



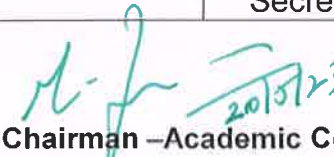
VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

Members of 10th Academic Council Meeting

Date:20.05.2023

Sl.No.	Name, Designation & Address	Category
1.	Dr. M. Jayaraman , Principal	Chairman
2.	Prof. A. Peer Mohamed , Former Professor, Department of Textile Technology, ACT Campus, Anna University, Chennai-25	University Nominees
	Dr. P. Kanagasabapathy , Professor Emeritus, Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai -44.	
	Dr. P. Narayanasamy , Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore - 04	
3.	Dr. V Prabhu Raja , Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore-04	Experts Nominated by Governing Council
	Dr. N. K. Karthikeyan , Professor, Department of Information Technology, Coimbatore Institute of Technology, Coimbatore	
	Mr. V. Viswanathan , Head - Engineering Recruitments, Wipro Technologies, Guindy, Chennai.	
	Thiru. K. Kulasekaran , Executive Director, Vellalar Educational Trust. Thindal, Erode-12.	
4.	Prof. P.Jayachandar – Dean Dr. K.R.Valluvan – Prof. / ECE & COE Dr. S.Velumani – Professor/Mech.	Senior Faculty of the Institution
5.	Dr. S.Mangai –Professor & Head / BME Dr. E.Ravi– Professor & Head / Civil Dr. S.Jabeen Begum – Professor & Head / CSE Dr. P.Sakthivel – Professor & Head / EEE Dr. M.Nisha Angeline – Professor & Head / ECE Dr. V.K.Manavalasundaram – Professor & Head / IT Dr. R.Kumaravelan – Professor & Head / Mech. Dr. V.Chandrasekaran – Professor & Head / MD Dr. T.Vetrivel – Professor & Head / MBA Dr. M.Eswaramurthi – Professor & Head / Mathematics Dr. DeepaJananakumar – Professor & Head / Physics Dr. K.Manikandan – Professor & Head / Chemistry Dr. S.Hemalatha – Professor & Head/ English	Heads of the Departments
6.	Dr. S.Mahendrakumar, Professor/ ECE & DCOE	Member Secretary


20/05/23
Chairman –Academic Council



**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University)**

**Minutes of the 10th Academic Council Meeting held at 10.30 a.m. on
Saturday, the 20th of May 2023.**

Venue : Board Room, VCET.

Chairperson : Dr. M.Jayaraman, Principal

University Nominees:

Prof. A.Peer Mohamed, Former Professor / Textile Technology, AU, Chennai.

Dr. P.Kanagasabapathy, Professor Emeritus/ Instrumentation Engineering, AU
Chennai.

Dr. P.Narayanasamy, Professor / EEE, PSGCT, Coimbatore.

Experts Nominated by Governing Council:

Dr.V Prabhu Raja, Professor / Mechanical Engg., PSGCT, Coimbatore.

Dr.N.K.Karthikeyan, Professor / IT, CIT, Coimbatore.

Mr. V.Viswanathan, Director- HR, Wipro Technology, Chennai.

Thiru. K.Kulasekaran, Executive Director, Velalar Educational Trust, Erode.

Senior Members of the Faculty:

Prof.P.Jayachandar- Dean

Dr.K.R.Valluvan – Prof. / ECE & COE

Dr.S.Velumani – Professor / Mech. Engg.

Members :

Dr.S.Mangai – Chairperson, Board of Studies, BME

Dr. E.Ravi – Chairperson, Board of Studies, Civil Engg.

Dr. S.Jabeen Begum – Chairperson, Board of Studies, CSE

Dr. M.Nisha Angeline – Chairperson, Board of Studies, ECE

Dr. P.Sakthivel – Chairperson, Board of Studies, EEE

Dr. R.Kumaravelan – Chairperson, Board of Studies, Mech. Engg.

Dr. V.Chandrasekaran – Chairperson, Board of Studies, Medical Electronics

Dr. V.K.Manavalasundaram – Chairperson, Board of Studies, IT

Dr. T.Vetrivel – Chairperson, Board of Studies, Dept. of Management Studies

Dr. M.Eswaramurthi – Chairperson, Board of Studies, S&H

Dr. Deepa Jananakumar – Professor & Coordinator / Physics

Dr. K.Manikandan – Professor & Coordinator /Chemistry

Dr. S.Hemalatha – Professor & Coordinator / English

Member Secretary :

Dr. S.Mahendrakumar, Professor/ ECE & DCOE

Minutes:

Dr. M.Jayaraman, Principal & Chairman, welcomed the members.

1. The list of members attended the 10th Academic Council Meeting meeting is enclosed in Annexure.
2. The meetings of the Boards of Studies for all the BE/BTech, MBA and ME Programmes were conducted on 11.05.2023, 12.05.2023, 13.05.2023 & 16.05.2023. The details, suggestions and / or modifications and ratifications put forth in various BoS were submitted to the Academic Council .
3. It was resolved to approve the amendments in Regulation R2018 Ver. 4 and introduction of the Minors / Honours and specialization in the curricula and syllabi for UG Programmes. This regulation is applicable for students admitted in the 1st year of AY 2021-22 and 2nd year (lateral entry) in the AY 22-23 ONLY.
4. It was resolved to approve the amendments in Regulation R2022 and introduction of the Minors / Honours and specialization in the curricula and syllabi. This regulation is applicable for students admitted from the 1st year of AY 2022-23 and 2nd year (lateral entry) in the AY 23-24.
5. It was resolved to approve the recommendations of the various Boards of Studies with regard to the curricula & syllabi for the UG & PG programmes as listed below.
 - a) From BoS - B.E Biomedical Engineering.
 - i. R2018 Version – 4 and R2022
 - Inclusion of Professional Elective courses verticals namely Healthcare Devices, Signal and Image Processing, Communication & Networks, Mechanics & Systems, Bio Engineering and Healthcare Management, open elective courses namely Biometric Systems and Their Applications, Healthcare Management Systems, Basics of Bioinformatics, Biology for Engineers, Regulatory Requirements in Pharmaceutical Industries, Rapid Prototyping, Radiotherapy Basics and Applications, Nanotechnology and Applications.
 - ii. R2018 Version – 4
 - Changes in Hospital Management, Medical Instrumentation, medical device design, Embedded Systems & IOT, Computer Vision, Medical Ethics and Standards, Biostatistics,
 - Removal of 8085 processor and inclusion ARM processor in microprocessor and microcontroller course offered in 5th semester.
 - Combining of Rapid Prototyping and Medical Device Design.
 - Inclusion of Built in Laboratory for Embedded System & IOT .
 - Inclusion of maintenance concepts in Troubleshooting course.
 - Addition of Augmented Reality with Virtual Reality in Medicine.
 - Inclusion of Body Area Networks, Healthcare Analytics, Bio-mimetics and Forensic Science in Healthcare courses as Professional Electives in the corresponding verticals.
 - Merger of ICU and Operation Theatre Equipment with Surgical Assist Devices.
 - Merger of Concepts of Radiological Imaging Technique with Radiological Equipment.

- Inclusion of Medical Therapeutic Equipment in Medical Instrumentation I and Medical Instrumentation II in 5th and 6th semester respectively.
 - Combining of Medical Instrumentation I and II Laboratories .
- b) From BoS - B.E Civil Engineering
- i. R2018 Version – 4
- Changes in 21CET53–Foundation Engineering, 21CET62 – Structural analysis II, 21CET72 – Estimation and Quantity surveying.
 - Inclusion of Vertical courses namely 1.Sustainable infrastructure Development, 2.Sustainable Agriculture and Environmental Management, 3. Sustainable Bio Materials, 4.Materials for Energy Sustainability, 5.Green Technology, 6. Environmental Quality Monitoring and Analysis, 7. Integrated Energy Planning for Sustainable Development, 8.Energy Efficiency for Sustainable Development
- c) From BoS - B.E Computer Science and Engineering
- i. R2018 Version – 4
- The course Automata Theory and Compiler Design offered in Semester VI must be offered as separate courses with 4 credits. Inclusion of Theory of Computation and “Compiler design” courses in subsequent semesters.
 - Removal of Microprocessor and Microcontroller and inclusion of Theory of Computation course in semester V.
 - Recommended to include courses such as R Programming, Java Fx / Java Spring, Data Visualization tools - Power BI / Tableau included as value added course.
 - Inclusion of verticals for electives namely Data Science, Artificial Intelligence and Machine Learning, Full Stack Development, Cloud Computing and Data Processing Technologies, Emerging Technologies, Networking and Cyber Security.
 - Inclusion of Minor Degree course verticals namely Business Data Analytics and Artificial Intelligence.
- ii. R2022
- Changes in 22CSC31- Foundations of Data Science course.
- d) From BoS - B.Tech AI & DS
- i. R2022
- Changes in Data Structures using Python course, Data Mining and Modeling course.
- e) From BoS - B.E – CSE (AI & ML)
- i. R2022
- Changes in the curriculum and Syllabus under R-2022.
- f) From BoS - B.E Electronics and Communication Engineering
- i. R2018 Version – 4
- Changes in curriculum and syllabus from 1st to 8th semesters under R2018 Version 4.
- ii. R2022
- Removal of 22ECT11 Semiconductor Devices in first semester and inclusion of 22ECT21 Electrical and Instrumentation.
 - Removal of 22ECT21 Electrical and Instrumentation” to second semester and inclusion of 22ECT11 Semiconductor Devices.

- Removal of 22PHT23 Physics for Electrical Sciences, 22PHL21 Physics and Chemistry Laboratory II” from second semester and inclusion of Programming in C and Programming in C Laboratory courses.
- Changes in 22ECT31 - Signals and Systems, 22ECT42 - Control Systems and 22ECT43 – Digital Signal Processing.
- The course “22ECT33 - Digital System Design” modified as “22ECT33 - Digital Electronics”.
- The combined course 22ECC41 Linear Integrated Circuits and applications is changed to theory course 22ECT44 Linear Integrated Circuits and applications.

g) From BoS - B.E Electrical and Electronics Engineering

i. R2018 Version – 4 and R 2022

- Inclusion of Professional Elective course verticals namely Power Engineering, Converters and Drives, Embedded System, Instrumentation Engineering, Electric Vehicle Technology and Diversified Courses.
- Inclusion of Open Elective courses namely Domestic and Industrial Electrical Installations, Renewable Energy Sources, Electric Vehicles, Energy Auditing and Conservation.

ii. R 2022

- Changes in Electromagnetic Theory, Transmission and Distribution.
- The laboratory components solving methods to be applied in experiments may be included in theory courses.
- It is recommended to define minimum of 5 COs for Laboratory courses.

h) From BoS - B.E Medical Electronics

i. R2018 Version – 4

- Inclusion of Medical Waste Management and Medical Device Design courses under the vertical Healthcare Management and Medical System Design respectively.
- Changes in Biostatistics, Speech and Audio Signal Processing.

ii. R2022

- Changes in curriculum of 1st to 8th semesters and syllabus of 3rd and 4th semester.
- Inclusion of C Programming theory and Laboratory course in semester-3.
- Inclusion of Signal processing in Healthcare course in Semester-4 as combined course.
- Inclusion of Radiological Equipment course in Semester-4.
- Inclusion of Healthcare Analytics course in Semester-6.
- Inclusion of professional Elective verticals courses namely Healthcare 4.0, Medical System Design, Innovation and Product Development, Healthcare Management, Signal and Image Processing, ICT for Healthcare.
- Inclusion of AI in Healthcare, ICU and OT Equipment, Medical Device Regulations, Cyber Security for Medical Systems, AI for Rare Diseases, BioSignal Processing, Cloud Computing for Healthcare Courses in the concerned verticals.
- Inclusion of open electives namely, Hospital Waste Management, Hospital Information System, IoT Applications in Healthcare.

i) From BoS - B.E Mechanical Engineering

i. R2018 Version – 4

- Change of the title of the sixth vertical (Diversified courses) as Inter / Multi-disciplinary courses.
- Offering of the course titled 'Design and Fabrication Project' in PSI category instead of PC.
- Inclusion of the Verticals for Honors courses namely Vertical 1: Design Engineering, Vertical 2: Manufacturing Engineering, Vertical 3: Industrial Engineering, Vertical 4: Industrial Management, Vertical 5: Thermal Engineering, Vertical 6: Inter / Multi-disciplinary courses.
- Inclusion of the Entrepreneurship Vertical for Minor Degree courses namely Foundations of Entrepreneurship, Team Building and Leadership Management for Business, Creativity and Innovation in Entrepreneurship, Principles of Marketing Management for Business, Human Resource Management for Entrepreneurs, Financing New Business Ventures.

ii. R2022

- Changes in 22MET31-Manufacturing Processes, 22MET44-Dynamics of Machinery and 22MEL42-Thermal Engineering Laboratory.

j) From BoS - B.Tech - IT

i. R2018 Version – 4

- Inclusion of Distributed Computing course in Semester-7
- Microprocessor and Microcontroller course is shifted from Semester-5 to Semester-6.
- Merger of the mandatory courses Professional Ethics & Universal Human Values-2 as "Human Values and Professional Ethics" in semester-7.
- Syllabi for the vertical named "Fintech and Block Chain" for minor degree course is approved as presented.
- Inclusion of professional elective verticals courses and minor degree course.
- Offering of MSME courses equivalence to open elective courses for the third and final year students.

k) From BoS - S & H

- Changes in Communicative English, Professional English, 22MAT31- Transform Techniques and Their Applications, 22MAT32 Transform Techniques and Random Processes, 22MAT33- Transform Techniques and Numerical Methods, 22MAT35- Differential Equations and Transforms, 22MAT41- Probability and Random Processes, 22MAT42- Optimization Techniques and Queueing Theory, 22MAT43 – Numerical Methods, 22MCT05 - Aptitude and Logical Reasoning, English for professionals and Communication Skills Laboratory.
- Offering of mathematics courses with selected topics from the courses previously offered in III and IV semesters in the Departments of ECE, EEE, MDE and MECH Programmes only in 3rd sem.
- Change of the title 22MAT32 Transform Techniques and Random Processes as 22MAT32 Transform Techniques and Probability Theory.
- Change of the title from Differential Equations and Computational Methods to Differential Equations and Scientific Computing.
- Changes in reference books of Heritage of Tamil and Tamils and Technology.

- Merger of the mandatory courses Professional Ethics & Universal Human Values-2 as "Human Values and Professional Ethics.
- l) From Dept. of Management Studies (MBA) -
- i. R2012
- Inclusion of new courses in each Elective in the Curriculum.
 - Introduction of NPTEL courses in the MBA programme.
 - Changes in 23MSE02 Product and Brand Management, 22MSE12- Talent Management and 22MSE12 - Financial Derivatives, 22MSE01 – Retail Marketing, 22MSE43- Logistics Management, 22MSE15 –Event Management, 22MSE10 – Banking and Financial Services, 22MSE62 Resort Planning and Development and 22MSE31 - Multi Media Technologies

6. The Council approved the Uniform Guidelines given by the Anna university for the following:

a) Award of letter grades and grade points as in the table :

Letter Grade	Grade Points*
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
U (Re-appearance)	0
SA (Shortage of Attendance)	0
W (Withdrawal)	0

b) The Relative Grading System is applied to **THEORY COURSES and THEORY AND PRACTICAL COMBINED COURSES**, if the number of students, who passed in an examination is **equal to or more than 30**. In this case, the total marks (CA + SE) obtained by all passed students, are fed into a Relative Grading Software, in the form of an .exe file, (downloaded from the Anna University website). After processing, this software determines the range of marks for each grade and assigns letter grades for the individual marks. Accordingly the mark range for each grade for each course may vary.

c) For **Theory exams with passed candidates less than 30, Practical Courses and Project Viva-Voce Exams**, Fixed Grading is with a mark range as given below is followed.

O	A+	A	B+	B	C	U
91 - 100	81 – 90	71 - 80	61 - 70	56 - 60	50 – 55	< 50

7. It is resolved to approve Two Professional Electives and one Open Elective to be offered from 5th semester to 7th semester.
8. It was resolved to approve the students to undergo Internship for 4 weeks – to obtain 2 credits in 8th semester. They can go for internship from 2nd semester onwards, accumulation of those will be considered in the 8th semester.
9. It is resolved to approve the Verticals for Minor degree and Honors degree for all the BE/BTech Programmes under R2018 Ver. 4 and R2022.

10. It is resolved to approve the Human Values and professional ethics offered in 7th semester with 3 credits under the category of Humanities and Social Science (HS).
11. It was resolved to approve the Minor Degree verticals namely Fintech and Block chain, Entrepreneurship, Public Administration, Business Data Analytics, Environmental and Sustainability & Artificial Intelligence.
12. It was resolved to approve the students admitted in the academic year 2021-22 Heritage of Tamils will be offered in second semester and Tamils & Technology will be offered in third semester and the course code to be changed as HS instead of MC.
13. It is resolved to approve that the Students can attend 3 Value-Added courses (each carries one credit) for the exemption of one Professional Elective course.
14. It is resolved to approve the Credit Transfer from NPTEL courses as per the Table below:

S.No	% Marks obtained in NPTEL	Equivalent Letter Grade awarded	Grade Point
1	80 to 100	O	10
2	70 to 79	A+	9
3	60 to 69	A	8
4	50 to 59	B+	7
5	46 to 49	B	6
	40 to 45	C	5
6	< 40	No Certificate by NPTEL; the course will not be considered for credit transfer	

15. It was resolved to approve the disposal of old Answer Scripts of the Students admitted in AY2016-17 & AY 2017-18.
16. The CoE thanked all the Members for their valuable suggestions.


 Chairman / Principal



VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to Anna University)

Thindal (PO), Erode – 638012.

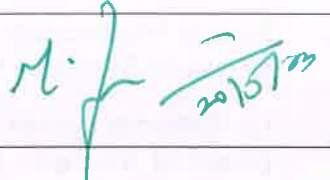

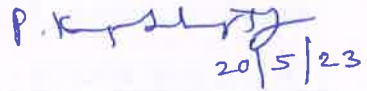
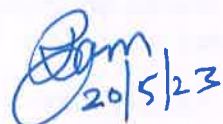
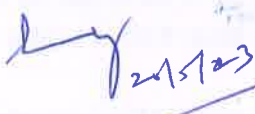
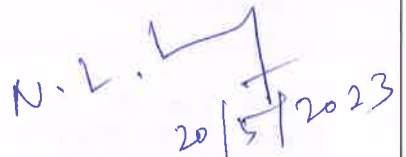

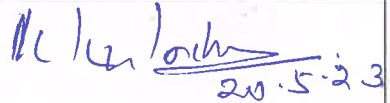
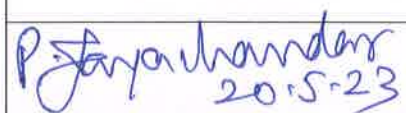
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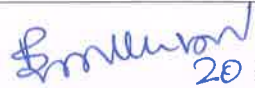
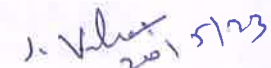
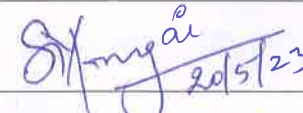
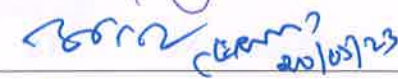



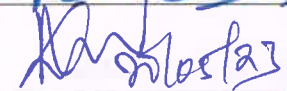

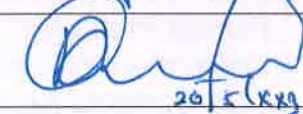
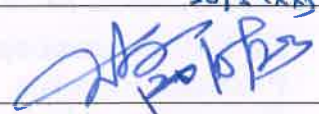
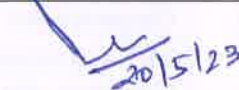
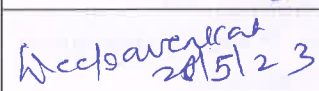
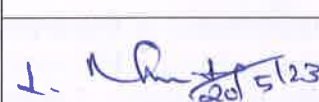
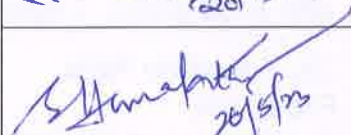
Academic Council Meeting – Attendance

Meeting No : 10

Date & Time : 20.05.2023 @ 10.00 AM

Venue : Board Room, VCET.

S.No.	Name of the Member	Category	Signature
1.	Dr. M.Jayaraman, Principal	Chairman	
2.	Prof. A.Peer Mohamed, Former Professor, Department of Textile Technology, ACT Campus, Anna University, Chennai-25	University Nominees	
3.	Dr. P.Kanagasabapathy, Professor Emeritus, Department of Instrumentation Engineering, MIT Campus, Anna University, Chennai -44.		
4.	Dr. P.Narayanasamy, Professor, Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore – 641 407.		
5.	Dr. V.Prabhu Raja, Professor, Department of Mechanical Engineering, PSG College of Technology, Coimbatore-04		
6.	Dr. N.K.Karthikeyan, Professor, Department of Information Technology, Coimbatore Institute of Technology, Coimbatore		
7.	Mr. V.Viswanathan Director - HR, Wipro Technologies, Chennai.	Experts Nominated by Governing Council	
8.	Thiru K.Kulasekaran Executive Director, Vellalar Educational Trust, Erode.		
9.	Prof.P.Jayachandar - Dean		

10.	Dr.K.R.Valluvan – Professor / ECE & COE		 20.05.23
11.	Dr.S.Velumani – Professor/Mech. Engg.		 20/5/23
12.	Dr.S.Mangai – Chairperson, Board of Studies- BME	Members	 20/5/23
13.	Dr.E.Ravi – Chairperson, Board of Studies - Civil Engineering.		 20/05/23
14.	Dr.S.Jabeen Begum – Chairperson, Board of Studies - CSE		 20/5/23
15.	Dr.P.Sakthivel – Chairperson, Board of Studies - EEE		 20/5/23
16.	Dr. M.Nisha Angeline – Chairperson, Board of Studies - ECE		 20/5/23
17.	Dr.V.K.Manavalasundaram – Chairperson, Board of Studies - IT		 20/5/23
18.	Dr.R.Kumaravelan – Chairperson, Board of Studies - Mechanical Engg.		 20/5/23
19.	Dr.V.Chandrasekaran, Chairperson, Board of Studies - Medical Electronics		 20/5/23
20.	Dr.T.Vetrivel - Chairperson, Board of Studies - MBA		 20/5/23
21.	Dr.M.Eswaramurthi – Chairperson, Board of Studies - Mathematics		 20/5/23
22.	Dr.DeepaJananakumar – Chairperson, Board of Studies - Physics		 20/5/23
23.	Dr. K.Manikandan – Chairperson, Board of Studies - Chemistry		 20/5/23
24.	Dr.S.Hemalatha – Chairperson, Board of Studies - English		 20/5/23
25.	Dr. S.Mahendrakumar, Professor/ ECE & DCOE		Member Secretary

Place : Thindal
Date : 20.05.2023


20/5/23
Chairman - Academic Council