KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution,

Affiliated to Anna University, Chennai)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C.Nagar, K.Vellakulam - 625 701.

(Near VIRUDHUNAGAR)

9th BOARD OF STUDIES MEETING MINUTES

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Department of Computer Science and Engineering

B.E Computer Science and Engineering

Ninth BoS Meeting Minutes

Date : 07.12.2024

Time : 10.30 a.m.

Venue : Comcast - Audio Visual Hub

The following members were present:

S.No.	Name of the Expert	Designation	Capacity	Signature
1	Dr.P. Chitra	Professor & Head, Department of Computer Science and Business Systems, Thiagarajar College of Engineering, Madurai.	Anna University Nominee	
2	Dr.G.R. Gangadharan	Professor Department of Computer Applications, National Institute of Technology, Tiruchirapalli - 620015.	Academic Council Nominee	
3	Dr.D. Jeya Mala	Professor, School of Computer Science Engineering, Vellore Institute of Technology, Chennai.	Academic Council Nominee	
4	Dr.R. Anandha Murugan	Chief Technology Officer, Pruvity HR Solutions Private Limited Anna Nagar, Madurai.	Industrial Expert	
5	Mr.S. Venkatesh	Device Solution Engineer, Exxonmobil, Bengaluru.	Alumni	Absent

Internal Faculty Members of BoS			
Sl.No.	**Name of the Faculty**	**Designation**	**Signature**
1	DR.A. Meenakshi	Professor and Head	
2	Dr.R. Ramya	Associate Professor / CSE UG (B.E. CSE) Programme Coordinator	
3	Dr.A. Anandh	Associate Professor / CSE UG (B.E CSE) Programme Coordinator	
4	Dr.G. Nirmala	Assistant Professor / CSE	
5	Dr.G. Uma Maheshwari	Assistant Professor / CSE	
6	Mr.V. Rajesh Kannan	Assistant Professor / CSE	
7	Mrs.S. Athilakshmi	Assistant Professor / CSE	
8	Mr.B. Muthukrishnavinayagam	Assistant Professor / CSE	
9	Mrs.K. Muthulakshmi	Assistant Professor / CSE	
10	Mr.G. Praveen Kumar	Assistant Professor / CSE	
11	Mr.J. John Livingston	Assistant Professor / CSE	
12	Mrs.X. Ignatius Selvarani	Assistant Professor / CSE	
13	Mrs.E. Vijayalakshmi	Assistant Professor / CSE	
14	Ms.S. Janani	Assistant Professor / CSE	
15	Mr.D. Raj	Assistant Professor / CSE	
16	Mr.R. Kumaravel	Assistant Professor / CSE	
17	Mrs.D. Pradhiba	Assistant Professor / CSE	
18	Mr.D. Asir	Assistant Professor / CSE	
19	Mrs.K. Leelarani	Assistant Professor / CSE	
20	Mrs.K. Priyadharshini	Assistant Professor / CSE	
21	Mrs.T. Divya	Assistant Professor / CSE	
22	Mrs.M. Mohana	Assistant Professor / CSE	
23	Mrs.S. Archana Devi	Assistant Professor / CSE	
24	Mrs.G. RohiniPriya	Assistant Professor / CSE	

009.01.00 : Welcome address by HoD

Dr.A.Meenakshi, HoD, Department of Computer Science and Engineering welcomed all the members of the Board of Studies and Faculty members of CSE Department to the 9th BOS meeting.

009.02.00 : Approval for Curriculum of R2025

Semester	**Suggestions by BOS members**
I	Engineering Graphics is not necessary for CSE and it can be replaced by any of the following subjects such as Design Thinking, Engineering Economics, Microprocessor and Micro Controller.
II	• As per the syllabus content, Physics for Information Science can be renamed to Electronics for Information science. • Biology and Environmental Science for Engineers can be renamed to Environmental Engineering or Environmental Science. • Recommended the removal of the Engineering Practices Laboratory and proposed introducing a laboratory for Digital Design.
III	• Knowledge of Probability and Statistics is needed for learning Foundations of Data Science and Machine Learning, so it can be moved to 3rd semester and Discrete Mathematics can be moved to 4th semester. • Agile Software Development and Foundations of Data Science and Machine Learning can be moved to fourth semester. • Internet of Things should be moved to fourth semester.
IV	Computer Organization and Architecture, Operating System and Database Essentials can be moved to third semester.
V	Networking Essentials should be learned before Internet of Things and can be moved to the 3rd semester.
VI	The members suggested to give MongoDB as one unit in Cloud computing or else it can be provided as certification course.
VII	• As many of the students will go for internship, Classical and Modern Cryptography is heavier in 7th semester. So, it can be moved to 6th semester if possible. • Classical and Modern Cryptography can be renamed as Cryptography techniques. • MongoDB can be added in Certification course under Skill Development courses.
Professional Elective Courses: Verticals	• The following name changes can be made in the Elective Courses a. Startup Initiatives → Entrepreneurship development Initiatives b. Image Analytics and Computer Vision → Computer Vision c. Springboot Framework →Design patterns using Springboot Framework d. Flutter → Application development using Flutter e. Mixed Reality → Extended Reality • UNIX internals can be given for any other application equivalent or Linux specific paper. MLOPs can be replaced by IoT analytics.
General Suggestion	Review any important R2021 papers that may have been overlooked and consider including them in R2025.

009.03.00: RATIFICATION FOR COURSE EQUIVALENCE FOR TRANSFER STUDENT

The following student got transfer and admitted in V semester during the academic year 2024-2025. The details of the student are,

Student Name	**Aravindha Mani R**
Transfer from	Vaigai College of Engineering, affiliated to Anna University, Chennai, followed R2021 and completed Semester IV
Semester joined	V
Curriculum to be followed	KCET - R2021

Recommendations for additional courses to be done

The following additional courses are to be done by the transfer student to gain course equivalence.

Sl. No	Semester	Course registration	Course Code	Course Name
1	I	Semester V	GE2101	Principles of Engineering
2			MA2102	Mathematics Laboratory
3	II		MA2151	Vector Calculus Complex Integration and Laplace Transforms
4	III	Semester VI	AUD105	Developing your personality (Audit Course)
5			MA2201	Linear Algebra and Boundary Value Problems
6	IV		CS2253	Software Engineering with UML Design
7			GE2201	Design Thinking
8			GE2251	Quantitative Aptitude
9			CS2255	Mobile Application Development Laboratory
10			AUD101	Constitution of India (Audit Course)

The following courses are to be exempted as he had studied earlier.

Sl. No	Semester	Sub Code & Sub Name	Credit
1	V	CS2303 - Machine Learning Techniques	3
2	VI	CS2351 - Theory of Computation and Compiler Design	3

009.04.00 : Any Other Matters

Curriculum feedback to be collected to identify the knowledge gaps between R2021 and R2025.

009.05.00 : Vote of Thanks

The meeting ended with the Vote of Thanks by HOD Dr.A.Meenakshi, Professor, Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordinators
(Dr.R.Ramya Dr.A.Anandh)

BoS Chairman
(Dr.A.Meenakshi)
HoD-CSE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

9th Bos Meeting Minutes

Date : 07.12.2024

Time : 2.00 PM to 4.00 PM

The Following members were present:

S. No	Name of the Experts	Designation	Capacity	Signature
1.	Dr.E.S.Gopi, Ph.D.,	Professor / ECE, National Institute of Technology, Tiruchirappalli - 620015.	Anna University Nominee	
2.	Dr.M.Sabarimalai Manikandan Ph.D.,	Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Palakkad, Ahalia Integrated Campus,Kozhippara P. O-678557, Palakkad, Kerala,	Academic Council Nominee	
3.	Dr.A.Kannammal, Ph.D.,	Associate Professor/ ECE PSG College of Technology, Avinashi Rd, Peelamedu - 641004, Coimbatore, Tamil Nadu.	Academic Council Nominee	(ONLINE)
4.	Mr.M.Chinnathambi, M.E.,	Technical Lead, Viasat India, Global Infocity, Module 1&2,5th Floor, Block C, No.40, MGR Salai, Perungudi- 600 097, Chennai.	Industrial Expert	
5.	Ms.A.Anto Amala, M.E.,	Associate Staff Engineer, Samsung Semiconductor India Research,Laxmi Sagar Layout, Mahadevapura, Bengaluru,Karnataka – 560048	Alumni	NOT ATTENDED

6.	Dr.R.Suresh Babu	Professor & Head/ ECE Dean Academic Courses Kamaraj College of Engineering &Technology	
7.	Dr.T.Pandiselvi	Associate Professor / ECE Kamaraj College of Engineering &Technology	
8.	Dr.N.M.Mary Sindhuja	Associate Professor / ECE Kamaraj College of Engineering &Technology	
9.	Dr.T.Prathiba	Associate Professor / ECE Kamaraj College of Engineering &Technology	
10.	Dr.S.Nisha Rani	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
11.	Mrs.C.Nagavani	Assistant Professor / ECE Kamaraj College of Engineering &Technology	Leave
12.	Mr.R.Ashok	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
13.	Mr.P.Aravind	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
14.	Mr.S.Alwyn Rajiv	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
15.	Mrs.P.Muthumari	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
16.	Mrs.P.Ramalakshmi	Assistant Professor / ECE Kamaraj College of Engineering &Technology	
17.	Mr.R.Rajprabu	Assistant Professor / ECE Kamaraj College of Engineering &Technology	Leave

009.01.00 : Welcome address by HoD

- Welcome address

009.02.00 : Approval of 8th BoS Meeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 8th BoS Meeting	Action Taken
1.	**Embedded C Programming, testing and development:** Dr.A.Kannammal, Ph.D., suggested that overview of Embedded systems may be replaced with review of programming. Dr.A.Kannammal, Ph.D., suggested that, decide this course will be offered to either third year or final year. Mr.M.Chinnathambi suggested that evaluate this course by GCC compiler , it is available as open source.	➢ Centre for Excellence with Pantech e-learning pvt ltd, Chennai and received 12 IoT kits worth of 4 lakhs. Students training may be given with these real time projects. Recently, conducted workshop for the students from various departments. ➢ These Courses are not introduced in R2021 curriculum. But, Alumni students are handling these courses as additional. • Abishga, Poorna Devi, Rajeswari, and Vignesh Jeyanthan from M/s Tessolve Semiconductor Pvt Ltd, Bangalore • Palpandi from M/s Samsung Semiconductor India Research, Bangalore • Johnson from M/s Micro chip Technologies, Bangalore handled SoC Design ➢ Negotiation is going on with Entuple Technologies, Bangalore for purchasing CADENCE software. Bought 20 computer systems exclusively for this.
2.	**VLSI Design:** Dr.A.Kannammal, Ph.D., suggested that subject title need to be changed because students studied VLSI design subject. Mr.M.Chinnathambi suggested that cadence tool is enough to evaluate this course. Dr.A.Kannammal, Ph.D., and Mr.M.Chinnathambi suggested that the course name is changed to RF based VLSI design for mobile chip set.	

➢ BoS members approved the action taken in 8th BoS Meeting Minutes.

009.03.00 : Discussion and approval of the following items.

009.03.01 : Proposed Curriculum for I to VIII semester and Syllabi for I and II Semester

I Semester

Name of the Course	Suggestions from BoS members
English for Professional Development - I (Theory Cum Practical)	Approved the course and syllabus
Calculus and its applications	Approved the course and syllabus
Engineering Physics	Approved the course and syllabus
Engineering Chemistry	Approved the course and syllabus
Engineering Graphics	Approved the course and syllabus
Problem Solving techniques using C	Approved the syllabus. Dr.E.S.Gopi Ph.D., insisted that the Course name may be allied with the Advanced C Programming course in II semester.
Heritage of Tamils	Approved the course and syllabus
Basic Sciences Laboratory	Approved the course and syllabus
Problem Solving Techniques using C Laboratory	Approved the syllabus. Dr.E.S.Gopi Ph.D., insisted that the Course name may be allied with the Advanced C Programming laboratory course in II semester. Members appreciated 3 subjects for C programming may improve the programming skill and placement of students.

II Semester

Name of the Course	Suggestions from BoS members
English for Professional Development - II	Approved the course and syllabus
Linear Algebra and complex integration	Approved the course and syllabus
Physics for Electrical and Electronics Engineering	Dr.E.S.Gopi Ph.D., and Dr.M.Sabarimalai Manikandan Ph.D., insisted that the content of the course is redundant with Electronic Devices course. They also suggested replacing the course with Basic Engineering course which may include Electrical, Civil and Mechanical Engineering contents.
Biology and Environmental Science for Engineers	Approved the course and syllabus
Electronic Devices	Approved the course and syllabus
Advanced C Programming	Approved the syllabus. All the BoS members compared the syllabus of Problem Solving Techniques using C in I semester with this course.

	Mr.M.Chinnathambi, M.E accepted that the syllabus is different in both the courses. Dr.E.S.Gopi Ph.D., insisted that both courses may be framed as a single syllabus and split in to I and II for the two semesters. Dr.M.Sabarimalai Manikandan Ph.D., course name may be changed as Advanced Programming. It may be C/C++/Python
Engineering Practices Laboratory	Approved the course and syllabus
Advanced C Programming laboratory	Approved the syllabus. All the BoS members suggested changing the course name.

III Semester

Name of the Course	Suggestions from BoS members
Data Structure using C	Dr.M.Sabarimalai Manikandan Ph.D., suggested to include Operating system. They changed the course name as Operating Systems and Data structure using C. Object Oriented Programming concepts may be included.
Digital Electronics and System Design	Approved the course
Signals and Systems	Approved the course
Electronic Circuits I	Approved the course
Circuit Analysis	Approved the course
Control Systems Engineering	Approved the course
Electronic Circuits and Circuit Analysis laboratory	Approved the course
Digital System Design laboratory	Approved the course

IV Semester

Name of the Course	Suggestions from BoS members
Probability and Random Processes	Approved the course
Linear Integrated Circuits	Approved the course
Electromagnetic Field Theory	Approved the course
Discrete Time Signal Processing	Approved the course
Communication Theory	Approved the course
Electronic Circuits II	Approved the course
Soft skills	Approved the course
Linear Integrated Circuits laboratory	Approved the course
Digital Signal Processing laboratory	Approved the course

V Semester

Name of the Course	Suggestions from BoS members
Digital Communication	Dr.E.S.Gopi Ph.D., and Dr.M.Sabarimalai Manikandan Ph.D., suggested that while framing syllabus for Communication Theory course and Digital Communication course, Information Theory, Coding Theory and Detection & Estimation must be included in either of the courses.
Transmission Lines and RF systems	Approved the course
VLSI Design	Approved the course
Professional Elective -I	Approved the course
Open Elective - I	Approved the course
Microprocessors and Microcontrollers	Approved the course
Aptitude	Approved the course
Communication Systems laboratory	Approved the course
VLSI laboratory	Approved the course

VI Semester

Name of the Course	Suggestions from BoS members
Wireless Communication	Approved the course
Computer Networks	Approved the course
Professional Elective -II	Approved the course
Professional Elective - III	Approved the course
Open Elective - II	Approved the course
Embedded Systems	Approved the course
Wireless Communication laboratory	Approved the course
Computer Networks laboratory	Approved the course
Microprocessor and Embedded laboratory	Approved the course

VII Semester

Name of the Course	Suggestions from BoS members
Antennas & Microwave Engineering	Approved the course
Internet of Things	Dr.M.Sabarimalai Manikandan Ph.D., suggested that the course may be moved to professional elective. Instead, Artificial Intelligence & Machine Learning course may be included.
Professional Elective -IV	Approved the course

Professional Elective - V	Approved the course
Management Elective	Approved the course
Open Elective – III	Approved the course
Internet of Things laboratory	Dr.M.Sabarimalai Manikandan Ph.D., suggested instead of this laboratory course, Artificial Intelligence & Machine Learning using Python laboratory course may be included.
Antenna & Microwave Engineering laboratory	Approved the course

VIII Semester

Name of the Course	Suggestions from BoS members
Project Work	Approved the course

- Dr. E. S. Gopi, Ph.D., insisted that in all the laboratories, last 3 to 4 experiments may be combined to make it as mini project.
- BoS members approved all the professional elective courses listed below.

Communication Systems	Signal Processing	VLSI	RF & Communication Networks
Cognitive Radio	Digital Image Processing	Digital VLSI Design and Technology	Defence Electronics (RADAR, EW & HPM)
Satellite Communication	Multimedia Compression Techniques	Analog VLSI Design	Electromagnetic Interference and Compatibility
5G/6G Communication	Artificial Intelligence and Machine Learning	Low power VLSI design	Ad hoc and Wireless Sensor Networks
Underwater Vehicles and Communication	Deep Learning and Computer Vision	SoC Design and Verification	Network Security
Optical Communication	Biomedical Signal Processing	Semiconductor Test Engineering	Introduction to HMI

009.03.03 : Transfer student - Addition & Exemption of courses

- The student A.Nivedhita (Reg. No. 910623103077) who had originally joined B.E Electronics and Communication Engineering under Anna University Regulations 2020 at KLN college of Engineering affiliated to Anna University, Chennai got transferred to Kamaraj College of Engineering & Technology, in the 3rd semester under Regulations 2021 during the academic year 2024 – 2025.
- The student has to do the following additional/exemption of courses in the academic year 2024-2025 to fulfill the R2021 Kamaraj College of Engineering and Technology – Electronics and Communication curriculum.

Sl. No	Semester	Course Code	Course Name	Addition/ Exemption from regular courses
1.	I	GE2101	Principles of Engineering	Addition
2.		EM2101	Coding Techniques – I	Addition
3.		MA2102	Mathematics Laboratory	Addition
4.	II	PH2151	Physics of Non – Conventional Energy Sources	Addition
5.		GE2152	Environment Science Engineering	Addition
6.	III	EC2205	Circuit Analysis	Exemption
7.		EC2206	Electronic Devices	Exemption
8.		EC2208	Circuits and Devices laboratory	Exemption

- Requisition for approval has been sent to The Director Academics, Anna University, Chennai.
- BoS members approved the course equivalence for the transfer student Ms. Nivedhita A (current Reg. No. 920423106701)

009.04.00 : Items for Ratification

009.04.01 : Changes or Corrections in the existing Curriculum of R2021

Course Code/ Course Name	Offered to	Request for ratification	Suggestion
OEC781/ IoT Concepts and Applications	EEE, Mechanical, Civil, Mechatronics and BT	Change from Theory cum Lab to Theory	All the BoS members ratified the change in the academic year 2024-2025.

009.04.02 : Value Added Courses offered - ratification required

The following are the value added courses conducted for the III year ECE students in the academic year 2024-2025.

S. No.	Course Name	Resource Person	Participants	Date

1.	Data Science	Mr. Thanigaivel, Project Engineer, Pantech E Learning, Chennai	29 III ECE students	09.09.2024 to 13.09.2024
2.	VLSI Design Verification and Simulation	Mr.Kalyanasundaram , Physical Design Engineer, RVSiiT, Thoothukudi	32 III ECE students	09.09.2024 to 13.09.2024

- BoS members ratified the value added courses conducted.

009.05.00: Reporting Items

Item No.	Description	Reported to BoS Members
009.05.01	Pass Percentage of students	The HOD Presented the Pass percentage yearwise and course wise for the academic year 2023-2024 (Even). I ECE A – pass percentage – 70% I ECE B – pass percentage – 84.48% II ECE - Pass percentage -79.03% III ECE - Pass percentage – 96.67% IV Year- Pass percentage – 100%
009.05.02	Student Internship Completion details	The HOD shared the statistical data of the student internship/ Inplant training details for R2021 All the 62 Students of current III year ECE (R2021) have completed
009.05.03	Value Added Courses offered / Planned for the academic year 2024 – 2025 even	The HOD Presented the Value added course planned for II year students for the academic year 2024-2025 even. 1. Integrated Full stack web development with IoT Networks 2. IoT Applications using Node MCU and Raspberry Pi 3. Machine Learning using Python
009.05.04	Department achievements between 8th and 9th BoS	HoD happily shared the department, student and faculty achievements with the BoS members. • 26 students got placement out of 60 students in current final year. • Got Centre of Excellence with Pantech e-learning pvt ltd, Chennai. • Students achievements during April 2024 to December 2024 are summarized as follows.

Students Achievements (Winners)	Count
Project presentation	11
Paper presentation	14
Conferences	3
Quizzes	2
NPTEL	9
Extra-Curricular	19

- Faculty achievements during April 2024 to December 2024 are summarized as follows.

Achievements	Count
Funded Project applied	12
Funded Projects sanctioned	2
Journal Publication	4
Conference	9
Design Patent filed	3
Design patent granted	2
Utility patent granted	1
Copyright Submitted	1
Book/ Book Chapter	2
Industrial Visit	8
FDP attended	23
Resource person	6
Reviewer	7
Online Certification (NPTEL, SWAYAM)	7
No. of events organized	21

- BoS members appreciated the faculty and students contributions.

009.06.00 : Any other Items

- Next BoS Meeting is tentatively scheduled on April 2025.

009.07.00 : Vote of Thanks

- The meeting ended with the Vote of Thanks by Dr.S.Nisha Rani, Assistant Professor, Department of Electronics and Communication Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

9/12/2024 9/12/24

BoS Coordinators
Dr.S.Nisha Rani & Mrs.P.Muthumari

R.S — 9/12/24

BoS Chairman
Dr.R.Suresh Babu
HoD / ECE

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Department of Information Technology

Ninth BoS Meeting Minutes

Date : 07.12.2024

Time : 02:00 p.m.

Link : https://tinyurl.com/4tv2d72t

The following members were present:

S.No.	Name of the Expert	Designation	Capacity	Signature
1	Dr. P. Chithra	Professor & Head, Department of Computer Applications, Thiagarajar College of Engineering, Madurai	Anna University Nominee	P. Chithra
2	Dr. Rajeswari Sridhar	Professor, Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli – 620015	Academic Council Nominee	7/12/24
3	Dr. S. Sankari	Professor Department of Information Technology Sri Sai Ram Engineering College, West Tambaram, Chennai.	Academic Council Nominee	Online
4	Mr. E. Hari Prasath	Subject Matter Expert, L & T ltd., Coimbatore.	Industrial Expert	Online
5	Mr. P. Venkatesh	Managing Director Cloudb Software Solutions Private Limited, Virudhunagar.	Alumni	P.V.

Internal Faculty Members of BoS			
S.No.	**Name of the Faculty**	**Designation**	**Signature**
1.	Dr. E. Vakaimalar	Associate Professor & Head	E. Vakaimalar
2.	Dr. R. Muthuselvi	Professor	R. Muthuselvi
3.	Dr. R. Arthy	Assistant Professor	4/12/25
4.	Dr. S. Akila Rajini	Assistant Professor	
5.	Dr. D. Vendhan	Assistant Professor	Online
6.	Ms. V. Deepa Priya	Assistant Professor	Sabatical Leave
7.	Mr. C. Rajkannan	Assistant Professor	
8.	Mr. G. H. Ram Ganesh	Assistant Professor	
9.	Ms. P. Mahalakshmi	Assistant Professor	
10.	Ms. P. Priyadharshini	Assistant Professor	
11.	Ms. S. Gayathri	Assistant Professor	
12.	Ms. V. Gayathri	Assistant Professor	
13.	Ms. R. Saranya Priyadharshini	Assistant Professor	
14.	Ms. G. Nivetha	Assistant Professor	
15.	Ms. B. Sivagangadharani	Assistant Professor	
16.	Ms. K. Gayathri	Assistant Professor	

009.01.00 : Welcome address by HoD

- Dr. E. Vakaimalar, Associate Professor and Head welcomed the Board of Studies members.

009.02.00 : Discussion of R2025 first year curriculum structure and syllabus

Semester	Points Discussed
1	➢ BoS members approved English for Professional Development – I, Calculus and its applications, Problem Solving Techniques using Python, and Problem Solving Techniques using Python Laboratory courses. ➢ Dr. Rajeswari Sridhar suggested having 2 credits for Engineering Physics and Engineering Chemistry. ➢ Dr. P. Chithra advised to rethink the exclusion of Engineering Graphics and Basic Science Laboratory courses.
2	➢ BoS members approved English for Professional Development – II, Linear Algebra and complex integration, Programming in C and Programming in C laboratory. ➢ Members also approved the syllabus of Programming in C and Programming in C Laboratory courses.

	➢ Dr. Rajeswari Sridhar suggested having Physics for Information Science in semester I and removing the physics course in semester II. ➢ Dr. Rajeswari Sridhar and Dr. P. Chitra advised to remove Biology component from Biology and Environmental Science for Engineers course. ➢ Dr. Rajeswari Sridhar advised to increase the number of contact hours from 2 to 3 hours in Digital System Design course. She also guided to have theory and lab component separately. ➢ Dr. P. Chitra advised to rethink the exclusion of Engineering Practice Laboratory.

009.03.00 : Additional comments of R2025 first year curriculum structure and syllabus

Item	Points Discussed
009.03.01	➢ BoS members suggested having less than 24 credits for semester I and semester II.
009.03.02	➢ Dr. P. Chitra advised to rename the course name of Advanced C Programming as Expertise in C / Extended C and revise the syllabus based on the target audience.

009.04.00 : Discussion of R2025 curriculum structure – Semester 3 to Semester 8

Semester	Points Discussed
3	➢ Dr. Rajeswari Sridhar suggested moving Principles of Compiler Design course to higher semesters. ➢ BoS members recommended having mini project development as one of the exercise in the laboratory courses and remove Engineering Clinic I lab course.
4	➢ Dr. Rajeswari Sridhar pointed out that Digital System Design course is in semester II hence moving Computer Organization and Architecture to semester III would be more appropriate.
5	➢ Dr. Rajeswari Sridhar recommended moving Algorithm Design and Analysis course from Semester V to semester IV and include Principles of Compiler Design course in Semester V. ➢ Dr. P. Chitra advised to rename Web Programming course as Web Technology so that the syllabus can focus to various technologies.
6	➢ BoS members suggested having Mobile Application Development Laboratory as Lab integrated Theory course (L-1, T-0, P-4, C-3).
7	➢ Dr. Rajeswari Sridhar advised to rethink the exclusion of Cloud Computing Laboratory.
8	➢ BoS members approved the curriculum structure of semester VIII.

009.05.00: General points

Item No.	Comments from the BoS Members
009.05.01	➢ BoS members advised to have total credit not exceeding 165. ➢ They also suggest to have total credits common among CSE, IT and ADS.
009.05.02	➢ Dr. Rajeswari Sridhar and Dr. P. Chitra suggested having 6 professional electives and 2 open electives.
009.05.03	➢ Dr. Rajeswari Sridhar advised to rename the Emerging Technology Course (ETSC) as Software Core and list at-least two courses for each semester. ➢ She suggested listing the courses that provide opportunity for the jobs related to Database Admin / IT Admin role.
009.05.04	➢ Mr. E. Hari Prasad advised to rethink in providing Programming in C course during semester I and Problem Solving Techniques using Python course during semester II.
009.05.05	➢ Dr. Rajeswari Sridhar recommended including Microprocessor and Microcontroller, Embedded Systems courses.
009.05.06	➢ BoS members suggested giving courses like Internet of Things, Machine Learning, Agile Methodologies as core courses instead of giving it under Emerging Technology Course.

009.07.00 : Vote of Thanks

➢ The meeting ended with the Vote of Thanks by Dr. E. Vakaimalar, Head/IT.

12/12/24 12/12/24

BoS Coordinator
(Dr. R. Arthy & Ms. P. Mahalakshmi)

E. Vakaimalar 12/12/24.

BoS Chairman
(Dr. E. Vakaimalar)
HoD / IT

KAMARAJ®
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA, New Delhi)

MINUTES OF THE BOARD OF STUDIES MEETING

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(Accredited by NBA, New Delhi)

DATE: 07-12-2024 **TIME: 10.30 am to 12.30 pm**

VENUE: Smart Class (EEE Department)

ATTENDANCE:

S. No.	Name of the Expert	Designation	Capacity	Signature
1.	Dr.K.Selvi	Professor, EEE Thiagarajar College of Engineering, Madurai.	Anna University Nominee	
2.	Dr.S.Senthil Kumar	Associate Professor, EEE National Institute of Technology, Tiruchirappalli.	Academic Council Nominee	
3.	Dr.S.Albert Alexander	Associate Professor, School of Electrical Engineering, Department of Energy and Power Electronics, VIT, Vellore.	Academic Council Nominee	online
4.	Mr.S.Sivakumar	Project Manager, M/S Green Solar Technology, Madurai.	Industrial Expert	
5.	Mrs.S.Swathika	Associate Engineer, Randstad Technology, Caterpillar India Private Limited.	Alumni	online.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S. No.	Name of the Faculty	Designation	Signature
1.	Dr. D. Prince Winston	Professor & Head / EEE Chairman, Board of Studies	
2.	Dr. B. Gurukarthik Babu	Associate Professor / EEE	
3.	Dr. A. Rajavel	Assistant Professor / EEE	
4.	Dr. G. Sakthivel	Assistant Professor / EEE	
5.	Mrs.J.Uma Maheswari	Assistant Professor / EEE	
6.	Mr. R.Ganesan	Assistant Professor / EEE	
7.	Mr. T. Hari Prasath	Assistant Professor / EEE	

009.01.00 : Welcome address by HoD

- Dr.D.Prince Winston, Professor and Head, Department of Electrical and Electronics Engineering welcomed the BoS Members.

009.02.00 : Department Achievements

- Dr.D.Prince Winston presented the achievements of the Department and highlighted the facilities and infrastructure of the Department.

009.03.00 : Students and Faculty Members Achievements

- Dr.D.Prince Winston presented the various achievements of the Students and Faculty Members.

Item No.	Description	Reported to BoS Members
009.03.01	Pass Percentage of students	The HOD Presented the Pass percentage - year wise and course wise for the academic year 2023-2024 (Even). I EEE – Pass percentage - 56% II EEE - Pass percentage - 91% III EEE - Pass percentage - 90% IV EEE-Pass percentage - 100%

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

<table>
<tr><td>009.03.02</td><td>Student Internship Completion details</td><td>The HOD shared the statistical data of the student internship/ Inplant training details for R2021-80 EEE Students undergone internship during 2023-24.</td></tr>
<tr><td>009.03.03</td><td>Value Added Courses offered</td><td>The HOD Presented the Value added course “IoT and its Applications” offered by Quantanics Tech Serv Pvt Ltd to II year students for the academic year 2023– 2024.</td></tr>
<tr><td>009.03.04</td><td>Department achievements between 8th and 9th BoS</td><td>HoD happily shared the department, student and faculty achievements with the BoS members.
• 19 students got placement out of 30 students in current final year.
• Got Centre of Excellence with Pantech e-learning pvt ltd, Chennai.
• Students achievements during April 2024 to December 2024 are summarized as follows.
<table>
<tr><th>Students Achievements</th><th>Count</th></tr>
<tr><td>Project Presentation</td><td>26</td></tr>
<tr><td>Paper Presentation</td><td>22</td></tr>
<tr><td>Conferences</td><td>20</td></tr>
<tr><td>Certification course</td><td>10</td></tr>
<tr><td>Journal Publication</td><td>2</td></tr>
<tr><td>Extra Curricular</td><td>7</td></tr>
</table>
• Faculty achievements during April 2024 to December 2024 are summarized as follows.
<table>
<tr><th>Achievements.</th><th>Count</th></tr>
<tr><td>Ongoing Funded Projects</td><td>8</td></tr>
<tr><td>Journal Publication</td><td>25</td></tr>
<tr><td>PhD completed-Research Centre</td><td>4</td></tr>
</table></td></tr>
</table>

		Conference 7 Design patent granted 1 Utility patent granted 1 Copy right granted 1 Book Chapter 5 FDP attended 7 Resource Person 7 Reviewer 5 NPTEL Certification 3 No of events organized 12 • BoS members appreciated the faculty and students contributions.

009.04.00 : Approval of 8th BoS Meeting Minutes & Action taken

Name of the Course	Suggestions from BoS members	Action Taken
One credit course	The members suggested to include the text book titled Operation and Maintenance of Electrical Equipment by B V S Rao for the course Operation and Maintenance of Electrical Equipment.	The book suggested by the members are included as text book in the syllabus.
Over & above credits	The members suggested to handle the courses by the experts from the industry	Value added courses are handled by the industrial experts. The students have undergone internship at industry.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

- The BoS Members approved the Minutes of 8th BoS meeting held on 06.04.2024 and the action taken.

009.05.00 : Proposed R2025 UG Curriculum for I to VIII semester and Syllabi for I and II Semester

Dr.D.Prince Winston presented the R2025 UG Curriculum, B.E. - Electrical and Electronics Engineering for the following.

SEMESTER I

Name of the Course	Suggestions from BoS members
English for Professional Development - I (Theory Cum Practical)	Approved the course and syllabus
Calculus and its applications	The committee members suggested not to mention the term applications in the course title. Applications related to calculus may be given separately in Unit-V.
Engineering Physics	Approved the course and syllabus
Engineering Chemistry	Approved the course and syllabus
Engineering Graphics	Credit allotted to the course may be reduced to 2. Allocate those credits to professional core courses.
Problem Solving techniques using C	Approved the course and syllabus. However they suggested to offer course in second year focusing on lateral entry students.
Heritage of Tamils	Approved the course and syllabus.
Basic Sciences Laboratory	Approved the course and syllabus.
Problem Solving Techniques using C Laboratory	Approved the course and syllabus. However they suggested to offer course in second year focusing on lateral entry students.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER II

Name of the Course	Suggestions from BoS members
English for Professional Development - II	Approved the course and syllabus.
Advanced Calculus and Laplace Transforms	The committee members suggested not to mention the term advanced in the course title and give alternate title to the course.
Physics for Electrical and Electronics Engineering	Approved the course and syllabus.
Biology and Environmental Science for Engineers	Approved the course and syllabus.
Circuit Theory	The committee members suggested to change the course title as Electric Circuit Analysis and few topics could be minimized without comprising GATE syllabus and few topics related to Electromagnetic field theory course may be included.
Advanced C Programming	The committee members suggested not to mention the term advanced in the course title and Data structure concepts may be included.
Engineering Practices Laboratory	The committee members suggested to give introduction to measuring instruments and MCB and recommended to give the overview of protective devices at first.
Advanced C Programming laboratory	All the BoS members suggested to change the course name and recommended to include data structure concepts.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER III

Name of the Course	Suggestions from BoS members
Design Thinking (Common to All)	The committee members suggested to include the design tools in the syllabus.
Transforms and Boundary value problems	The committee members suggested that course title seems to be confined to boundary value problems and it may be altered.
DC Machines and Transformers	The committee members suggested to include the few topics related to Electromagnetic field theory course.
Electromagnetic field Theory	This course may be removed and topics covered in this course may be added in Electric circuit theory and DC Machines and Transformers.
Analog Electronics and Linear Integrated Circuits	The committee members suggested to offer Electronics Devices and Circuits and Linear Integrated Circuits as a separate theory and laboratory courses.
Electric Wiring and Cost Estimation	The committee members suggested focusing to offer professional core courses and recommended to include Emerging Technology content in appropriate professional core courses.
PCB Design Lab	The committee members suggested that instead of offering Skill Development Course separately, it could be offered along with appropriate professional core lab courses. So that, more number of professional core courses could be accommodated

	and make the students strong in core engineering.
DC Machines and Transformers Lab	Approved the course.
Engineering Clinic – I	Approved the course and suggested to allot one credit.

SEMESTER IV

Name of the Course	Suggestions from BoS members
Probability, Statistics and Numerical Methods	Approved the course.
Digital Electronics	Approved the course.
Induction and Synchronous Machines	All the BoS members suggested to change the course name as AC Machines.
Generation, Transmission and Distribution	Approved the course.
PLC Automation	The committee members suggested to offer the course in higher semester.
PLC Automation Lab	The committee members suggested to offer the course in higher semester.
Digital Electronics Lab	Approved the course.
Induction and Synchronous Machines Lab	All the BoS members suggested to change the course name as AC Machines laboratory.
Engineering Clinic – II	Approved the course and suggested either allot one credit or it could be incorporated as one of the lab exercises in regular laboratory.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER V

Name of the Course	Suggestions from BoS members
Power Electronics	Approved the course.
Microprocessors and Microcontrollers	Approved the course.
Professional Elective -I	Approved the course.
Professional Elective -II	Approved the course.
Open Elective - I	Approved the course.
Electrical Safety	The committee members suggested to include fire safety topics and could be offered as TCP
Safety Engineering Lab	Approved the course.The committee members recommended that it could be offered as TCP
Power Electronics Lab	Approved the course.
Microprocessors and Microcontrollers Lab	Approved the course.
Industrial Internship / International certification	Approved the course.

SEMESTER VI

Name of the Course	Suggestions from BoS members
Control Systems	The committee members suggested to offer the course as TCP in lower semester.
Professional Elective -III	Approved the course.
Professional Elective -IV	Approved the course.
Professional Elective -V	Approved the course.
Open Elective - II	Approved the course.

ML for Electrical Engineers/Data Structures and Algorithms	Approved the course.
ECAD/ Data Structures and Algorithms Lab	Approved the course.
Control Systems Lab	The committee members suggested to offer the course as TCP in lower semester.
Power System Simulation Lab	Approved the course.
Capstone Design Project	Approved the course.

SEMESTER VII

Name of the Course	Suggestions from BoS members
Renewable Energy Systems	The committee members suggested that it could be offered as Professional elective.
Power System Operation and Control	The committee members suggested that it could be offered as Professional elective.
Management Elective	Approved the course.
Open Elective - III	Approved the course.
AI for Electric Vehicles	Approved the course.
Startup Initiatives- Common Course	Approved the course.
Renewable Energy Systems Lab	Approved the course.
Industrial Internship (Mandatory)	Approved the course.
Artificial Intelligence & Machine Learning Lab	Approved the course.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SEMESTER VIII

Name of the Course	Suggestions from BoS members
Project Work	Approved the course.

- BoS members suggested to rework the entire curriculum and also they suggested to arrange the professional elective courses listed below as Power Engineering, Digital Systems, E Vehicles and suggested to move the Power System Analysis, Protection and Switch Gear as professional core course.

VERTICAL I	VERTICAL II	VERTICAL III	VERTICAL IV
Digital Signal Processing	Utilization and Conservation of Electrical Energy	Special Electrical Machines	Distributed Generation and Microgrid
VLSI Design	Solar Photovoltaic System	Solid State Drives	Smart Grid Technologies
Measurements and Instrumentation	Wind Energy Conversion System	Design of Electrical Machines	Power Quality
Embedded Systems	Protection and Switch Gear	Hybrid Electric Vehicle	High Voltage Engineering
Medical Electronics	Energy Storage Technologies	Power System Analysis	FACTS Devices

009.06.00 : R2025 PG Curriculum and Syllabus Discussion

SEMESTER I

Name of the Course	Suggestions from BoS members
Applied Mathematics for Power System Engineers	The committee members suggested that it could be offered as Professional elective.
Advanced Power System Operation and Control	The committee members suggested that it could be offered as Professional elective.
Computer Aided Power System Analysis – (Theory)	Approved the course.
Electromagnetic Transients in Power Systems	Approved the course.
System Theory	Approved the course.
Professional Elective I	Approved the course.
Advanced Power System Simulation Laboratory	Approved the course.

SEMESTER II

Name of the Course	Suggestions from BoS members
Advanced Power System Protection	Approved the course.
Extra High Voltage AC and DC Transmission	Approved the course.
Power System Deregulation	Approved the course.
Power System Dynamics	The committee members suggested that it could be offered as Power System Dynamics and Stability.
Professional Elective II	Approved the course.
Professional Elective III	Approved the course.
Technical Paper Writing and Patent Filing	Approved the course.

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SEMESTER III

Name of the Course	Suggestions from BoS members
Professional Elective IV	Approved the course.
Professional Elective V	Approved the course.
Open Elective I*	Approved the course.
Project Work Phase I	Approved the course.

* Industry Certification Courses (for promoting Interdisciplinary)

SEMESTER IV

Name of the Course	Suggestions from BoS members
Project Work Phase II	Approved the course.

VERTICAL I	VERTICAL II	VERTICAL III	VERTICAL IV	VERTICAL V
Computer Aided Design of Electrical Apparatus	AI Techniques for Power Systems	Electromagnetic Field Computation and Modeling	Application of Power Electronics in Power Systems	Power System Voltage Stability
Industrial Power System Analysis and Design	Solar and Energy Storage System	Power Quality Assessment and Mitigation	Control and Protection of Microgrid	Distributed Generation and Microgrid
Nano Materials and Applications of High Voltage Engineering	Electric Vehicles and Power Management	Power System Optimization	Design of Substations	Smart Grid Technologies
Power System Planning and Reliability	Energy Management and Auditing	Power System State Estimation	Electrical Safety & Hazard Management	IoT for Power Engineers
Research Methodology	SCADA and DCS	Wind Energy Conversion Systems	Energy Efficient Building Management Systems	Optimization Techniques to Power System Engineering

009.07.00 : Any other Items

- Suggested to frame the professional courses and syllabus with the reference to GATE syllabus.
- Suggested to focus more towards professional core courses.
- Next BoS Meeting is tentatively scheduled on April 2025.
- NPTEL certification course may be given as over and above credits.

009.08.00 : Vote of Thanks

The meeting ended with the vote of thanks by Mrs.J.Uma Maheswari, Assistant Professor, Department of Electrical and Electronics Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS In-charge

HoD/EEE

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Department of Biotechnology

Minutes of the Ninth BoS Meeting

Date : 30-11-2024

Time : 10.00 AM to 1.00 PM

Venue : Smart class B4

The following members were present:

S.No.	Name of the Expert	Designation	Capacity
1	Dr.S. Venkatesan	Professor & Head, Department of Petrochemical Technology, Bharathidasan Institute Of Technology (BIT) Campus, Tiruchirappalli- 620 024	Anna University Nominee
2	Dr. P.Suresh Kumar	Professor &Head, Department Of Biotechnology, University College Of Engineering, Bharathidasan Institute Of Technology Campus, Tiruchirappalli	Academic Council Nominee
3	Dr.R.Balakrishnaraja	Associate Professor and Head, Department Of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam	Academic Council Nominee
4	Mr. S. Seshan	Management Representative, The Peninsular Exports Company, Virudhunagar	Industrial Expert
5	Dr. Ilanila IP *(joined online)*	Assistant Professor National Institute of Technology Calicut, NIT Campus – Calicut	Alumni

Internal Faculty Members of BoS			
S.No.	**Name of the Faculty**	**Designation**	**Signature**
1	Dr. R. Shyam Kumar	Professor and Head	
2	Dr. R. Baskaran	Associate Professor	
3	Dr. K. Geetha	Associate Professor	
4	Dr. S. Karthikumar	Associate Professor	
5	Dr. D. Pradiba	Assistant Professor	
6	Er. R. Amutha Lakshmi	Assistant Professor	
7	Er. Karl Joseph Samuel	Assistant Professor	
8	Er. A.Ganga	Assistant Professor	

009.01.00 : Welcome address by HoD

- Dr. R. Shyam Kumar, Professor & Head, Department of Biotechnology welcomed all the Board of Studies members and the faculty members of the department for the BoS meeting. He discussed about the progress of the institution and Department.
- Dr. K. Geetha, Associate Professor, disseminated the Vision and Mission statements of the Institution and the Department to the BoS members.
- She also disseminated the Program Specific Outcome (PSO) statements of the programme to the members and enquired whether any changes are required in the PSO statements
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to reframe the PSO statements in line with sustainable development goals. The opined that the given statements are very generic and conceptually overlapping, hence suggested to work on it.

009.02.00 : Approval of 8th BoS Meeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 8th BoS Meeting	Action Taken
008.03.01	One credit subjects for R2021 curriculum were presented for approval to the BoS members and members approved the same. Dr.P.Suresh Kumar suggested to introduce the course "Artificial Intelligence in Computational Drug Design", as it is an emerging field.	The suggestions provided by the experts were taken and changes were appropriately forwarded to Dean Academic Courses for final consideration.

008.04.01	The BoS members approved and ratified proposed changes or Corrections in the existing Curriculum of R2020 and R2021.	The suggestions provided by the experts were taken, however, the changes were not included in the R2021 curriculum. As a new curriculum is being framed (R2025) changes will be considered and promptly incorporated in the new syllabi.

- All the BoS members approved the minutes of the 8th BoS meeting

009.03.00 : Discussion and approval of

- Dr. D. Pradiba, BoS Co-ordinator, explained about the development of R2025 curriculum. In this connection, she presented the feedback on the current curriculum (R2021) obtained from various stakeholders including alumni, faculty and students.
- She also conveyed that an Industry Committee meeting was held on 16/11/2024 at the department with two industry representatives to obtain industry inputs to the framing of the new curriculum.
- She presented a comparison of credit distribution in the previous (R2020), current (R2021) and proposed (R2025) curriculum with respect to the subject categories
- Dr. P. Suresh Kumar, Academic council nominee enquired whether 170 credit is acceptable in Academic Council and suggested to get a concurrence. He conveyed that only 165 credits are recommended by Anna University.
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to frame R 2025 curriculum with a higher percentage of self-learning courses.

009.03.01 : Curriculum Framework R2025- UG programme

- Dr. D. Pradiba presented the Curriculum Framework R2025- UG programme.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to merge Problem solving Techniques course with Programming in C language course. He insisted to offer Python Programming course in Semester 01 instead of Programming in C. In semester 02, he suggested to offer a course related to artificial intelligence
- Dr. P. Suresh Kumar, Academic Council Nominee insisted to include Biology and Environmental science for Engineers as mandatory course for all departments except biotechnology.

- Dr. S. Venkatesan, Anna University Nominee suggested to include Python Programming course in curriculum instead of Programming in C in Semester 02.
- Dr.S. Venkatesan, Anna University Nominee suggested to include basic mathematics for real time applications, units and unit conversions in 'Problem solving Techniques' course and opined that it could be offered as a skill development course for Biotechnology programme.
- Dr. P. Suresh Kumar suggested to include Bioorganic chemistry course in Semester 02. He also suggested to include Bioorganic chemistry lab. He insisted to make Bio organic chemistry and Environment science and Sustainability course as mandatory papers. He also appreciated the inclusion of two Tamil courses in Semesters 01 and 02.
- Dr.R.Balakrishnaraja, Academic Council Nominee enquired about the Problem solving techniques' syllabus. Er. Karl Joseph Samuel explained the syllabus of the course.
- Dr Pradiba D presented the framework of Semester 03 to 08 which was extensively reviewed by the experts.
- After due deliberations the experts were convinced with the framework of semesters 05 through 08. However the following suggestions were made in Semesters 03 and 04
- Dr. P. Suresh Kumar, Academic Council Nominee insisted to include more chemical Engineering related courses in order to differentiate between the B.Tech and BSc Biotechnology programmes
- In Semester 03, Dr. S. Venkatesan, Anna University Nominee suggested to rename Thermodynamics' course as 'Chemical and Bio thermodynamics.
- Dr. P. Suresh Kumar suggested to include Biochemistry instead of Stoichiometry in Semester 03 and include some components of bioorganic chemistry lab in Biochemistry lab.
- Dr.S. Venkatesan, Anna University Nominee suggested to include stoichiometry in Semester 03 and thermodynamics in Semester 04.
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to include Principles of Chemical engineering course.
- Dr. P. Suresh Kumar, Academic Council Nominee, suggested to remove "CADD" from 'Bioinformatics' and include it separately into verticals if needed.
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to include yet another chemical engineering paper apart from Enzyme and Bioprocess principles
- Dr. I.P. Ilanila, Alumni Representative suggested to include Immunology course in third year itself since they are eligible to write GATE exam. Dr. P. Suresh Kumar, Academic Council Nominee contradicted the suggestion and justified that is well placed

- Dr. P. Suresh Kumar, Academic Council Nominee suggested to shift Analytical Techniques Course to Semester 04 and include Microbiology course in Semester 03.
- Dr.S. Venkatesan, Anna University Nominee recommended to include Skill development course and emerging technology courses from 4th Semester instead of 3rd Semester.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to rename 'Downstream Processing' (DSP) course to 'Downstream processing and product development' and also to include applications of DSP in 5th Unit.
- Dr.S. Venkatesan, Anna University Nominee suggested to rename Transport Phenomena course as 'Fluid and solid operations' and include the principles of chemical engineering considering chemical process flow.
- He also suggested to keep the framework of the curriculum in fluid state to accommodate the forthcoming Anna University curriculum framework.

009.03.02 : Courses to be offered under 'Emerging Technology'

- Dr Pradiba D, BoS coordinator presented the course titles to be offered under Emerging Technology.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to rename Biosimilars course as 'Biopharmaceuticals and Biosimilars'
- All the members accepted the course titles and approved the same.

009.03.03 : Courses to be offered under 'Skill development course'

- Dr D Pradiba, BoS coordinator presented the course titles to be offered under 'Skill development course'
- Dr. P. Suresh Kumar, Academic Council Nominee, suggested to include Entrepreneurship and startup in Semester 07 and Dr. K. Geetha clarified the same saying that it covers only basics of Enterpreneurship and startup.
- Dr. P. Suresh Kumar, Academic Council Nominee enquired about the syllabus of Cell culture lab techniques and Dr. D. Pradiba clarified it.
- All the members accepted the course titles and approved the same.

009.03.04 : Verticals to be offered under 'Professional elective'

- Dr. P. Suresh Kumar, Academic Council Nominee suggested to include Industrial enzymology paper in Vertical I and Basic Industrial BT as core paper in Semester 4 instead of Enzyme technology paper.
- Dr. P. Suresh Kumar, Academic Council Nominee opined that there is no need of honours with specialization for Biotechnology programme, since it will narrow down the job opportunities of Biotechnologists, which was accepted by all the members.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to include 'Plant genetic engineering and Biotechnology' instead of 'Plant tissue and transformation techniques' in Vertical II.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to change title as changes in Agriculture productivity and crop improvement instead of just Crop Improvement.
- Mr. S. Seshan, Industry nominee, suggested to include GLP and GMP / Pathogenesis in Food industry in the Vertical II.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to reframe Food Process Engineering and Preservation course title and include the inputs of Mr. S. Seshan, Industry nominee.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to rename 'Lifestyle diseases' to 'Lifestyle diseases and disorders'.
- He also suggested to include IPR course in Vertical I and reframe the title as Metabolic Engineering and IPR. GLP and GMP should be included was the unanimous suggestion
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to include Process validation and Quality Control paper in Vertical I
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to rename Nanobiotechnology course as Bionanotechnogy
- Dr. P. Suresh Kumar, Academic Council Nominee suggested to rename Molecular pathogenesis as Molecular pathogenesis and Drug discovery.
- Dr. P. Suresh Kumar, Academic Council asked to reframe Environmental Biotechnology course title to Sustainable technologies and Circular economy.
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested to reframe the course title Tissue Engineering to Biomaterials and tissue engineering,
- Dr. Ilanila, Alumni Representative suggested to include additive manufacturing and 3D bioprinting in suitable verticals. BoS coordinator explained that these topic will be covered in Tissue Engineering course. She accepted the same.

- Dr.S. Venkatesan, Anna University Nominee suggested to include Biosafety and Bioethics course in Vertical I. Instead of Algal technology, Marine Biotechnology can be included in Vertical II
- Dr.R.Balakrishnaraja, Academic Council Nominee insisted that, addition to Bioreactor equipment and design paper, process equipment design and scale up process can be included.
- Dr.R.Balakrishnaraja, Academic Council Nominee suggested the addition of Functional foods and nutraceuticals course in Vertical II.

009.03.05 : Open electives (To be offered to other branch students)

- Dr Pradiba D presented the courses to be offered as open electives. All the members accepted the course titles.

009.03.06 : Syllabus of Department Specific Course in Semester 02.

- Dr Pradiba D presented the Biochemistry syllabus and all the members approved its contents.
- Dr. P. Suresh Kumar, Academic Council Nominee suggested include e book link in the syllabus below text books.
- Dr.S. Venkatesan, Anna University Nominee suggested to include 2D matrix in blooms knowledge level in course outcomes.

009.04.00: Information about the (Points Discussed in the following)

Item No.	Description	Suggestions / Comments from the BoS Members
009.04.02	Number of students doing Honours / Honours with Specialization / Minors and its respective courses-Results	➢ The HoD presented the details of students undergoing Honours and Minors. ➢ The BOS members appreciated the same
009.04.03	Student Internship Completion details R2021	➢ The HoD presented the details of students who underwent Internship during the academic year 2024-25 ➢ The BOS members appreciated the same.
009.04.04	Pass Percentage of students	➢ The chairpersons presented the Pass percentage year wise and course-wise for I, II, III, IV year and passed out batch. ➢ The BoS members appreciated the results of the students.

009.05.00 : Any other Item

- Mr. Karl Joseph Samuel, Assistant Professor presented the results of NPTEL courses completed by students in the previous semester. The BoS members appreciated the results of the students.
- HoD presented the developments in the Department in terms of Research and Development regarding total amount of Grant Received from MSME 2.0 Idea Hackathon
- The HoD presented the various achievements of II, III and IV BT students in co-curricular and extra-curricular events.
- The HoD presented the various faculty achievements and their research contributions including MSME grants, TNSCST grants, Patents filed and copyrights registered.
- The BoS members appreciated the achievements of Students and faculty members of the department.
- Dr.S. Venkatesan, Anna University Nominee, specifically appreciated the GATE achievers of our department.

009.06.00 : Vote of Thanks

- The meeting ended with the Vote of Thanks by Dr R. Shyam Kumar, Professor and Department of Biotechnology, Kamaraj College of Engineering and Technology, Virudhunagar.

4/12/24

BoS Coordinator

(Dr.Pradiba D)

BoS Chairman

(Dr.R.Shyam Kumar, HoD /BT)

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Department of Mechanical Engineering

Ninth BoS Meeting Minutes

Date : 07.12.2024

Time : 11.00 am to 01.30 pm

Venue : Mechanical CAD Lab (E Block – Third Floor)

The following members were present:

S.No	Name of the Expert	Designation	Capacity
1	Dr. S.Supriya, M.E.(Engg. Design),MISTE,Ph.D.	Professor (CAS) & Head of the Department, Government College of Engineering Tirunelveli – Tamilnadu.	Anna University Nominee
2	Dr.S.Denis Ashok, M.E., Ph.D.	Professor Higher Academic Grade, Design & Automation Department, School of Mechanical Engineering, Vellore Institute of Technology, Vellore – 632014.	Academic Council Nominee
3	Dr.V.Anandakrishnan, M.E., Ph.D.	Professor/Production Engineering, National Institute of Technology, Tiruchirapalli.	Academic Council Nominee
4	Mr.N.Vijayakumar, M.E	Deputy General Manager, Mahindra General Manager, Mahindra Research Valley, Mahindra & Mahindra, Chennai.	Industrial Expert
5	Mr.P.Maniraj, M.E	Software Engineer, Altair Engineering India Pvt Ltd., Chennai.	Alumni

Internal faculty Members of BoS			
S. No	**Name of the Faculty**	**Designation**	**Signature**
1.	Dr.S.Thangakasirajan	Associate Professor & Head / Mech – Convener	
2.	Dr.S.Senthil	Professor & Principal / Mech	
3.	Dr.P.Narayanasamy	Associate Professor / Mech	
4.	Dr. M. Prithiviraj	Assistant Professor / Mech	
5.	Dr. B. Balavairavan	Assistant Professor / Mech BoS Coordinator	20/12/24
6.	Dr. B. K. Parrthipan	Assistant Professor / Mech	
7.	Mr. N. R. Madhan	Assistant Professor / Mech	
8.	Mr.R.Sakthivelmurugan	Assistant Professor / Mech	
9.	Dr. K.Murugananthan	Assistant Professor / Gen Engg	
10.	Dr. S. Muthu Natarajan	Assistant Professor / Gen Engg	
11.	Mr. D. Palani Kumar	Assistant Professor / Gen Engg	
12.	Mr.A.Sankaranarayana Murthy	Assistant Professor / Gen Engg	

009.01.00 : Welcome address by HoD

- Dr.S.Thangakasirajan, HOD/Mech welcomed all the expert members of the Board of studies and Faculty members of the Department of the Mechanical Engineering to the 9th BOS meeting.

009.02.00: Approval of 8th BoS Meeting Minutes & Action taken

- Dr.S.Thangakasi Rajan HoD /Mech has given brief presentation of minutes of the 8th BoS meeting held on April 06, 2024 submitted for approval and action taken report of the 8th BoS meeting . The action taken report is given below.

Item No.	Suggestions of BoS Members in 8th BoS Meeting	Action Taken
BOS 008.03.01	Course Name : Six Sigma Mr.N.Vijayakumar suggested to include the definition of various levels of belts (Ex. white belt, Green belt and Master green belt) in six sigma. Dr. S.Supriya suggested to motivate the students to get various levels of certification in six sigma.	As per the BoS members suggestion, All the corrections meticulously incorporated in the one credit courses.
BOS 008.03.01	Course Name : Geometric Dimensioning and Tolerance. Dr. S.Supriya suggested to encourage the students to do certification course related to GD&T. Mr.N.Vijayakumar suggested to go through the AICTE NEET course on GD&T. Mr.P.Maniraj suggested to include the activity based teaching learning process such as manual drawings submission in drawing sheet, case studies related to engine components as assignment. Mr. P. Maniraj also inquired about the method of evaluation for one-credit courses. The HOD/Mech clarified that the assessment would be practical, involving manual drawing and based on input from the industrial expert who will be handling the subject.	As per the BoS members suggestion, All the corrections meticulously incorporated in the one credit courses.

- All the corrections suggested by the members are carried out in the one credit course in curriculum and syllabus of R2021.

- The members of the BoS resolved and approved the minutes of 8th BoS meeting.

009.03.00: ITEMS FOR DISCUSSION AND APPROVAL

- Dr.S.Thangakasirajan HOD/Mech presented the proposed R2025 Mechanical Engineering curriculum and syllabus for First year courses (1st and 2nd Semester).

009.03.01: Proposed Curriculum and Syllabi for R2025 Mech First Year Courses (1st and 2nd SEMESTER)

First Year – I Semester	
Name of the Course	**Suggestions from BoS members**
English for Professional Development - I	All BoS Members approved the Syllabus.
Calculus and its Applications	Dr. V. Anandakrishnan and Dr. S. Supriya suggested that the title of the mathematics paper should be generalized to include all fundamental engineering math concepts in the first semester. Dr. S. Denis Ashok Suggested application oriented maths may be offered in higher semester. Due to time constraints caused by student admissions in the first semester, basic math concepts need to be taught to all students.
Engineering Physics	All BoS Members approved the Syllabus.
Engineering Chemistry	Mr.P.Maniraj suggested to include the battery related chemistry and alternate fuel related chemistry in the chemistry subject.
Engineering Graphics	Dr. V. Anandakrishnan and Dr. S. Denis Ashok suggested to remove the topic "Basic Geometric Shapes" from Unit 5 and classifying it as a non-examinable topic. Dr. V. Anandakrishnan opined that the topic "Perspective Projection of Cube" should be removed from Unit 5 and replaced with the topic "Perspective Projection of Squares, Rectangular Prisms, and

	Pyramids Mr. N. Vijayakumar suggested including a student activity titled "Role of Engineering Graphics in Domain-Specific Applications." Denis Ashok stated that in the R2020 and R2021 curricula of KCET, Engineering Graphics was offered in the second semester. Due to delays in student admissions during the first semester and the complexity of the subject, offering Engineering Graphics in the second semester of the R2025 curriculum may be considered, if feasible.
Problem Solving techniques using C	Dr.S.Denis Ashok suggested to include the domain based case study in students activity. For the concept of arrays in the "C" language, Dr. S. Supriya suggested incorporating the topic of matrices in the first-semester Mathematics syllabus. Mr. P. Maniraj opined that the concepts of functions, pointers, and data files are not included in the syllabus. He suggested incorporating an introduction to all these topics.
Heritage of Tamils	All BoS Members approved the Syllabus.
Basic Sciences Laboratory	All BoS Members approved the Syllabus.
Problem Solving techniques using C laboratory	Mr.P.Maniraj suggested that theory exercises and Lab exercises are the same. It would be better if domain-specific problems could be given in the Problem Solving techniques using C Laboratory.

First Year – II Semester	
Name of the Course	**Suggestions from BoS members**
English for Professional Development - II	All BoS Members approved the Syllabus.
Advanced Calculus and Laplace	Dr. S. Denis Ashok suggested that the matrix topic be

Transform	shifted to the first-semester mathematics course. He also emphasized the inclusion of domain-specific mathematical applications in second semester mathematics. Mr. P. Maniraj also suggested that if 'C' Programming is offered in the first semester, the topic "Matrix and its Functions" should be shifted to the first semester as well.
Materials Science	All BoS members said the Engineering Physics and Material Science syllabi are nearly identical. In the Material Science subject, Units 1 and 2 must be revised and their contents reworked.
Computational Biology and Environmental Engineering	All BoS Members approved the Syllabus.
Engineering Mechanics	All BoS Members approved the Syllabus.
Python Programming	Mr.P.Maniraj suggested that change the Unit II title to "Strings and Containers". Dr. S. Denis Ashok suggested to include domain-specific activities in the student's activities.
Tamils and Technology	All BoS Members approved the Syllabus.
Engineering Practices Laboratory	All BoS Members approved the Syllabus.
Python Programming Laboratory	Dr. S. Supriya and Mr. N. Vijayakumar suggested including domain-specific problems in the students activity of Python programming laboratory.

As per the suggestions from the BoS members, the HoD/ Mech resolved to incorporate domain-specific applications into students' activities for all subjects.

009.03.02: Proposed Curriculum for R2025 Mech from 3rd Semester to and 8th Semester)

Dr. B.Balavairavan, BoS Co-ordinator presented the Proposed R2025 Mech Curriculum from 3rd Semester to 8th Semester.

SEMESTER III

Sl.No.	T/TCP/L	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1	Theory	Design Thinking (Common to All)	3	3	0	0	3
2	Theory	Manufacturing Processes	4	2	0	2	3
3	Theory	Theory of Machines	4	3	1	0	4
4	Theory	Fluid Mechanics and Hydraulic Machines	3	3	0	0	3
5	Theory	Engineering Thermodynamics	3	3	0	0	3
6	ETC	Artificial Intelligence for Mechanical Engineers	2	2	0	0	2
7	Lab	Computer-aided Machine Drawing lab	4	0	0	4	2
8	SDC Lab	Communications Skills - LRWS	2	0	0	2	1
9	Lab	Fluid Mechanics and Dynamics Lab	4	0	0	4	2
		Total	**29**	**16**	**1**	**12**	**23**

SEMESTER IV

Sl.No.	T/TCP/L	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1	Theory	Probability Statistics and Numerical methods	4	3	1	0	4
2	Theory	Manufacturing Technology	3	3	0	0	3
3	Theory	Strength of Materials	3	3	0	0	3
4	Theory	Thermal Engineering	4	3	1	0	3
5	ETC	Machine learning in Materials Engineering	2	2	0	0	2
6	SDC	Fluid power Automation	4	2	0	2	4
7	Lab	Thermal Engineering Lab – I	4	0	0	4	2

8	Lab	Manufacturing Technology Lab	4	0	0	4	2
9	Project Based	Engineering Clinic-II	3	0	0	3	1
		Total	**31**	**16**	**2**	**13**	**24**

SEMESTER V

Sl.No.	T/TCP/L	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1	Theory	Design of Machine Elements	4	3	1	0	4
2	Theory	Engineering Metrology, instrumentation, and Quality control	3	3	0	0	3
3	Theory	Additive Manufacturing and Reverse Engineering	3	3	0	0	3
4	Theory	Professional Elective –I	3	3	0	0	3
5	Theory	Open Elective – I	3	3	0	0	3
6	ETC	CAD	4	2	0	2	2
7	SDC	Modern robotics	2	2	0	0	1
8	Lab	Metrology and TOM Laboratory	4	0	0	4	2
9	Lab	Computer aided modelling and 3D printing Lab	4	0	0	4	2
10	Lab	Industrial Internship (Mandatory)	0	0	0	0	1
		Total	**30**	**19**	**1**	**10**	**24**

SEMESTER VI

Sl. No.	T/TCP/L	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1	Theory	Heat and Mass Transfer	**3**	3	0	0	3
2	Theory	Mechatronics and IoT	4	2	0	2	3
3	Theory	Professional Elective -II	3	3	0	0	3
4	Theory	Professional Elective - III	3	3	0	0	3

5	Theory	Professional Elective - IV	3	3	0	0	3
6	ETC	Finite element analysis	3	2	1	0	2
7	SDC	Industry 4.0 and digital twins	2	2	0	0	1
8	Lab	Simulation using modern tools	3	0	0	3	1
9	Lab	Heat and mass Transfer Lab	3	0	0	3	1
10	Project based	Capstone Design Project	3	0	0	3	1
		Total	**30**	**18**	**1**	**11**	**21**

SEMESTER VII

Sl.No.	T/TCP/L	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1	Theory	Computer Integrated Manufacturing	3	3	0	0	3
2	Theory	Professional Elective -V	3	3	0	0	3
3	Theory	Open Elective - II	3	3	0	0	3
4	Theory	Open Elective - III	3	3	0	0	3
5	ETC	Lean manufacturing and six sigma	2	2	0	0	2
6	SDC	Startup Initiatives	2	2	0	0	1
7	Lab	Computer Integrated Manufacturing and CNC Laboratory	4	0	0	4	2
10	Project based	Industrial Internship (Mandatory)	0	0	0	0	1
		Total	**20**	**16**	**0**	**4**	**18**

SEMESTER VIII

Sl. No.	T/TCP/ LAB	COURSE TITLE	CONTACT PERIODS	L	T	P	C
1		Project Work	20	0	0	20	10
		Total	**20**	**0**	**0**	**20**	**10**

The BoS members suggested following corrections in R2025 Mech 3rd Sem – 8th Sem curriculum

- Dr. S.Supriya suggested that "Fluid mechanics and Strength of materials lab" may be offered in 3rd semester.
- Dr. S. Denis Ashok suggested shifting the "Theory of Machines" course and its laboratory to the 4th semester.
- Dr. V. Ananda Krishnan stated that Anna University has instructed all engineering colleges to include the "Entrepreneurship Development" course as a mandatory subject in the 5th semester.
- Dr.S.Denis Ashok suggested to integrate the ML in the course Artificial Intelligence for Mechanical Engineers and it should be offered in 3rd semester.
- Dr. S. Supriya emphasized including Engineering Materials and Metallurgy as a separate core course in the 4th semester. Dr. S. Denis Ashok suggested incorporating Machine Learning (ML) for material selection as an advanced topic in Unit 1.
- Mr. N. Vijayakumar suggested that Manufacturing Processes be offered as a separate core course, with the laboratory content combined into the fourth semester as Manufacturing Technology Lab.
- Dr. S. Supriya and Dr. S. Denis Ashok emphasized that the engineering clinic should be incorporated into the third-year curriculum, while the core laboratories in the second year should remain unchanged.
- Mr. P. Maniraj suggested renaming the "3D Modelling Lab" to "the CAD Lab" in the 5th semester. He also emphasized teaching the latest design and analysis software in both the CAD Lab and ANSYS Lab.
- Dr. V. Anandakrishnan suggested renaming the course" Engineering Metrology, Instrumentation, and Quality Control" to "Engineering Metrology and Quality Control" in the 5th semester.
- Dr. S. Denis Ashok and Dr.V.Anandakrishnan suggested to offer "Six Sigma" and "Supply Chain Management and Logistics" as separate Skill Development courses in 6 and 7th Semester respectively.
- Mr. N. Vijayakumar suggested to include the Industrial case studies in the Process Planning and Cost Estimation" Subject in the 7th Semester.
- Dr. S. Denis Ashok suggested incorporating Mastering Excel and Power BI into the Data Science and Management course, offering it as a non-credit mandatory course.

As per the suggestions from the BoS members, the HOD/Mech resolved to incorporate all the corrections into the R2025 Mech curriculum.

009.03.03: Transfer Student – Course Equivalence

Dr.B.Balavairavan BoS Coordinator informed BoS members that, Student Ganesh Shree .M (Reg. no 921021114005), the student who had originally joined B.E. Mechanical Engineering under Regulations 2021 in "Nadar Saraswathi College of Engineering and Technology (NSCET)" affiliated to Anna University, Chennai and got transferred to Kamaraj College of Engineering & Technology (KCET), in the 7th semester under Regulations 2021 during the academic year 2024 – 2025.

The transfer student need to study the following List of Additional courses during her final year of study to fulfill the KCET R2021 Mech Curriculum.

Sl.No	Sub Code & Sub Name	SEM	Category	Credit
1	GE2201 – Design Thinking	III	EM	3
2	ME2354 – Design Project and Prototyping	VI	EM	1
3	ME2353 - Simulation and Analysis Laboratory	VI	PC	1

Course Enrollment by the student in R2021 KCET Mech Final year curriculum

SEMESTER VII 2024 -25 ODD Semester				
Sl.no.	Course code	Course title	Category	Credits
1	ME2401	Computer Integrated Manufacturing	PC	3
2	ME2402	Mechatronics and IoT	PC	3
3	GE2401	Universal Human Values and Ethics	HS	2
4	GE2492	Total Quality Management	HS	3
5	OIT701	Augmented Reality and Virtual reality fundamentals for Big data	OE	3
6	OIT702	Sensors and Wireless Technologies	OE	3

7	ME2403	Computer Integrated Manufacturing Laboratory	PC	1
8	ME2404	Mechatronics and IoT Laboratory	PC	1
9	GE2201	Design Thinking	EM	3
10	ME2354	Design Project and Prototype	EM	1
11	ME2353	Simulation and Analysis Laboratory	PC	1
			Total	**24**

SEMESTER VIII 2024 -25 EVEN Semester				
Sl.no.	Course code	Course title	Category	Credits
1	ME2451	Project Work	EM	10
			Total	**10**

Dr. B. Balavairavan, BoS Coordinator, requested the BoS members to approve a list of additional courses that the transfer student, Ganesh Shree, needs to study in her final year, along with course enrollment for the 7th and 8th semesters.

All BoS Members approved the same.

009.03.04: List of NPTEL Courses (equivalence) offered for the students who are opting for Honours/alternative to professional elective courses (Apr – May 2025 session)

Sl.No	**Professional Elective Courses**	**Equivalent NPTEL Course**
1	VME331 – Conventional and Electric Vehicles	NA
2	VME322 – Automation for Manufacturing	Manufacturing Automation
3	VME341 – Fundamentals of Industry 4.0	Introduction To Industry 4.0 And Industrial Internet Of Things
4	VME321 – Reverse Engineering	NA
Sl.no	**Honours courses**	**Equivalent NPTEL Course**
1	VME345 – Programming for Robotics and CNC Machines	NA

2	VME314 – Drone Technology	NA

- The BoS members suggested to check the difficulty level of courses on students perspectives and approved the course equivalence.

009.04.00: ITEMS FOR RATIFICATION

BoS Co ordinator discussed about the list of items needed ratification from the BoS members.

009.04.01: Changes or corrections in the existing curriculum of R2021

Existing	Corrections required	Reason
R2021		
Open elective course OME701 – 3D Printing and Design. CO2 - Explain the principle and process of Polymer-based Additive Manufacturing techniques. CO3 -Discuss the principle and process of Metal-based Additive Manufacturing techniques. CO4 - Describe the various materials used in Additive Manufacturing techniques.	The Ratification needed for following changes in CO as per content available in Unit 2,3 and 4 for the Open elective course OME701 – 3D Printing and Design. CO2 - Describe the various materials used in Additive Manufacturing techniques. CO3 - Explain the principle and process of Polymer-based Additive Manufacturing techniques. CO4 - Discuss the principle and process of Metal-based Additive Manufacturing techniques.	Copy paste error – CO 2,3 and 4 rearranged in syllabus.

- The BoS members ratified all the points discussed and approved the same.

009.04.02 : Curriculum Feedback and action taken

BoS Co-ordinator shared the R2021 Curriculum Feedback by students and action taken by Department to the BoS members.

Observations from Students Feedback on R2021 Curriculum & Syllabus	Action taken
➢ The distribution of courses given in R2021 Mech curriculum is adequate. ➢ The laboratory and infrastructure facilities provided is moderate. ➢ The EM courses in available in R2021 curriculum is more adequate. ➢ The experimental learning in available course of R2021 curriculum adequate. ➢ Good scope in analytical and problem-solving skills. ➢ Industrial / placement-related scope is moderate. ➢ Learning resources for R2021 Need to be improved.	➢ The Theory based laboratory courses included in second year curriculum. ➢ The students must complete Inplant training /internship and also Motivated the students to do online certification courses. ➢ Purchase of Text book for new regulation R2021 is initiated. Students are motivated to utilize institution library facilities effectively. ➢ Guest lectures by eminent industrial expert were conducted to bridge the gap between industry and institute. More alumni interaction is planned. ➢ Motivated the students to apply for the Smart India Hackathon and file their projects as patents.

The BoS members appreciated the efforts taken by the department.

The BoS also members suggested to collect the student and faculty feedback about the curriculum and implementing the changes in curriculum periodically.

009.04.03: Value Added Courses offered if any

Specify the Value added courses conducted in the department.

Dr.S.Thangakasirajan HOD/Mech informed to BoS members that the following value added courses are offered for Mechanical Engineering students and the ratification needed to include the credits earned by students from value added courses as over and above credits.

Sl.No.	Name of the Course	Year	Offered by	Date	No of Students
1	CATIA	III/Mech	INVENTATEC, Chennai	31.07.2023 to 05.08.2023	42
2	CAD using UG - NX	II/Mech	CIPET, Madurai	13.02.2024 to 19.02.2024	31
Proposed List of Value Added Course for upcoming Semester: CAD Tool, CAE Tool, CNC Coding, GD&T, HVAC, and Piping Engineering.					

All the BoS members ratified and approved the same.

009.05.00: INFORMATION ABOUT THE (POINTS DISCUSSED IN THE FOLLOWING)

009.05.01: Professional Electives (From Verticals) opted by III Year Students in V semester (R2021)

Dr.B.Balavairavan BoS Coordinator Presented the professional electives opted by students (V Sem - Even 2024-25) from verticals.

Sl.No	Name of the professional Elective Vertical	Subject code& Name	No.of students
1	E-VEHICLES AND ENERGY SYSTEMS	VME331 – Conventional and Electric Vehicles	31
2	DIGITAL MANUFACTURING	VME322 – Automation for Manufacturing	31
3	INDUSTRY 4.0	VME341 – Fundamentals of Industry 4.0	31
4	ADVANCED PRODUCT DESIGN	VME312 – Reverse Engineering	31

BoS members appreciated the implementation of PE courses from verticals.

009.05.02: Number of Students doing Honours and its respective courses

Dr. B.Balavairavan BoS Coordinator Presented the Honours degree and its respective courses opted by students (V Sem - Even 2024-25) to the BoS Members.

Sl.No	Honours	Unique code	Subject code& Name	No.of students
1	Honours	Hs 1	VME345 – Programming for Robotics and CNC Machines	6
		Hs 2	VME314 – Drone Technology	6

The BoS members appreciated and congratulated the students.

009.05.03: Number of Students doing Minors and its respective courses

Dr. B.Balavairavan BoS Coordinator Presented the Minors and their respective courses opted by students to the BoS Members.

Sl.No	Minors	Unique code	Subject code& Name	No.of students
1	Minors	M 1	MMT103 - Industrial Robotics	4
2		M 2	MMT104 – Service and Field Robotics	4
3		M 3	MBD003 – Big data Analytics for Business	1
4		M 4	MBD004 – Machine Learning for Business Analytics	1

BoS members appreciated the efforts taken by Institution and Department for offering honours and Minor degree courses to the students.

Item No.	Description	Suggestions / Comments from the BoS Members
009.05.04	Pass Percentage of students.	Dr.B.Balavairavan, AP/Mech Presented the students performance in End semester examinations held on April/May 2024 (Even Semester) year-wise and course-wise. BoS members appreciated the same. BoS members suggested to conduct the special coaching class of mathematics courses for first year and second year.
009.05.05	Value Added Courses offered/ Planned for the academic year: 2024 – 2025 (II Year students – Even Semester).	Dr.B.Balavairavan, AP/Mech Presented the Value added course planned for the academic year 2024 – 2025. BoS members suggested some value added courses for next academic year: Lab view, Computational fluid dynamics, Image processing and coding, NX CAD, CATIA and Solid works.
009.05.06	Student Internship details (between 8th and 9th meeting)	Dr.B.Balavairavan, AP/Mech shared the statistical data of the student internship/ Inplant training details for R2021. The BoS members appreciated the same and suggested to involve industry in partial delivery of lectures and create excellence centre in the department.

009.06.00 : Any other Item

Nil

009.07.00 : Vote of Thanks

- The meeting ended with the Vote of Thanks by Dr.P.Narayanasamy, Associate Professor, Department of Mechanical Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

10/12/24.

BoS Coordinator
(Dr.B.Balavairavan)
AP / MECH

10/12/24

BoS Chairman
(Dr.S.Thangakasirajan)
ASP &HoD / MECH.

KAMARAJ®
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Civil Engineering

Ninth BoS Meeting Minutes

Date : 23.12.2024

Time : 9.30 am

Link : https://tinyurl.com/2zab4v5s

S.No.	Name of the Expert	Designation	Capacity
1	Dr. S. Arul Mary	Professor & Head, Department of Civil Engineering, Thiagarajar College of Engineering, Madurai	Anna University Nominee
2	Dr.K.Muthukumaran	Professor & Head, Department of Civil Engineering National Institute of Technology, Tiruchirappali	Academic Council Nominee
3	Dr.C.Sivanesan	Professor, Department of Civil Engineering Government College of Engineering, Srirangam, Trichy.	Academic Council Nominee
4	Er.S.Viswanathan	Structural and Project Management Consultant, Viswanathan Associates, Madurai	Industrial Expert
5	Er.J.Jeyapraveen	Proprietor, JPJ Construction, Madurai	Alumni

The following members were present:

Internal Faculty Members of BoS			
S.No.	**Name of the Faculty**	**Designation**	**Signature**
1	Dr.N.Jegan Durai	Assistant Professor & HOD/Civil Chairman of BoS – CIVIL	
2	Dr.M.Subahar	Assistant Professor/Civil Department BoS Coordinator	
3	Dr.P.Ganesh Prabhu	Assistant Professor/Civil	
4	Mr.P.Ponkarthikeyan (Ph.D.,)	Assistant Professor/Civil	
5	Mr.D.Velumani (Ph.D.,)	Assistant Professor/Civil	
6	Mrs.S.Brintha	Assistant Professor/Civil	
7	Mr.K.Hariharan	Assistant Professor/Civil	

009.01.00 : Welcome address by HoD

- Dr.N.Jegan Durai (Head of the Department) Department of Civil Engineering welcomed the BoS committee Members.

009.02.00 : Approval of 8th BoS Meeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 8th BoS Meeting	Action Taken
1.	• One credit course • Subject name can be changed from Quality Control in Construction to Best Practices in Construction. • Subject name can be changed to Short Course on Project Management and Contract documentation to be included in the Syllabus.	• The name has been changed as Best Practices in Construction.
2.	• Subject name can be changed to Short Course on Project Management and Contract documentation to be included in the Syllabus.	• The name has been changed as Short Course on Project Management and Contract documentation has been included in the syllabus.

- HoD/CIVIL gave a brief presentation about the review of the Minutes of the 8th BoS meeting. Recommendations of the committee and relevant implications were presented to the committee. 8th BoS recommendations were reviewed and accepted by the committee.

009.03.00 : Discussion of Pre – BoS Meeting Minutes

- The HOD, Presented the following minutes of Pre – BoS meeting.
- Members suggested that Python programming will support for placement in software industry.
- Members suggested following courses as Emerging technology courses
  - Project management software's (MSP & Primavera)
  - Estimation software (Cost X)
  - Rivet architecture and BIM techniques
- Members suggested following courses as Skill Development courses
  - Advanced Excel
  - Hindi Language
- Members suggested that Industrial training by industrial persons and internship more than one month or at end of each semester will improve the knowledge of field practices.

009.04.00 : Discussion of Industrial Committee Meeting Minutes

- The HOD, Presented the following minutes of Industrial Committee Meeting.
- Er.G. Jeganathan suggested the following points
  - Staad Pro can be included in the structural analysis or offered as a skill development course.

- Advanced excel with visual basic macro can be given as a skill development course.
- Cost Estimation using CostX software can be included in Estimation costing and quantity surveying laboratory course.

➢ Er.S.Kabilan suggested the following points

- Retaining wall construction using Reinforced earth wall panels and its erection can be included as case study in highway engineering. (Case study)
- Application of Integrating of GPS and GIS for locating a land from map to field can be given as case study. (Case study)
- Studying the project report and gathering information to execute the work can be practiced with the support of industrial experts. (Guest lecture)
- Importance of safety in construction need to given for the students either in construction management course or as a separate course. (safety will included as separate unit in CM)

➢ Mr.C.Gnanam suggested the following points.

- A course can be framed with the following topics importance of safety in cost control, TN BOC act 1996 and rule 2006, SO, quality management system. (Planned to offer as course in Skill development)
- Rain water management system with case study can be included in the water resource management. (a)
- Basic knowledge about the Hindi language and foreign language can be offered as a mandatory course to handle the employees in the field.
- The meeting ended up successfully with all the suggestions and thoughts of the members.

009.05.00 : Discussion and approval of R2025 Curriculum and First Year Syllabus

➢ The BoS Coordinator Dr.M.Subahar, Presented the R2025 curriculum and the First year syllabus.

Semester	Suggestions from BoS Members
I	• Approved by BoS Members
II	• In Mechanics of Solids – In fifth unit Stress tensor at a point can be changed as State of stress at a point.
III	• Till fourth semester basic subjects should be completed and from fifth semester Emerging Technology and Mandatory skill development courses shall be offered.
IV	• Concrete and Highway Engineering subject shall be separated and given as two different subjects. • Soil Mechanics and Foundation Engineering shall be offered as a separate course. • Geotechnical Lab Course shall be given in the next semester after Geotechnical Theory course. Geotechnical Laboratory shall be moved to fifth semester and Hydraulic Engineering Lab shall be moved to fourth semester.
V	• Structural Analysis and Design of Reinforced Concrete Elements shall be given in different semesters.
VI	• Design Project needs knowledge about analysis and design. So Design Project can be shifted to seventh semester after completing the analysis and design course.
VII	• Estimation Costing and Quantity Surveying Theory course shall be removed as it is given as Lab Course.

VIII	• Approved by BoS Members
Professional Elective	• Subject name can be changed from Intelligent Transport System to Intelligent Transportation Systems. • Prestressed Concrete, prefabricated structures and Construction Techniques subjects can be given in regular courses.
Emerging Engineering Courses	• Fundamentals of Civil Engineering Practices subject shall be renamed as Fundamentals of Building Technology (basics for planning, types of staircase, types of doors, frames, roofs, foundations, etc) • Instead of two or three courses in a particular semester kindly specify any one course which is required for the student's carrier.
Skill Development courses	Approved by BoS Members

- Course related to design of water tank, retaining wall and other advanced design need to be included.
- The Course name should be reflecting the content and it must not be in general (Ex. Engineering Clinic)

009.06.00 : Ratification of change of Course name in existing R2021 curriculum

➢ The course offered as professional elective VCE321 Air Pollution and Control Engineering has been renamed as VCE321 Air Pollution Management. It was approved by BoS members.

009.07.00: Students undergoing Honours / Honours with Specialization were discussed

Name of the IV year students Registered	Name of the III year Students Registered
Amuthavalli. S	Priyanka.G
Priya Dharshini. N	Pavithara. M
Sanjay. R	
Varshidha. U	
Vishva. C	

009.08.00 : 2023 – 2024 Academic Performance has been discussed

- II, III & IV year End Semester results were discussed.

009.09.00 : Any other Items

- HOD presented the following points.
  - III-year students have completed value added course on "Advanced 3D Modeling using 3ds max with V-Ray Rendering"
  - 7 of the III-year students out of 8 have completed internship for a period of 2 weeks.
  - Graduation percentage is 96% (Batch 2020 – 2024).

009.10.00 : Vote of Thanks

- The meeting ended with the Vote of Thanks by Dr.N.Jegan Durai, Assistant Professor and Head, Department of Civil Engineering, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordinator
(Dr.M.Subahar)

BoS Chairman
(Dr.N.Jegan Durai)
HoD / Civil

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COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Mechatronics Engineering

Ninth BoS Meeting Minutes

Date : 07-12-2024

Time : 2.00 P.M to 3.30 P.M

Mode of Meeting : Hybrid Mode

Link : https://teams.microsoft.com/l/meetup-join/19%3ameeting_NjRlMDVmZmItMDNjZS00ZTFiLTk0M2MtZTc0NTY4MTE4M2Vm%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%228d8dc07c-4dcd-4d88-8b41-6f9fb8d542c9%22%7d

The following members were present:

S.No.	Name of the Expert	Designation	Capacity
1	Dr. S. Supriya	Professor & Head, Department of Mechanical Engineering, Government College of Engineering College, Tirunelveli - 627007.	Anna University Nominee
2	Dr. N. Sivakumaran	Professor, Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli - 620015.	Academic Council Nominee
3	Dr. M. Suresh	Associate Professor, Department of Robotics and Automation Engineering, PSG College of Technology, Coimbatore – 641004.	Academic Council Nominee
4	Dr.R.Kesavamoorthy	Director, Meta Heuristic Corporate India Pvt. Ltd., ISRO Layout, Bangalore – 560078.	Industrial Expert
5	Mr. P. Rilwan Fayas	Senior Engineer & Team Lead Automotive Domain, TATA ELXSI, Tiruvanathapuram – 695581	Alumni

Internal faculty Members of BoS			
S.No	**Name of the Faculty**	**Designation**	**Signature**
1.	Dr. K. Kannan, M.E., Ph.D.,	Professor & Head	
2.	Dr. M.Sudalaimani, M.E., Ph.D.,	Associate Professor	
3.	Dr. S.Rajesh Babu M.E., Ph.D.,	Assistant Professor	
4.	Dr. P. Bala Sundar, M.E, Ph.D.,	Assistant Professor	
5.	Mr. A. Arul Kumar, M.E, (Ph.D.,)	Assistant Professor	
6.	Mr. S. Wesley Moses Samdoss,M.E.,(Ph.D.,)	Assistant Professor	
7.	Mr. A. Ganesan, M.E.,	Assistant Professor	

009.01.00 : Welcome address by HoD

- Welcome address
- Dr. K. Kannan, Professor & HoD/MTRE gave welcome address to all the members of the Board of Studies.

009.02.00 : Approval of 8th BoS Meeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 8th BoS Meeting	Action Taken
008.03.01	Suggestions of BoS Members in the **One Credit subjects** ➢ Members, suggested identifying the industries which are offering this type of courses.	As per the member's suggestions the industry which was offering this courses were identified to offer this courses.
008.03.02	**Over & above credits under EM category (Internships, Skill Development Programme etc…)** ➢ The members approved to provide over & above credits to internships as one credit for 15 days internship with through evaluation of the internship reports. ➢ The members approved to provide over & above credits to Value Added courses. ➢ Members discussed about the Honours/Minors Degree eligibility	As per the member's recommendations provided the 1 credit to internships for 15 days internship after through evaluation of the internship reports. The over & above credits were offered to Value Added courses. The members approved to provide over & above credits to the

<table>
<tr><td></td><td>Criteria. If the students enrolled for Honours/Minors Degree and failed to meet eligibility criteria members approved to consider that courses as over and above credit courses.</td><td>students enrolled for Honours/Minors Degree and failed to meet eligibility criteria.</td></tr>
<tr><td>008.03.03</td><td>List of NPTEL Courses (equivalence) offered for the students in Honours / Minor degree / alternative to professional elective courses
➢ Members approved the below NPTEL Courses as equivalence to Honors/Professional Elective Course.
<table>
<tr><th>NPTEL COURSE</th><th>Equivalent Honors/ Professional elective course</th></tr>
<tr><td>Advanced Manufacturing</td><td>Advanced Machining Processes</td></tr>
<tr><td>Automobile Engineering</td><td>Fundamentals of Automotive Systems</td></tr>
<tr><td>Drone Technology</td><td>Introduction to Aircraft Control System</td></tr>
<tr><td>Autonomous Mobile Robots</td><td>Advanced Robotics</td></tr>
<tr><td>Design of Robot Elements</td><td>Design of Mechanical Transmission Systems</td></tr>
</table></td><td>As per members suggestions the mentioned NPTEL courses were offered as Courses equivalence to professional elective courses.</td></tr>
<tr><td>008.04.02</td><td>NPTEL Examination results (student’s performance) and action taken for the students who did not receive the certificates. Members suggested that the students who have failed should be given another chance to repeat the same NPTEL course again.</td><td>As per Members suggestion another chance given to the failed students to repeat the same NPTEL course.</td></tr>
<tr><td>008.04.03</td><td>Curriculum feedback and action taken if any
➢ Members suggested to get the</td><td>As per Members suggestion feedback collection process on curriculum by employers was</td></tr>
</table>

	employer feedback in future.	started.
008.04.04 :	BoS members advised the three-member committee to choose the value-added courses as per current trends and skills requirement for core industries.	As per the three member committee suggestions Value added course on Advanced Industrial Automation was offered to the students to meet the skills requirement for core industries.
008.05.03	Pass Percentage of students Members appreciated the III Year and final year results and suggested to concentrate on II Year Results, especially III and IV Semester.	As per Members suggestion faculty members utilized the Modern tools /Technologies in Teaching Learning Process to improve the understanding level of the concepts. Also slow learners were identified and follow up actions were taken to improve results.

- All the members appreciated our efforts taken towards implementing the suggestions given by the members.
- All the members jointly approved the Minutes of the Eighth Board of Studies meeting.

009.03.00 : Discussion and approval of

009.03.01 : Curriculum Framework of R2025

- Dr. K. Kannan, Professor & HoD/MTRE presented the proposed R2025Curriculum incorporated with the suggestions received from industrial committee members and syllabus for getting the approval from the Board of Studies Members. The following suggestions were recommended by the members.

Subjects Name	Suggestions / Comments from the BoS Members
Basic Sciences Laboratory	➢ Dr. M. Suresh, Academic Council Nominee pointed out the typo error in the category of Basic Sciences Laboratory and suggested to change its as Basic Science category.
Computer Aided Design Laboratory	➢ The members discussed about the contents of this course and suggested to rename it as

	Computer aided Drafting Laboratory. ➢ Dr.S.Supriya, Anna University Nominee Suggested to include exercises with Electrical CAD for PCB Designs.
Capstone Design Project-1	➢ Dr. R. Kesavamoorthy, Industrial Expert clarified the number of credits for this Design Project. ➢ Dr.K.Kannan clarified the credits and contact hours for this Capstone Design Project-1.
Industrial Robotics	➢ Dr. M. Suresh, Academic Council Nominee enquired about the core subject Robotics and Machine Vision System in R2025 Curriculum. ➢ Dr.K.Kannan explained this course is offered under Professional Elective. ➢ Dr. M. Suresh, Academic Council Nominee suggested to offer fundamental core concepts in professional core courses. He suggested to include one or two unit in Industrial Robotics subject. ➢ Members expressed semester V courses are heavy. So they suggested swapping of courses from semester V to VI as below. ➢ If any credit constraints in semester V Members suggested to swap the course Industrial Automation projected in Semester VI with the courses Industrial Robotics, Thermodynamics and its Applications projected in Semester V.
Computer Aided Design and Manufacturing Laboratory	➢ Dr. M. Suresh, Academic Council Nominee enquired this course contents CAD/CAM or CAD with Conventional machining. ➢ Dr.K.Kannan clarified this course contents as CAD/CAM. ➢ Members suggested to include CNC machining in the syllabus. ➢ Dr.S.Supriya, Anna University Nominee Suggested to include exercises with Human Machine Interface
Emerging Technology Course	➢ Dr.S.Supriya,Anna university Nominee pointed out the typo errors in proposed R2025 Curriculum as below: ➢ She asked to rename the Emerging Technology Course – III,IV,V in Semester V,VI,VII respectively.
Industrial Internship (Mandatory)	➢ All the members appreciated for offering Industrial Internship as Mandatory course since it helps to students to have industrial exposure.
Professional Elective Courses: Verticals	➢ Mr. P. Rilwan Fayas, suggested that Professional Elective Course syllabus must have Mechanical, Electrical and Electronics

	part especially in Design of UAV, Drone Technology. Since this courses are future oriented and beneficiary to mechatronics students.
Emerging Technology Courses (ETC) / Skill Development Courses (SDC)	➢ Dr.S.Supriya, Anna University Nominee appreciated for including ETC/SDC in R2025 Curriculum. She suggested to offer Internet of Things course before Fourth Semester. Since this course will helpful to student's projects.
Dr.S.Supriya, Anna University Nominee Suggestions in R2025 Curriculum	➢ Engineering Graphics may offered in Semester II instead of Semester-I.

009.03.02: I year Syllabus

subjects	**Suggestions / Comments from the BoS Members**
Calculus and its applications.	➢ Dr.S.Supriya, Anna University Nominee Suggested to have Engineering Mathematics –I in R2025 Curriculum since instead of narrow down to the specific course like Calculus and its applications.
Engineering Graphics	➢ The Curves used in engineering practices may shifted to Unit –I under not for examination unit. Since Unit V is heavy in nature. ➢
Problem Solving techniques using C	➢ Dr.S.Supriya, Anna University Nominee Suggested Illustrative Examples may change as Domain specific examples since this course is a common course.
Problem Solving Techniques using C Laboratory	➢ Mr. P. Rilwan Fayas suggested to ensure Pointers and Memory allocation in the syllabus. Since it makes the students to become industry ready engineers.
Advanced C Programming	➢ Dr.K.Kannan clarified this course is offered by CSE board and the syllabus is framed with the help of Industry peoples. ➢ Members suggested to concentrate in functional pointers it is very useful in deployment of projects.

009.03.03 : Approval of Transfer Student / List of Courses did / alternative (equivalence) to be offer for the Transfer students.

- Dr.K.Kannan, Presented the comparison table of Courses did by the transfer student in R2023 of Muthayammal Engineering College with R2021 of Kamaraj College of Engineering and Technology and seeking suggestions for R2021 equivalent courses.

Semester I:

Regulation 2021 of KCET				Regulation 2023 of MEC			Sem in MEC
Sl. No	Subject Code	Subject Name	Credit	Subject Code	Subject Name	Credit	
1.	SH2101	Technical English	3	**23HSS01**	Technical and Communicative English I	3	I
2.	MA2101	Matrics and Differential Calculus	4	**23BSS21**	Algebra and Calculus	4	I
3.	BH2101	Engineering Physics	3	**23BSS01**	Engineering Physics	3	II
4.	GE2101	Principles of Engineering	3	-	-	-	-
5.	CY2101	Engineering Chemistry	3	**23BSS11**	Engineering Chemistry	3	I
6.	EM2101	Coding Techniques - I	3	**23GES01**	Programming for Problem Solving Using C	3	I
7.	MA2102	Mathematics Laboratory	1	-	-	-	-
8.	PH2102	Physics Laboratory	1	**23BSS02**	Physics Laboratory	2	II
9.	EM2102	Coding Techniques – I Laboratory	1	**23GES02**	Programming in C Laboratory	1	I

Suggestions from Department Level

Suggestions for credit equivalence for both theory and Lab courses:

The Following List of First semester courses need to be studied by students to fulfil the R2021 KCET – MTRE curriculum Syllabus.

S.No	Sub Code & Sub Name	Credit
1.	GE2101- Principles of Engineering	3
2.	MA2102- Mathematics Laboratory	1

Semester II:

Regulation 2021 of KCET				Regulation 2023 of MEC			Sem in MEC
Sl.No	Subject Code	Subject Name	Credit	Subject Code	Subject Name	Credit	
1.	SH2151	Professional English	3	23HSS02	Technical and Communicative English II	3	II
2.	MA2151	Vector Calculus, Complex Integration, and Laplace Transforms	4	23BSS22	Advanced Calculus and Complex Analysis	4	II
3.	PH2151	Physics of Non-Conventional Energy Sources	3	-	-	-	-
4.	GE2151	Engineering Graphics	3	23GES11	Engineering Drawing	3	I

5.	GE2152	Environmental Science and Engineering	1	-	-	-	-
6.	EM2151	Coding Techniques - II	3	-	-	-	-
7.	CY2151	Chemistry Laboratory	1	23BSS12	Chemistry Laboratory	2	I
8.	EM2152	Coding Techniques – II Laboratory	1	-	-	-	-
9.	GE2153	Engineering Practices Laboratory	2	23GES21	Engineering Practices Laboratory	2	II

Suggestions from Department Level

Suggestions for credit equivalence for both theory and Lab courses:

The Following List of Second-semester courses need to be studied by students to fulfil the R2021 KCET – MTRE curriculum Syllabus.

Sl.No	Sub Code & Sub Name	Credit
PH2151	PH2151- Physics of Non-Conventional Energy Sources	3
GE2152	Environmental Science and Engineering	3
EM2151	Coding Techniques - II	3
EM2152	Coding Techniques – II Laboratory	1

Summary of Recommendations for course equivalence of candidate

- The following additional courses are to be studied by this candidate for fulfilling R2021 of our curriculum.

Sl. No	Semester	Subject Code	Subject Name
1.	I	GE2101	Principles of Engineering
2.		MA2102	Mathematics Laboratory
3.	II	PH2151	Physics of Non-Conventional Energy Sources
4.		GE2152	Environmental Science and Engineering
5.		PH2151	Coding Techniques - II
6.		EM2152	Coding Techniques – II Laboratory

- The members appreciated the efforts taken by the UG Coordinator for through analysis of both curriculum and also approved the summary of the recommendations.

009.04.00 : Items for Ratification

009.04.01: Changes or Corrections in the existing Curriculum of R2021

Existing	Corrections required and specify the reasons
Course Code & Name & Regulation	Nil

Credit Adjustment	Nil

009.04.02: Value Added Courses offered - ratification required if any

- The three member committee meeting conducted on 03-05-2024 and the committee has recommended the Value-added course "Advanced Industrial Automation" for 2022-2026 Batch during III Year.
- The BoS members approved the three member committee meeting minutes and
- Accepted the Value-added course "Advanced Industrial Automation" and appreciated the efforts taken by the three member committee.
- The BoS members discussed the syllabus of Value Added Courses suggested by three member committee for Next Academic Year 2025-2026. Members recommended the Value Added Course on "Internet of Things" for upcoming II Year (2023-2027 Batch) in Even Semester. The BoS members appreciated the three members committee for chosen of value-added courses as per current trends and skills requirements for core industries.

009.04.05: Minor Degree Courses - ratification : Nil

009.05.00: Information about the (Points Discussed in the following)

<table>
<tr><th>Item No.</th><th>Description</th><th>Suggestions / Comments from the BoS Members</th></tr>
<tr><td>009.05.01</td><td>Number of students doing Honours / Honours with Specialization / Minors and its respective courses - Results</td><td>The HOD Presented the number of students doing Honours/ Minors with specialization.
<table>
<tr><td>Honours /</td><td>Number of students enrolled (2021-2025 Batch)</td><td>Number of students enrolled (2022-2026 Batch)</td></tr>
<tr><td>Robotics</td><td>9</td><td>5</td></tr>
<tr><td>Smart Mobility Systems</td><td>3.</td><td>6</td></tr>
</table>
The courses are under Robotics Specialization are VMT313 - Autonomous Mobile Robots & VMT314 - Collaborative Robotics,
<table>
<tr><td>Minors /</td><td>Number of students enrolled (2021-2025 Batch)</td><td>Number of students enrolled (2022-2026 Batch)</td></tr>
<tr><td>Computing</td><td>2</td><td>-</td></tr>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Technology</td><td></td><td></td></tr>
<tr><td>Foundations of Entrepreneurship</td><td>-</td><td>2</td></tr>
</table>

The courses are under Smart Mobility Systems Specialization are VMT335 - Design of UAV Systems
VMT336 - Intelligent Transportation System for Smart Mobility.
The HOD Presented the results of students doing Honours/ Honours with specialization.
The members appreciated joint efforts taken by faculty and students for the best results.
</td></tr>
<tr><td>009.05.02</td><td>Student Internship Completion details R2021</td><td>The HOD shared the statistical data of the student internship/ Inplant training details for R2021.
<table>
<tr><th>S. No.</th><th>Year</th><th>No. of Students</th><th>No. of Students Completed Internship</th></tr>
<tr><td>1.</td><td>IV Year (R2021)</td><td>30</td><td>30</td></tr>
<tr><td>2.</td><td>III Year (R2021)</td><td>29</td><td>28</td></tr>
<tr><td>3.</td><td>II Year (R2021)</td><td>25</td><td>Yet to complete before the End of 2024-2025 Even Semester.</td></tr>
</table>
</td></tr>
<tr><td>009.05.03</td><td>Pass Percentage of students</td><td>The HOD Presented the Pass percentage year-wise and course-wise. The members appreciated the IV Year and III Year Results. The members suggested concentrating on I Year Results, especially I and II Semester results.</td></tr>
<tr><td>009.05.04</td><td>Value Added Courses offered / Planned for the academic year 2024 - 2025</td><td>The HOD Presented the Value added course planned for the academic year 2024-2025:
<table>
<tr><td>Value Added Course on</td><td>Batch</td><td>To be offered in which Year</td></tr>
<tr><td>“Internet of Things”</td><td>2023-2027</td><td>II</td></tr>
<tr><td>“Advanced Industrial Automation”</td><td>2022-2026</td><td>III</td></tr>
</table>
The BoS members given the rights to the three members committee to change the value-added courses as per current trends and industry needs.</td></tr>
<tr><td>009.05.05</td><td>NBA eSAR / status / compliance preparation and its information</td><td>The HOD Happily shared the experience of NBA Reaccreditation Expert Committee visit for the Reaccreditation of the Mechatronics Engineering programme. The members appreciated the efforts taken by the faculty members for the successful completion of the compliance report and suggested to concentrate on the points given by experts.</td></tr>
</table>

009.06.00 : Any other Items

Placement Details

- The HOD Presented the Placement Details, Higher Studies Details of 2020-2024 Batch and Placement Details Details of 2021-2025 Batch (Current Final year). The members appreciated the Placement Initiatives taken by the institute/department . The members suggested concentrating on improvement in Average salary of placement.

Students Achievement Details:

- The HOD Presented the Students Achievement Details of the Academic year 2024-2025 (ODD Semester). The members appreciated the Students Achievements of the Academic year 2024-2025 (ODD Semester). The members suggested the faculty members to keeps on motivating the students to participate in Co-Curricular and Extra Curricular Events.

009.07.00 : Vote of Thanks

- The meeting ended with the Vote of Thanks by A.Arulkumar, Assistant Professor, Department of Mechatronics Engineering, Kamaraj College of Engineering and Technology.

10/12/2024

BoS Coordinators
A.Arulkumar,AP/MTRE,

BoS Chairman
Dr.K.Kannan,
Prof & HoD / MTRE

S.Wesley Moses Samdoss, AP/MTRE,

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S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near **VIRUDHUNAGAR**).

Department of Artificial Intelligence and Data Science

Ninth BoS Meeting Minutes

Date : 07.12.2024
Mode : Hybrid Mode
Time : 12.00 Noon
Venue : ADS Smart Class Room / Online

Link :
https://teams.microsoft.com/l/meetupjoin/19%3ameeting_MTY4NzVlMDItN2NkMi00YWM5LWE1OGItY2Q4NGM4YmU1NmVh%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%227b8510ee-eb45-4fbc-beec-ea4399bb7021%22%7d

The following members were present:

External Members

S.No.	Name of the Expert	Designation	Capacity	Participated Mode
1	Dr.P. Chitra	Professor & Head Department of Computer Applications, Thiagarajar College of Engineering, Madurai. pccse@tce.edu, 99449 76549	Anna University Nominee	Physical
2	Dr. S.R. Balasundaram	Professor Department of Computer Applications, National Institute of Technology, Tiruchirapalli -620015. blsundar@nitt.edu, 99942 91420	Academic Council Nominee	Online
3	Dr. N. Radha	Professor Department of Information Technology, SSN College of Engineering, Chennai radhan@ssn.edu.in, 99443 95452	Academic Council Nominee	Physical
4	Mr. U. Shunmugam	Vice President-Products Chainsys, Madurai - 625009. shunmugam.udhayakumar@chainsys.	Industrialist	Physical

		com, 98411 63959		
5	Mrs.M.Punithavathi	Senior Software Quality Engineer, CK-12 Software & Tech. Consulting India Pvt. Ltd., Bangalore, m.punithavathibe@gmail.com, 99448 02350	Alumni	Online

Internal Members

S.No.	Name of the Faculty	Designation
1	Dr.R.Aghila	Convener, Professor & Head, Department of ADS, Kamaraj College of Engineering and Technology.
2	Dr. P.Praveen Kumar	Program Coordinator – ADS, Associate Professor, Department of ADS, Kamaraj College of Engineering and Technology.
3	Mr.P.G.Sivasharma Karthick	Member – Assistant Professor Level Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
4	Mrs.N.Gajalakshmi	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
5	Mrs.S.Nithya	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
6	Mrs.R.Indhuja	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
7	Mrs.K.Indhumathi	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
8	Mrs.V.Sangeetha	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.
9	Mrs.A.Nagalakshmi	Assistant Professor, Department of ADS, Kamaraj College of Engineering and Technology.

009.01.00: Welcome address by HoD

Dr.R.Aghila, HoD (Department of Artificial Intelligence and Data Science) welcomed all the members of the Board of Studies (BoS) and Faculty members of ADS Department to the 9th BoS meeting.

009.01.01: Vision, Mission, PEOs, PSOs

Vision and mission of the college were presented. Vision and Mission of the department presented for approval of BoS members. **BoS members approved the vision and mission.** PEOs, PSOs of the department were also presented.

009.01.02: Overview of the Department

The department intake, admission, lab facilities, placement, graduation percentage details and the faculty members profile were shared by the convener.

009.01.03: Value Added Courses

The convener presented about the Value Added Courses conducted and planned during the academic year 2024-2025 and it is given below:

2024-2025 ODD – Conducted for Third Year

- Django Magic Building Elegant Web Solutions, HDLC Technologies, Chennai
- Ethical Hacking Mastery Defend and Protect, HDLC Technologies, Chennai

2024-2025 EVEN - Planned for Second Year

- Flask
- Java Spring Boot

We got the approval for the conducting React and Angular as a VAC courses in the 8th BOS meeting. As we have planned to conduct React and Angular for all the third year students through Centre of Excellence in Full Stack Development, we conducted Ethical Hacking and Django as a VAC.

BoS members approved the VAC course conducted and planned.

009.01.04: Internship

The convener presented the internship details of III year and IV year ADS students. A student might get maximum of 3 credits from Internship.

Dr.P.Chitra informed that all students must acquire three credits from Internship as per the Anna University guidelines and inform us to ensure the same.

009.02.00: Approval of 8th BoS Meeting Minutes

As there are no specific suggestion and comments given by experts in the 8th BoS meeting, there is no action taken and follow-up required.

BoS members approved the 8th BoS meeting minutes.

009.03.00: Approval of R2025 first year Curriculum

Dr.R.Aghila, HoD has presented the R2025 first year curriculum for approval. BoS members were given the following suggestions in R2025 first year curriculum.

Expert Name	Suggestions
Dr.P. Chitra	• Add an introductory section to the syllabus that gives students an overview of the curriculum, objectives, and expected outcomes. • Replace Computational Biology and Environmental Sciences with Environmental Science and Engineering. • It is not necessary to study Physics in two semesters. • Remove Engineering Graphics and Engineering Practice subjects as they are not relevant to the program, and replace them with program-specific fundamental subjects in the

	first year.
Dr. S.R. Balasundaram	• Include an overview of header files and the execution environment in the syllabus for better understanding of C programming. • The curriculum should clearly differentiate between Computational Biology and Environmental Sciences, as they cover distinct topics.
Dr. N. Radha	• Rename the course "Computer Programming" to "C Programming" to reflect its focus on the C language. • The course Linear Algebra and Complex Integration (TCP) could be converted into a Theory Paper rather than a TCP course. • Statistical Foundation of Data Science subject could be included in the first year.
Mr. U. Shunmugam	• Computational Biology and Physics for Information Science might not be necessary. Instead, introduce domain-specific subjects.
Mrs.M.Punithavathi	• Offer a course Calculus for Data Science that provides a strong understanding of calculus principles, which are critical for machine learning and optimization problems. • Include a subject on Environmental Studies to give students an understanding of the environmental context, which is crucial for fields like sustainable development and data analysis related to environmental impacts.

009.04.00: Approval of tentative R2025 Curriculum (3 – 8 Semesters)

Dr. P. Praveen Kumar, Program Coordinator has presented the New Curriculum R2025 from third semester to eight semester. BoS members were given the following suggestions in the R2025 third to eight semester curriculum.

Expert Name	Suggestions
Dr.P. Chitra	• Retain the separate lab for the subject Data Structures and Algorithm lab which helps to write GATE exams and placement.
Dr. S.R. Balasundaram	• Introduce Django as part of the syllabus to expose students to Python-based web development frameworks. • Move Computer Networks earlier in the syllabus, before Web Development and IoT. • Since there is currently no dedicated IoT subject, it is proposed that the IoT Lab include theoretical content that covers the required IoT concepts. This will ensure that students are introduced to the necessary background knowledge while engaging in hands-on IoT labs. • Fundamentals of Data Science and Fundamentals of Data Analytics should be clearly differentiated in the syllabus. Care will be taken to explain the unique aspects of each field to avoid overlap and ensure students understand the

	distinct concepts and techniques associated with data science and analytics.
Dr. N. Radha	• Replace Web Application Development with a TCP course. • Move Fundamentals of Data Science to the second semester and offer it as a TCP subject. • Offer Fundamentals of Data Analytics as a TCP subject with practical, real-time exposure.
Mr. U. Shunmugam	• Suggested to include NOSQL database as a part any subject. • Convert Data Structures and Algorithms (theory and lab) into a TCP subject. • The Internet of Things Laboratory may not be required. • Modify DevOps into a TCP subject instead of requiring separate theory and lab components. • Add a separate Big Data Analytics Lab instead of a TCP subject.
Mrs.M.Punithavathi	• Suggested to include the following domain related subjects if possible: o Optimization Techniques o Reinforcement Learning o Advanced Big Data Analytics o Recommendation Systems o Cloud Computing for Data Science o Generative AI o AutoML o Ethical and Responsible AI

009.05.00: Vote of Thanks

The meeting ended with the Vote of Thanks by HOD Dr.R.Aghila, Professor, Department of Artificial Intelligence and Data Science, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordinator

HoD - ADS

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S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Artificial Intelligence and Data Science

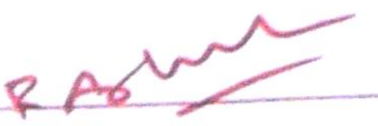
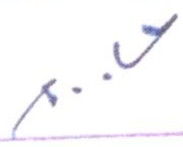
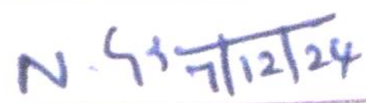
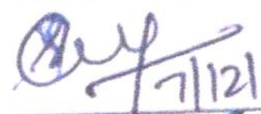
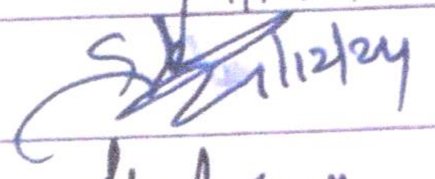
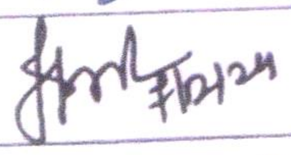
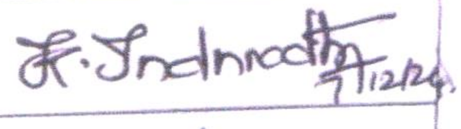
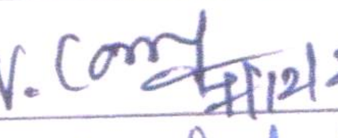
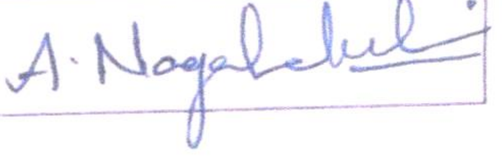
Ninth BoS Meeting Members

Date : 07.12.2024 (Saturday)

Time: 12 Noon

Venue: ADS Smart Class Room/Teams

S. No.	Capacity	Name of the BoS Member	Designation and Address	Signature
1	Anna University Nominee	Dr.P. Chitra	Professor& Head, Department of Computer Applications, Thiagarajar College of Engineering,Madurai.	
2	Academic Council Nominee	Dr.S.R.Balasundaram	Professor, Department of Computer Applications, National Institute of Technology, Trichy.	Online
3	Academic Council Nominee	Dr.N.Radha	Associate Professor, Department of Information Technology, SSN College of Engineering, Chennai.	
4	Industrialist	Mr.U.Shunmugam	Vice President-Products, Chainsys, Madurai.	
5	Alumni	Ms.M.Punithavathi	Senior Software Quality Engineer, CK-12 Software & Tech Pvt Ltd, Bangalore.	Online

Internal Faculty Members of BoS			
Sl. No.	**Name of the Faculty**	**Designation**	**Signature**
1.	Dr.R.Aghila	Professor & HOD	
2.	Dr. P.Praveen Kumar	ASP & Programme Coordinator	
3.	Mrs.N.Gajalakshmi	AP	
4.	Mrs.S.Nithya	AP	
5.	Mr.P.G.Siva Sharma Karthick	AP	
6.	Mrs.R.Indhuja	AP	
7.	Mrs.K.Indhumathi	AP	
8.	Mrs.V.Sangeetha	AP	
9.	Mrs.A.Nagalakshmi	AP	

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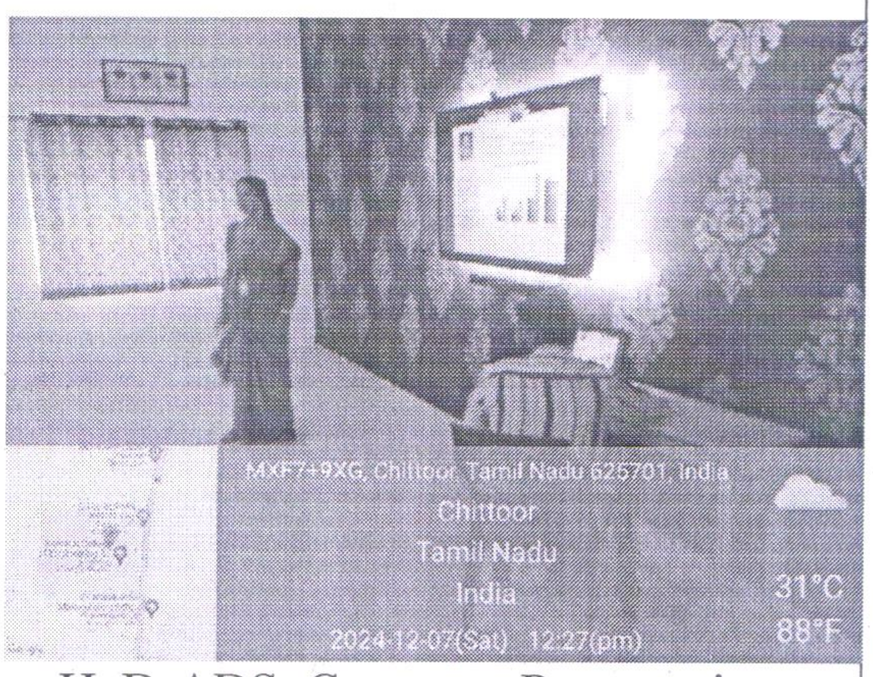
Department of Artificial Intelligence and Data Science

9th Board of Studies Meeting (Hybrid Mode)

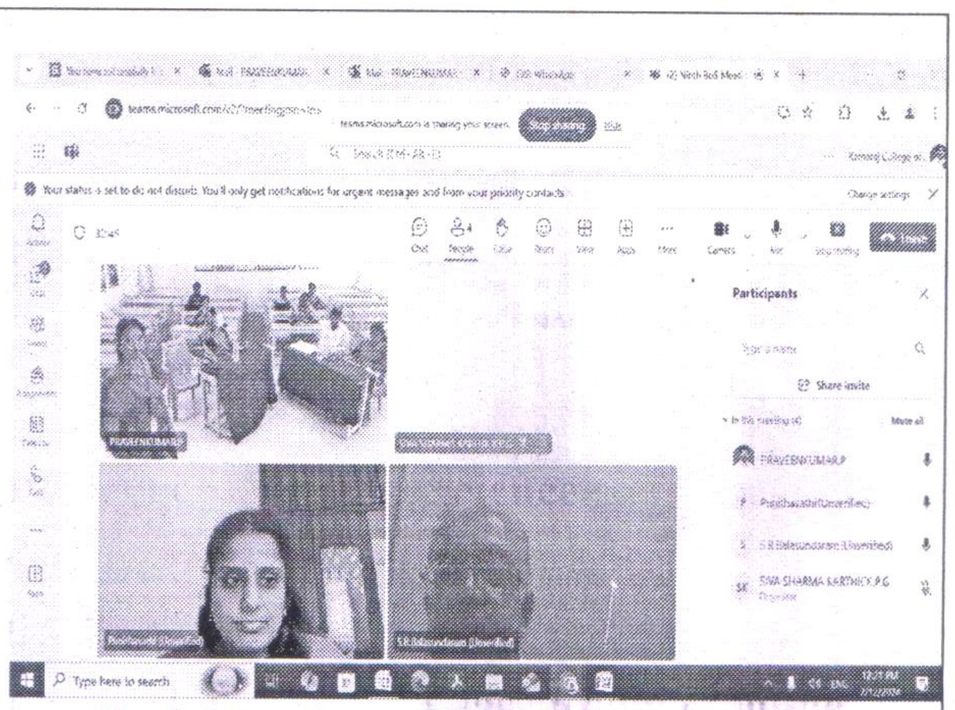
AY: 2024-2025

Date: 07.12.2024 **Time: 12.00 Noon** **Venue: Smart Class Room / Online**

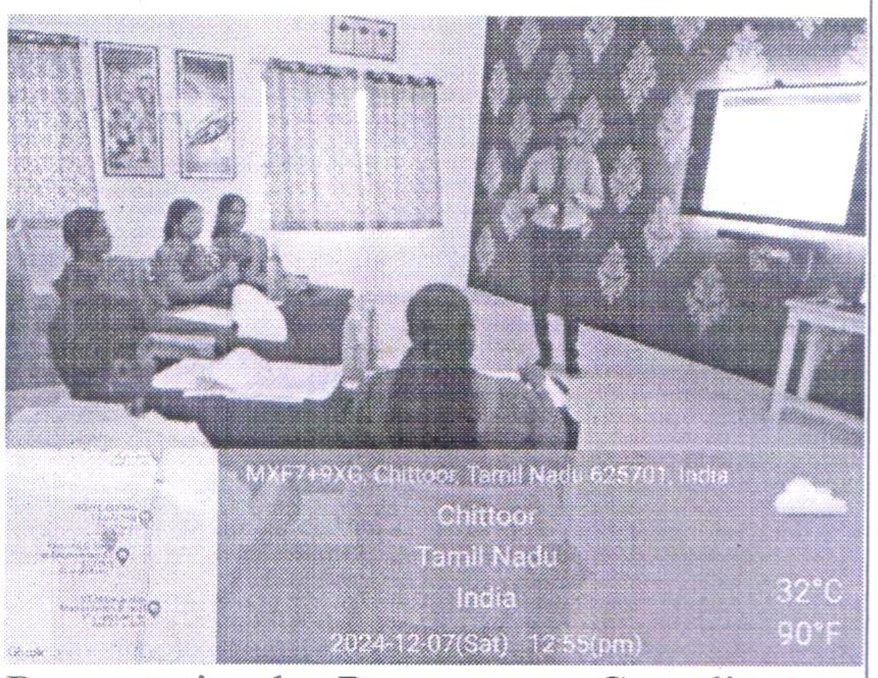
PHOTOS



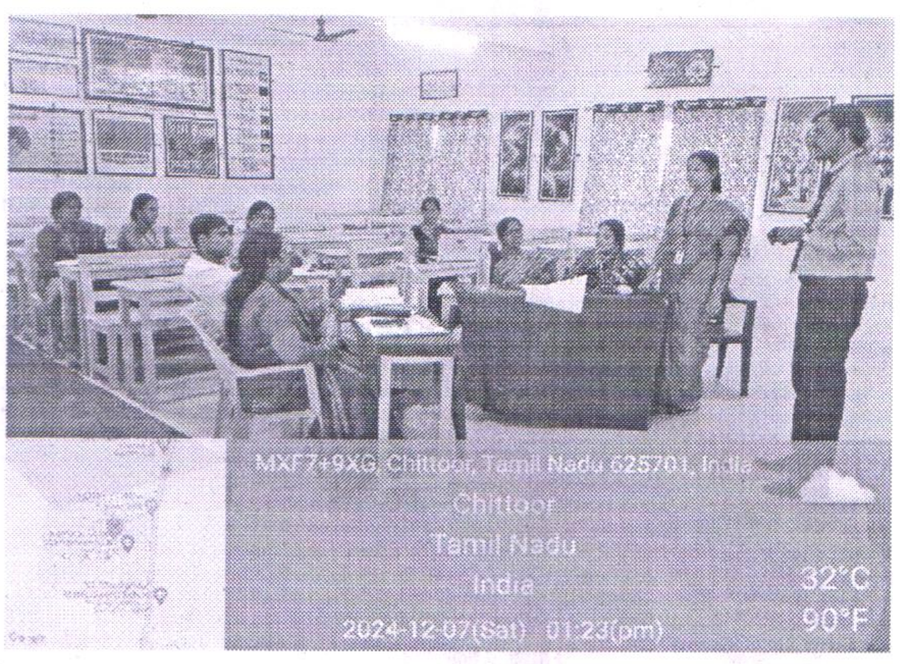
HoD-ADS, Convener Presentation



BoS Members Online Participation



Presentation by Programme Coordinator



BOS Members Interaction

Programme Coordinator

HoD-ADS