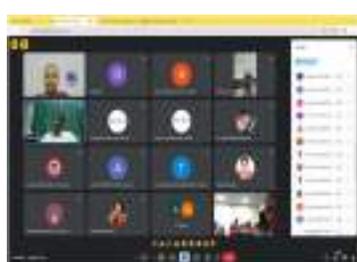
S. No	Department	No. of faculties participated
1	CSE	57
2	ECE	42
3	Civil	10
4	BME	7
Total		**116**

One day workshop on "Learning Digital Tools Towards Future Investigation"

Outcome:

1. The session provided hands-on knowledge of tools used for analysing digital Forensic.

2. Participants learned how to identify, extract, and interpret forensic data from computer systems.

49th ACM Presentation - HRDC   23

One day workshop on "The World of semiconductor and India's Quest"
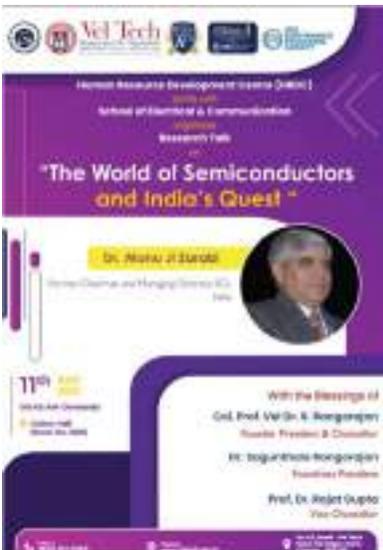
Inauguration

Total Participants 45

Group Photo with Expert

49th ACM Presentation - HRDC   24

One week workshop on "Curriculum Design in the OBE Framework"

Group Photo Inauguration

One week workshop on "Curriculum Design in the OBE Framework"

Valedictory Function
Group Photo

HRDC Academic Advisory Committee

S.No	Name	Designation	Role
1	Prof.Dr Rajat Gupta	Vice Chancellor	Chairman
2	Prof. Dr.Sriman Kumar Bhattacharyya	Vice Chancellor, Shiv Nadar University, Chennai	External Member
3	Prof. Dr.Rajive Mohan Pant	Vice Chancellor, Assam University, Silchar	External Member
4	Prof.Dr. Malaji Sushama	Director, UGC – HRDC, JNTU, Hyderabad	Member
5	Dr.R.Sivaraman	Pro Vice Chancellor (Administration)	Member
6	Dr.Raju Shanmugam	Dean - Academics	Member
7	Dr.P.Chandra Kunar	Dean – R&D, Ind Rel & TBI	Member
8	Dr.K.Jagajjanani Rao	Dean – Research Studies	Member
9	Dr.E.Kamalanaban	Principal - VTHT	External Member
10	Dr.P.Suresh	Dean HRDC	Member Secretary
11	Dr.E.Kannan	Registrar	Special Invitee
12	Mr.Sakthi Ajay	Finance Officer	Special Invitee

Events Proposed for the
Academic Year 2025 - 26

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Event Planner AY (2025 - 26)

Proposed Program for the AY 2025 - 26

S.No	Tentative Program List
1	FACULTY INDUCTION PROGRAMMES
2	Theme – Outcome Based Education
3	NEP 2020
4	Orientation Programmes and Skill Development Programs
5	Advanced level and more discipline oriented faculty development programs
6	E-content Development and Online Pedagogy
7	Theme – Learning Outcomes and Competencies
8	Leadership Development Programme
9	NEP 2020: Initiatives
10	NEP-2020 Topic: Multidisciplinary and Holistic Education
11	NEP-2020 on the theme "Research, Innovation and Ranking"
12	NEP-2020 on the theme "Integrated Higher Education System"
13	NEP-2020 on the theme "Technology Use and Integration"
14	NEP-2020 on the theme "Good Academic Research Practices/Academic Research Integrity"
15	NEP-2020 on the theme "Digital Governance"
16	NEP-2020 on the theme "Global Outreach of Higher Education"
17	NEP-2020 on the theme "Multiple Entry & Exit"
18	NEP-2020 on the theme "National Skills Qualifications Framework (NSQF)"
19	NEP-2020 on the theme "Implementation Plan: Outcome Based Education & Academic Bank of Credits"
20	NEP-2020 on the theme "Promotion of Indian Knowledge System"
21	NEP-2020 on the theme "Technology Enabled Teaching & Learning Process"
22	Lecture Series for Research Scholars
23	Lecture Series for Academic Administrators and faculties
24	Workshop for Non-Teaching Staff

Particulars	SS	WS
Workshop on NEP 2020	5	4
Workshop on OBE	4	5
Faculty Induction Program	1	1
Workshop for NTS	6	6
Total	16	16

Total No of Events:
32

Thank You
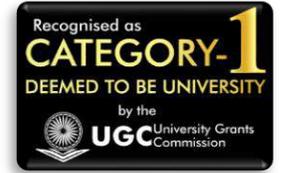
Office of Campus to Corporate
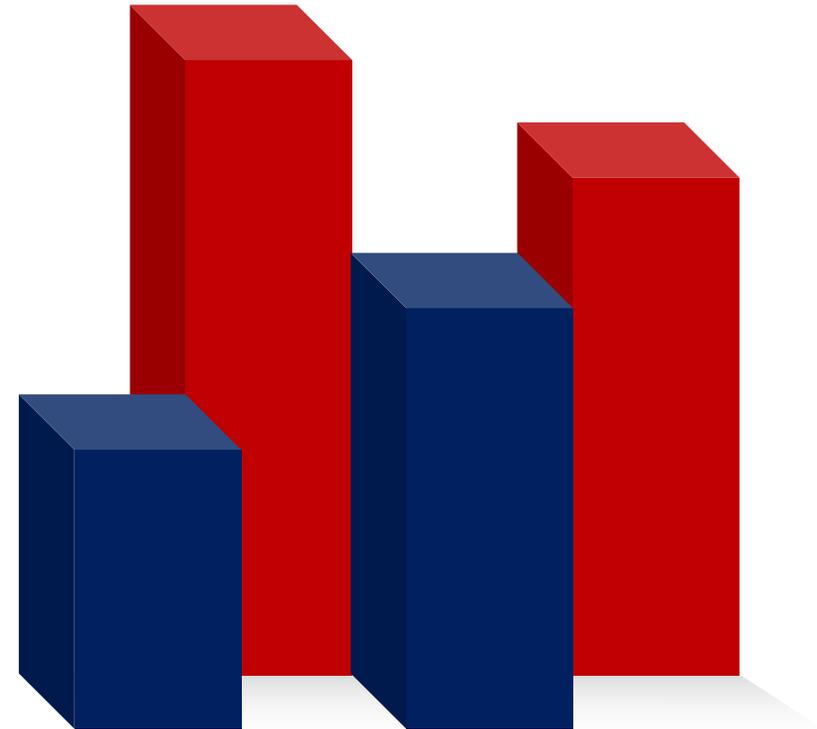
Placements - 2025 YOP

Career Choice	No. of students enrolled
Placements	2013
Higher Studies	332
Entrepreneurship	10
Others	714
Total	3069

B.Tech - Placements 2025 YOP

S No	Dept	Enrolled	Students placed	%
1	Aeronautical Engineering	11	9	81.81
2	Artificial Intelligence and Data Science	57	35	61.40
3	Artificial Intelligence and Machine Learning	54	29	53.70
4	Bio-Medical Engineering	4	2	50
5	Bio-Technology Engineering	11	7	63.63
6	Civil Engineering	8	8	100
7	Computer Science and Design	50	17	34
8	Computer Science and Engineering	828	431	52.05
9	Electronics and Communication Engineering	434	214	49.30
10	Electrical and Electronics Engineering	23	22	95.65
11	Information Technology	51	23	45.09
12	Mechanical Engineering	39	30	76.92
	Total	1572	827	52.54

M.Tech, MBA, Arts - Placements 2025 YOP

S No	Dept	Enrolled	Students placed	%
1	M.Tech	98	75	77
2	MBA	98	67	68
3	M.Sc	71	13	18
4	M.A	4	-	-
5	Arts (BBA & B.Com)	148	134	91
6	Media (B.Sc Viscom & Multimedia)	30	4	13
7	Law	5	4	80
	Total	463	297	64

Drives completed – 2025 YOP

S. No.	Company Name
1	ABS Fujitsu
2	Accenture
3	Access Healthcare
4	Adamsbridge
5	ADP India
6	Adrasti Technologies
7	Afford Medical Technologies
8	Agrilife
9	Airtel
10	Amadeus labs
11	Amazon
12	Amura Health
13	Analyzer CAE Solutions
14	Apzem
15	Artech Infosystem
16	Ascendion
17	AtoS
18	Bank Bazaar
19	Bank of America
20	B-Arm Medical
21	Belstar Microfinance
22	Berger Paints
23	Blackace Research
24	Blackstraw Technologies
25	BNP Paribas

S. No.	Company Name
26	BNY Mellon
27	Bosch
28	Bruhat Logistics
29	Capgemini
30	Ceasefire
31	CEI India
32	Cetas Information Technology
33	CGI
34	Chip Test
35	Cinkod Technologies
36	City Union Bank
37	CMR Green Technologies
38	Codeyoung
39	Cognizant
40	Concentrix
41	Conserve Solutions
42	Coronis Ajuba
43	Cushman & Wakefield
44	Cyfuture
45	Darttag
46	Datamark
47	DCB BANK
48	Dellner
49	Delloite
50	Deltax

S. No.	Company Name
51	Devrev
52	Dhanguard
53	Dots Designers
54	DRA Homes
55	e-con Systems
56	Edveon Technologies
57	eGrove Systems
58	embedUR Systems
59	Energy Flow
60	eNoah iSolution
61	EPIKInDiFi
62	FACE Prep
63	Firsthub Ecom
64	Firstsource
65	Flatirons
66	Flender
67	Fuso Glass
68	Gameskraft
69	Genpact
70	Hadrian Solutions
71	Haleon
72	Harmony Environmental Systems
73	HashedIn Technologies
74	HCL
75	HDB Financial Services

234

Drives

Drives completed – 2025 YOP

S. No.	Company Name
76	Hexaware
77	Heyram Infrastructure
78	Hinduja Tech
79	Hitachi Energy
80	Hyundai Mobis
81	Hyundai Motor
82	iamneo
83	ICICI Prudential Life
84	IdeaRX
85	Ignitarium
86	Illumine-i
87	IMEG
88	Incor Group
89	IndiaMART
90	Indus International FZC
91	Indus Valley
92	IndusInd Bank
93	Infinite Computer Solutions
94	Infosys
95	InPhase Power Technology
96	Intain Technologies
97	Intellipaat
98	ITK Education Services
99	IQ Back Office
100	Jain Housing

S. No.	Company Name
101	Johnson Electric
102	Joyalukkas
103	JPMorgan Chase
104	JSW
105	Jyothy labs
106	K7 Computing
107	Kaar Technologies
108	Kalvium
109	Kanini Software Solutions
110	Kirloskar Pneumatic
111	KLite Industries
112	Kotak Life
113	Kriyadocs
114	L&T Technology Services
115	lateetud
116	Lennox
117	Levarus
118	Like Minds Software
119	Logitech
120	Logorithm Semiconductor
121	LTIMindtree
122	Lumen
123	Ma Foi Strategic
124	Magnik India
125	Mastech Infotrellis

S. No.	Company Name
126	McKinley Rice
127	Megha Engineering & Infrastructures
128	Mehta HiTech
129	Microchip Technology
130	Micromax
131	Milekal Engineering
132	Misumi
133	Mitra S.K
134	Mitsogo
135	Motherson Electronic
136	Movate
137	Mphasis
138	Mu Sigma
139	MulticoreWare
140	Muthoot Group
141	Nakshatra Automation
142	NCC
143	New Street Technologies
144	Ninestars Information Technologies
145	NISSI Engineering
146	Niva Bupa
147	Northern Arc
148	Novac Technology
149	NPCI
150	O2 Saver

VEL TECH 6

Drives completed - 2025 YOP

S. No.	Company Name
151	o2h group
152	O2h technology
153	Ohms Tech Engineers
154	Omega Healthcare
155	OpenText
156	Parekh Integrated Services
157	Pascalcase
158	Petronash
159	Photon
160	Podcast Circle
161	Pon Pure Chemical
162	Poshmark
163	Prescience DS
164	Presidio
165	Prism RMC
166	Prochant India
167	Prodapt
168	Propel
169	Protechsoft
170	PwC
171	Qbotica
172	Razorpay
173	RDC Concrete
174	Remitbee
175	Renault Nissan Technology

S. No.	Company Name
176	Rialto
177	Roop Automotives
178	Safeexpress
179	Saint Gobain
180	Sanmar Group
181	Sasken
182	SBI Life
183	Schneider Electric
184	Schwing Stetter (Mech)
185	Securin
186	Shriram Chits
187	Shriram Properties
188	Site Galleria
189	SLB
190	Sobha Limited
191	Soft Suave
192	SopraSteria
193	SOTI
194	SPIC
195	Stradegi
196	SurveySparrow
197	Sutherland
198	Talview
199	TCS
200	Teceze

S. No.	Company Name
201	Tech Mahindra
202	Technologics Global Projects
203	Tellable
204	Tessolve Semiconductor
205	Thiran Technologies
206	Tiger Analytics
207	Tonik Bank
208	Torrent Gas
209	Trane Technologies
210	Trans Technology
211	TransCurators
212	TRIGO
213	Tringapps
214	Triyam
215	TrusTrace
216	Turing
217	TVS Next
218	Uno Minda
219	UST
220	Vestas
221	Vidvedaa PRG Aero and Ports Voyage
222	VisAI Labs
223	VNC Group
224	Vodafone Idea
225	W3Global

Drives completed – 2025 YOP

S. No.	Company Name
226	Welkinrim Technologies
227	WNS Global Services
228	Worley
229	WSP India
230	Yuzhan Technology
231	Zeilhoch
232	Zoho
233	[24]7.ai
234	10decoders

Ongoing drives - 2025 YOP

S. No.	Company Name
1	Adamsbridge
2	Ample Logic
3	Applus IDIADA Automotive Technology
4	Belstar Microfinance (Drive 2)
5	Berger Paints (Drive 2)
6	Cognizant (Arts)
7	Cognizant (Drive 2)
8	CX Data labs
9	Dellner (Drive 2)
10	Flow Control Commune
11	Gulf Asia Engineering and Project
12	Hindujatech
13	Knila IT Solutions
14	Kumaran Systems
15	Mahindra & Mahindra
16	Medtronic
17	Merit Data & Technology
18	mthree
19	Pollucare Engineers India
20	Purple Drive Technologies
21	Radware
22	Regami Solutions
23	Riverstone
24	S10 Healthcare solutions
25	Sansirong

S. No.	Company Name
26	Sopra Steria
27	Sopra Steria (Drive 2)
28	Tata Electronics
29	TCS (Drive 2)
30	TensorGo
31	Tescra Software
32	Vivnovation
33	Wipro
34	ZakApps
35	Zifo
36	Zoho

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Drives

Upcoming drives - 2025 YOP

S. No.	Company Name
1	Dun & Bradstreet
2	Firstsource (Drive 2)
3	FIS
4	Guvi
5	IARM information security
6	Multicoreware
7	Oben Electric
8	Recruit CRM
9	Safeexpress (Drive 2)
10	Sankar NP
11	Tecnicas Reunidas Engg
12	USAM Technology Solutions
13	Wyreflow Technologies
14	Zoho (Drive 2)

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Drives

Collaborations

Existing Collaborations

➢ **PTC** - To offer Windchill PLM training
➢ **Cognizant** - Digital Nurture 2.0 initiatives such as Salesforce, Temenos, Java, .NET, and Cybersecurity
➢ **Wipro** - To offer J2EE training
➢ **Virtusa** - Centre of Excellence for Java - Full-stack
➢ **Cognizant** - To offer an industry elective in the 5th semester
➢ **RapidData** - To offer Mendix low-code training
➢ **PwC**- To Offer Cybersecurity launchpad program
➢ **Accenture** - To offer Spanish & Italian language training
➢ **AtoS** - Introduced new Computer Science specializations programs.
➢ **PwC** - To Offer Cybersecurity training
➢ **Genpact** - Early Engagement Tech Skills
➢ **Tessolve** - To offer Embedded IoT & VLSI training

Recent Collaborations

➢ **Wipro** – To offer training on Salesforce.
➢ **Capgemini** – To offer training on Mainframes.
➢ **Tech Mahindra** - To offer training on Salesforces.
➢ **Movate** – To offer training on Cybersecurity and Digital Engineering Services.

D. Hemalatha
Assistant Professor
CSE
Stream: .NET

S. Kiruthiga
Assistant Professor
CSE
Stream: .NET

Dr. N. K. Manikandan
Assistant Professor (SG)
CSE
Stream: .NET

V. Charles Prabu
Assistant Professor
CSE
Stream: .NET

Dr. Karthika
Assistant Professor
CSE
Stream: Database Solution Expert

Dr. D. Umanandhini
Professor
CSE
Stream: Database Solution Expert

Hannah
Assistant Professor
CSE
Stream: Database Solution Expert

Dr. Kamaleshwar T
Associate Professor
CSE
Stream: Data Science

Dr. Rajiv S
Assistant Professor (SG)
CSE
Stream: Data Science

- Conduct a baseline skill assessment (aptitude, coding, and communication) starting from the second year.

- Offer courses in coding, domain-specific skills, and spoken English for all students from the second year.

- Implement intensified coding sessions for 30% of the total student population to enhance placement opportunities in IT product companies.

- Provide industry internship opportunities in the sixth semester, with the support of the Office of Industry Relations.

Thank you